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2023 Groundwater Sampling Summary & Update
Former Willow Run Powertrain Plant
MID 980 587 893
Ypsilanti, Michigan

Dear Ms. Lesser:

On behalf of Revitalizing Automotive Communities Environmental Response Trust (RACER), GHD Services Inc. (GHD) has prepared this letter to provide a summary of the work completed as part of the ongoing Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) at the former Willow Run Powertrain site (Site) in Ypsilanti, Michigan. The Site location is detailed on Figure 1. This letter presents the 2023 groundwater quality results and an evaluation of perimeter groundwater including recommendations.

1. Executive Summary

The 2023 groundwater monitoring was completed around the perimeter of the Site (three-year annual groundwater monitoring program) and in the known tetrachloroethene (PCE) Area. Groundwater surface water interface (GSI) is the applicable potential pathway of concern that is being monitored due to down gradient Tyler Dam Drain and storm sewers adjacent to the property boundary that could be a potential migration pathway to the Tyler Dam Drain.

Volatile organic compound (VOC) exceedances are generally associated with the known PCE Area, with the exception of vinyl chloride at two isolated locations. No semi-volatile organic compound (SVOC) exceedances of GSI criteria were identified in 2021 or 2022 (therefore, SVOCs were removed from the 2023 sampling program) and metals exceedances have been sporadic over the three-year monitoring period. These impacts continue to be sporadic, inconsistent, and limited in scope at the Site, and are not indicative of a consistent or continuous plume of impacted groundwater.

The groundwater collection system was not operating and had not been pumping for over a year prior to the 2023 sampling event. The 2022 and 2023 groundwater data along the French drain suggests that discontinuation of the pumping will not be problematic. The groundwater collection system will remain off for the remainder of the 2024 calendar year and the foreseeable future. This “nonoperation” period will allow RACER to continue evaluation of Site conditions without active controls.

Based on the results of the 2021 through 2023 annual sampling program (three-year annual groundwater monitoring program), no regular sampling is proposed going forward, except the continued evaluation of the

PCE Area, which will be completed separately. Resampling for thallium due to unexpected 2023 results is recommended.

2. Background

Since 1984, numerous groundwater sampling programs have been completed at the Site. Many were limited to specific areas of investigation in response to several areas of interest (AOI) as discussed in the Comprehensive Groundwater Quality Update Report (GHD, May 2021 Comprehensive Report). Site strategy shifted to an overall sitewide focus as opposed to an individual AOI basis due to the aerial distribution of AOIs, light non-aqueous phase liquid (LNAPL) impacts, and largely inward gradients, further discussed and explained in the Groundwater Interim Measures Workplan (CRA, February 2015).

Between 2013 and 2018 several redevelopment related activities were completed that resulted in changes to the groundwater levels and localized flow direction. Annual monitoring of the groundwater levels have shown that stabilization post major redevelopment activities has occurred. A groundwater collection system was installed in 2017 and operated from 2018 to 2021 along the southeast property boundary with the Willow Run Airport. Following review of the data collected over that period from the drain and subsequent offsite groundwaters sampling data, this system will remain off for the 2024 calendar year and foreseeable future to evaluated Site conditions without active controls.

As part of the ongoing RCRA Corrective Action at the Site, GHD implemented a three-year annual groundwater monitoring program which was originally proposed in the May 2021 Comprehensive Report (Table 1), of which 2023 was the last sampling event. The sampling program was designed to assess the stability of chemicals of concern (COCs) at the three downgradient perimeter areas of the Site, shown in Figure 2. Site COCs identified in the May 2021 Comprehensive Report included VOCs, SVOCs, and metals, as listed in Table 1. No SVOC exceedances of GSI criteria were identified in 2021 or 2022 and were removed from the list of COCs during the 2023 sampling event.

Additionally, groundwater sampling associated with continued monitoring of the PCE Area (Figure 1), an area impacted by PCE, was completed concurrently during the 2023 event. Table 2 shows the groundwater sampling program for the PCE Area. This sampling plan was presented to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) in the Interim Measures Work Plan – PCE Area Memorandum (GHD, April 2018), and amended as needed. An evaluation report for the PCE Area will be submitted under separate cover.

2.1 Objective

The purpose of this letter is to provide the results and analysis of the 2023 groundwater monitoring event, evaluate the overall three-year sampling program, and update recommendations from the May 2021 Comprehensive Report.

2.2 Letter Outline

This letter is organized in the following sections:

- Section 3: Site Hydrogeology and Relevant Pathways
- Section 4: 2023 Groundwater Sampling Event
- Section 5: Evaluation of Analytical Results from 2021-2023
- Section 6: Recommendation Updates from 2021 Comprehensive Report
- Section 7: Summary
- Section 8: References

3. Site Hydrogeology and Relevant Pathways

3.1 Site Hydrogeology

The geology underlying the Site consists of three groundwater zones (shallow, intermediate, and deep) separated by clay as shown on a generalized cross section on Figure 3. The groundwater zones are as follows:

- Shallow Zone – Consists of fill and native soils, predominantly poorly graded “clean” sand and silty sand. Is typically 8 to 12 feet (ft) thick across the Site; thicker beneath the eastern portion of the former building footprint (up to 16 ft) and thinner to the south of the former building footprint (as little as 5 ft).
- Intermediate Zone – Consists predominantly of silty sand. Is thickest in the southwestern areas of the Site (up to 8 ft) and gradually thins to the north and east. Interpreted to be absent beneath the northeastern and eastern area of the Site. The shallow and intermediate zones are often hydraulically connected on-Site since the clay unit between them is thin (typically 2 to 5 ft) and it is often penetrated by historic anthropogenic features associated with the Powertrain Plant such as pits, steam tunnels and storm sewers.
- Deep Zone – Consists of layered silt and silty clay with silt typically comprising 40 to 80 percent of the unit. At the Site, the unit is discontinuous with a thickness ranging from 0 to 12.5 ft. The deep zone occurs at a depth of about 70 ft and where present on-Site is overlain by 47 to 62 feet of a regionally extensive clay unit. It is therefore not hydraulically connected to the shallow or intermediate zones.

A detailed description of the hydrogeology is provided in the Resource Conservation and Recovery Act Facility Investigation (RFI) Report (CRA, 2013).

3.2 Relevant Pathways and Screening Criteria

Consistent with the May 2021 Comprehensive Report, the 2023 analytical data was screened against EGLE Part 201 Generic Cleanup Criteria, as amended. Criteria are provided for Residential and Non-Residential Drinking Water (RDW, NRDW), GSI, Residential and Non-Residential Groundwater Volatilization to Indoor Air (RGVII, NRGVII), Water Solubility (WS), and Flammability Explosivity Screening Level (FESL).

In the figures and tables presented in this summary all screening criteria exceedances are noted. However, only the GSI, NRGVII (existing buildings only/off-Site), WS and FESL criteria are relevant. The other criteria are not relevant, or pathways are incomplete for the following reasons:

- RDW/NRDW: On-Site deed restrictions limit use to non-residential and prohibit use of groundwater for drinking or irrigation. Off-Site the RDW and NRDW pathways are incomplete because there are no drinking water wells in the near downgradient area and the area is served by a public water supply.
- RGVII: On-Site deed restrictions limit use to non-residential, require the VI pathway to be evaluated or mitigation methods installed prior to new structures being built. Off-Site the RGVII pathway is incomplete because there are no residential properties in the near downgradient area.
- NRGVII: Applicable Off-Site; On-Site only at existing YAM building and potentially at the maintenance building west of the PCE Area. On-Site deed restrictions require the VI pathway to be evaluated or mitigation methods installed prior to new structures being built. If further VI evaluation is needed, it will be conducted and reported separately.

Part 201 permits Facility-Specific Background Concentrations (FSBCs) to be used instead of the generic criteria for some constituents (those footnoted “B”). GHD calculated FSBCs in accordance with methods specified in the “S³TM”¹ for the permitted metals (aluminium, barium, cadmium, chromium III, copper, iron, lead, magnesium, manganese, nickel, selenium, silver, thallium, and zinc). The FSBCs calculated for aluminium, iron, lead, and manganese were utilized as they were greater than one or more of their

¹ S³TM: Sampling Strategies and Statistics Training Materials for Part 201 Cleanup Criteria, Michigan Department of Environmental Quality, 2002.

corresponding Part 201 generic criteria. The FSBCs calculated for the remaining metals were less than or equal to their lowest Part 201 criteria and therefore were not used. These calculations are presented in the May 2021 Comprehensive Report.

4. 2023 Groundwater Sampling Event

This Section provides a summary of the PCE Area and annual groundwater sampling completed at the Site in May 2023.

4.1 Scope of Work

GHD completed groundwater sampling of 58 monitoring wells between May 11th and May 17th, 2023, using low flow purging (LFP) and sampling methods. Monitoring well locations are presented on Figure 4 and were sampled as part of the three-year annual groundwater monitoring program proposed in the May 2021 Comprehensive Report, and to evaluate the PCE area as proposed in the April 2018 work plan. Locations proposed included as part of the three-year annual program are listed in Table 1. Monitoring wells in the PCE Area are sampled to monitor concentrations in this area of known impact, several of which overlap with the three-year annual monitoring program, are listed in Table 2. Table 3 provides a field sample key of groundwater and quality control samples collected in May 2023, and the corresponding sample locations.

Changes to the sample locations proposed in Table 1 due to various field conditions in May 2023 include:

- CRA-604M and GHD-1197M had less than 8" of water in the well and could not be sampled.
- The four sumps and MH-102 were not sampled as the French drain groundwater collection system had not been pumping since October 2021.

One groundwater sample was collected from each well following completion of LFP procedures and analyzed for VOCs and Metals, with the exception of eleven wells, which were only analyzed for VOCs as part of the PCE Area monitoring. If the turbidity in a stabilized monitoring well was not below 5 NTU at the conclusion of LFP efforts, an additional dissolved metals sample was collected and field filtered. Upon completion of sample collection, samples were immediately stored in an insulated cooler with ice, and coolers were subsequently submitted to Eurofins Environment Testing for laboratory analysis using standard chain-of-custody protocols.

The groundwater samples collected from GHD-1213M and GHD-1214M, were collected from beneath LNAPL measured in the well during the fluid level monitoring event completed in May 2023. The samples were collected by inserting dedicated tubing through the LNAPL layer while pushing air down through the tubing via a peristaltic pump, and then leaving the tubing in place overnight to allow the fluid inside the monitoring well to settle.

Quality Assurance/Quality Control (QA/QC) samples included three matrix spike/matrix spike duplicates (MS/MSD) (GHD-1209M, CRA-729I, GHD-1213M), and three duplicates (from CRA-106, CRA-740M, CRA-827ML). These samples were collected in accordance with the current Site Quality Assurance Project Plan presented in the 2012 *RCRA Facility Investigation Work Plan*.

4.2 Site Conditions During Sampling Event

4.2.1 Groundwater Flow Direction

Results from the May 2023 fluid level monitoring event demonstrate that shallow and intermediate groundwater level and flow direction are consistent with previous years and have stabilized since initiation of structure demolition and various remedial measures, including storm sewer closures and installation and operation/non-operation of the French drain. The 2023 groundwater levels results were presented to EGLE in a September 12, 2023 letter (GHD, 2023).

Shallow Zone Groundwater Flow

The shallow zone groundwater contours and flow direction collected during the May 2023 monitoring well fluid level collection event are presented on Figure 5.

Groundwater from the central and eastern area of the Site flowed primarily toward the east and southeast toward the Willow Run Airport property. Although the groundwater collection system (French drain) has been off for over a year and a half, contours still show a relatively steep slope toward the downgradient property boundary, which is consistent with pre-French drain installation.

Groundwater underlying the western area of the Site appears to flow from the north toward the area of CRA-623M and disperses to the west, east and south. Higher relative groundwater elevations have been observed in CRA-623M, historically, and this groundwater pattern is generally consistent with past observations for this portion of the Site.

Groundwater underlying the southern area of the Site appears to have remained generally consistent with past observations for this portion of the Site. Groundwater elevations were similar in all three years where measurements were taken. Several wells that could not be located in 2022 due to redevelopment activities or operations at the Site, were measured in 2023 which led to slightly different localized groundwater contours.

Groundwater flow patterns, when compared to May 2021 and 2022 data, appear relatively similar in flow direction and gradient across the majority of the Site. Year-to-year comparisons reveal limited changes in groundwater elevations across the Site. Accounting for seasonal fluctuations, groundwater elevations are relatively similar, indicating stable conditions in the shallow groundwater zone.

Intermediate Zone Groundwater Flow

The intermediate zone groundwater contours collected during the May 2023 monitoring well fluid level collection event are presented on Figure 6.

Groundwater in the intermediate groundwater zone flowed from the central area of the Site to the east toward the French drain and the Willow Run Airport. Groundwater in the north, west, and southwest areas of the Site flowed toward the Tyler Dam Drain. This occurs via venting to the Perimeter Storm Sewer in the west and via groundwater flow toward Airport Road to the southwest.

Groundwater direction and flow patterns in May 2023 are nearly identical to the flow patterns of May 2021 and 2022. Historical comparisons also reveal similar groundwater elevation and flow patterns. Year-to-year comparisons reveal limited changes in groundwater elevations across the Site. Accounting for seasonal fluctuations, groundwater elevations are relatively similar, indicating stable conditions in the intermediate groundwater zone.

4.2.2 Groundwater Collection System Operation

The groundwater collection system was turned off in October 2021 to allow the property owner to conduct utility repairs under high water table conditions. The groundwater collection system was not pumping at the time of the 2023 sampling event and had not been for over a year. The 2023 sampling results are therefore indicative of groundwater concentrations without active controls at the property boundary.

4.3 2023 Groundwater Analytical Results

This Section presents the results of the May 2023 groundwater sampling efforts, including the annual and PCE Area sampling programs in a consistent manner with the 2021 and 2022 results.

Table 4 presents a summary of the groundwater analytical results for Site COCs collected during the 2023 sampling event. Laboratory analytical reports and corresponding chains of custodies are available upon request.

For historical reference and data comparison purposes, Table 5 provides a summary of the 2021, 2022, and 2023 annual and PCE Area groundwater analytical results as part of this three-year sampling program. Table 5 also provides 2018 and 2020 historical analytical data for the relevant monitoring wells.

Figures 7a through 7f provide a visual representation of groundwater concentrations versus GSI criteria near the property boundary, as this is the most relevant potential pathway. Each figure presents the data for a constituent that exceeded EGLE Part 201 GSI criteria. Groundwater concentrations that exceed the non GSI criteria are noted by superscripts on the figures, while the red and green colours represent the concentrations relative to the GSI criteria.

- Figure 7a – Tetrachloroethene
- Figure 7b – Trichloroethene
- Figure 7c – cis-1,2-dichloroethene
- Figure 7d – Vinyl Chloride
- Figure 7e – Arsenic
- Figure 7f – Chromium, Copper, Thallium, and Vanadium

4.3.1.1 Constituents Exceeding Relevant Criteria (GSI, NRGVII, WS, FESL)

This section primarily discusses exceedances of GSI criteria, the only relevant criteria exceeded during the 2023 groundwater sampling event. GSI criteria exceedances occurred in VOCs (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, vinyl chloride) and metals (arsenic, chromium, copper, thallium, and vanadium).

- Tetrachloroethene (Figure 7a): Concentrations exceed GSI criteria (0.06mg/L) near the PCE area in monitoring wells CRA-106M (1.8mg/L, 1.6mg/L (DUP)), CRA-859M (1.5mg/L), GHD-1134M (18mg/L), GHD-1145M (6.1mg/L), and GHD-1151M (82mg/L).
- Trichloroethene (Figure 7b): Concentrations exceed GSI criteria (0.2mg/L) near the PCE area in monitoring wells CRA-106M (0.25mg/L, 0.24mg/L (DUP)), GHD-1134M (1.6mg/L), and GHD-1151M (3.2mg/L).
- Cis-1,2-dichloroethene (Figure 7c): Concentrations exceed GSI criteria (0.62mg/L) near the PCE area at monitoring wells CRA-106M (0.87mg/L, 0.88mg/L (DUP)), GHD-1134M (1.6mg/L), and GHD-1151M (4.1mg/L).
- Vinyl chloride (Figure 7d): Concentrations exceed GSI criteria (0.013mg/L) at the following locations:
 - In the PCE area and immediately east on the PCE area in monitoring wells CRA-061M (0.024mg/L), CRA-106M (0.051mg/L, 0.044mg/L (DUP)), CRA-806M (0.028mg/L), GHD-1220M (0.014mg/L), GHD-1223M (0.023mg/L) and GHD-1229M (0.26mg/L).
 - Several wells within the PCE Area were non detect for vinyl chloride but the reporting limit and method detection limit were above the GSI criteria. These locations are noted on Figure 7d.
 - In the southwest corner of the Site in monitoring well CRA-729I (0.04mg/L).
 - In the southeast corner of the Site in monitoring well CRA-974M (0.042mg/L).
- Arsenic (Figure 7e): Concentration exceed GSI criteria (0.01mg/L) at isolated locations including:
 - The east side property boundary (downgradient of French Drain) in monitoring wells CRA-827ML (0.024mg/L, 0.021mg/L (DUP)), CRA-837ML (0.021mg/L) and GHD-1005M (0.029mg/L).
 - The PCE area in monitoring well CRA-106M (0.011mg/L). The duplicate sample was below the GSI criteria with a result of 0.0096mg/L.
 - the southern corner of the Site in monitoring wells CRA-889M (0.016mg/L) and CRA-890I(D) (0.05mg/L)

- the southwest corner of the Site in monitoring wells CRA-729M (0.032mg/L), CRA-740I (0.013mg/L), CRA-740M (0.063mg/L, 0.066mg/L (DUP)), and GHD-1196I (0.011mg/L).
- Chromium, copper, thallium, and vanadium (Figure 7f), exceedances at isolated locations including:
 - Chromium: Concentrations exceed GSI criteria (0.011mg/L) at one monitoring well, CRA-729M (0.021mg/L) at the southwest corner of the Site.
 - Copper: Concentrations exceed GSI criteria (0.029mg/L) in the total metals sample at one monitoring well, CRA-740M (0.03mg/L, 0.031mg/L (DUP)) at the southwest corner of the Site but was below the GSI criteria in the filtered sample. A dissolved sample (field filtered) was collected as the turbidity after purging was greater than 5 NTU at 17.9 NTU, consistent with protocols described in Section 4.1. As the field filtered sample is below the GSI criteria, the detection in the total sample is elevated due to particulates in the sample, therefore not representative of groundwater and not an exceedance of criteria.
 - Thallium: Concentrations exceed GSI criteria (0.0037mg/L) at the following locations:
 - three monitoring wells at the southwest corner of the Site, CRA-605M (0.006mg/L), CRA-729I (0.0065mg/L), CRA-740I (0.0069mg/L).
 - six other wells at the eastern corner of the Site, CRA-827ML (0.012mg/L, 0.0058mg/L (DUP)), CRA-974M (0.0042mg/L), GHD-1005M (0.0047mg/L), GHD-1211M (0.0041mg/L), GHD-1212M (0.0052mg/L), and GHD-1213M (0.0051mg/L).
 - Vanadium: Concentrations exceed GSI criteria (0.027mg/L) at two monitoring wells in the southwest corner of the Site, CRA-729M (0.056mg/L) and CRA-740M (0.051mg/L, 0.05mg/L (DUP)) in both the dissolved and total samples.

Three monitoring wells, CRA-729M, CRA-740M, and IG-1, had pH level results outside of GSI criteria for 2023. The table below presents a summary of the monitoring wells with pH measurements outside GSI criteria. IG-1 was installed in concrete backfill of an excavation which accounts for the elevated pH. Groundwater at CRA-729M and 740M have exhibited elevated pH levels in recent years. It is unclear the cause of the elevated pH as the wells are on the southwest side of the Site. The elevated pH levels from the three wells are not observed at downgradient wells.

Monitoring Well	2021 pH	2022 pH	pH Recheck (7/27/2022)	2023 pH
CRA-729M	7.44	9.9	9.51	9.40
CRA-740M	7.32	10.76	9.9	10.78
IG-1	11.48	12.28	10.35	11.21

4.4 Data Validation

A full validation of data sets was not completed; however, reliability of the analytical data is indicated by the following:

- The three duplicate samples (CRA-106M, CRA-740M, and CRA-827ML) were collected and analyzed to check the precision of sampling analytical procedures. Precision of the duplicate samples was measured using relative percent difference (RPD). The RPDs associated with these duplicate samples must be less than 50 percent and if the reported concentrations in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value. All three field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.
- Three MS/MSDs (CRA-729I, GHD-1209, and GHD-1213M) were collected to evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis. Samples are spiked with a known concentration of the analyte of concern and RPD between the

MS and MSD is used to assess analytical precision. The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision except for low recoveries for tetrachloroethene. Results for sample GHD-859M (1500) are estimated due to potential low bias. This well is in the PCE Area where monitoring is ongoing.

- Four trip blanks were submitted to the laboratory for volatile organic compound (VOC) analysis to evaluate contamination from sample collection, transportation, storage, and analytical activities. All results were non-detect for the compounds of interest.
- A different analytical method was inadvertently used for the metals analysis for the groundwater samples during the 2023 event. Method 6020A was used in 2021 and 2022, while method SW846/6010D was used in 2023. The method used in 2023 had higher reporting limits and method detection limits when compared to the method used in 2021 and 2022. Non detect results for metals presented in Table 5 for 2023 are reported at the method detection limit. Non detect results for metals results from 2021 and 2022 are reported at the reporting limit.

For the majority of the metals, the method detection limit was at an acceptable level (i.e.. below the GSI criteria), however, there were two metals (selenium, and silver) that had method detection limits slightly above GSI criteria. The GSI criteria and method detection limits are listed below:

- Selenium: GSI Criteria: 0.005mg/L. Method detection limit: 0.006mg/L.
- Silver: GSI Criteria: 0.0002mg/L. Method detection limit: 0.00062mg/L.

During the three-year annual sampling program, there has only been one detection of selenium from 2022 that exceeded GSI criteria (CRA-613M). There have been no silver detections above GSI criteria during the three-year annual sampling program. Therefore, the 2023 metals results are sufficient for evaluating the Site.

For any sampling events going forward, the analytical method from 2021 and 2022 (6020A) will be utilized to achieve the lower method detection limits.

4.5 Summary of Results

The 2023 groundwater sampling results were generally consistent with the results collected in the 2021 and 2022 annual events, with a few minor exceptions.

A total of four VOC contaminants exceeded relevant GSI criteria in 2021, 2022, and 2023 including tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride. Tetrachloroethene, trichloroethene, cis-1,2-dichloroethene were all confined to the PCE area and the area immediately east in monitoring well CRA-106M, and no exceedances were found in the area along the French drain. Vinyl chloride exceedances of GSI criteria (0.013mg/L) were found near the PCE Area and north of the French drain system near sumps 3 and 4 in three monitoring wells (CRA-106M, CRA-806M, and CRA-974M) with the highest concentrations located at CRA-806M. There was also an isolated detection in CRA-729I in the southwestern corner of the Site that exceeded GSI criteria. These results are consistent with the 2021 and 2022 data, with an exception for the exceedances in two wells in the PCE area (GHD-1223M and CRA-061M) that did not previously show exceedances. The PCE Area is undergoing additional evaluation and next steps will be presented under separate cover.

The 2023 groundwater sampling resulted in sporadic detections of metals over GSI criteria for chromium, copper and vanadium. Arsenic and thallium were detected over GSI criteria (0.01 mg/L and 0.0037 mg/L, respectively) near the area of the French drain/southeast corner of the Site, with other exceedances occurring in isolated locations along the western and southern perimeter of the Site. The 2023 arsenic results are similar to past years. The thallium results are not.

Evidence of VOC, SVOC, and metals impacts continue to be sporadic, inconsistent, and limited in scope at the Site, and recently collected groundwater data is not indicative of a concentrated source area sustaining consistent influence of VOCs, SVOCs, or metals, particularly outside of the PCE area.

In addition to VOC and metals exceedances, there were three monitoring wells that indicated a pH level above the GSI criteria during the 2023 sampling events (6.5-9.0). Two monitoring wells, CRA-729M and CRA-740M, are located in the western portion of the Site and had previous high pH results in 2022. Monitoring well IG-1, located in the PCE area has had a high pH result for all three years (2021-2023). It has previously been reported that the pH in the infiltration galleries in the PCE Area is elevated. This is due to the use of crushed concrete as backfill material in an excavation completed in 2018. The impacted pH area does not extend beyond the backfilled area as indicated by previous pH readings in surrounding wells.

Section 5 provides a discussion and evaluation of the annual sampling event analytical results over the three-year monitoring period.

5. Evaluation of Analytical Results from 2021-2023

This Section summarizes and evaluates the annual groundwater monitoring data collected over the past three years. The PCE Area requires additional evaluation which is being completed concurrently and will be presented under separate cover.

The data collected over the three-year sampling period was evaluated in several ways to assess the stability of the COCs. The evaluation and data presentation includes:

- Summary data tables
- Databox summary figure
- Groundwater concentration figures

Groundwater concentration figures from the 2021 Groundwater Sampling Summary and Update (October 10, 2022) and 2022 Groundwater Sampling Summary and Update (October 25, 2022) are provided in Attachment 1 for reference.

5.1 Data Evaluation

The data set presented in Table 5, used to evaluate groundwater quality, includes groundwater samples collected from the three planned annual sampling events in 2021, 2022, and 2023 as well as historic data back through 2018 for comparison purposes. The data set consists of VOC, SVOC, and metals analytical data from the shallow and intermediate wells in the PCE Area, Site Perimeter, and the groundwater collection system (sumps and MH-102). EGLE Part 201 Generic Cleanup Criteria is included in Table 5, where exceedances are indicated next to each result. Results that exceed the relevant GSI criteria are highlighted. Figure 8 presents a databox figure for monitoring wells that have exceeded GSI criteria from 2021-2023. All screening criteria are presented in the figure legend and exceedances are indicated next to each result. Exceedances to the relevant GSI criteria are highlighted. A summary of concentration trends for VOCs and metals, followed by a discussion of pH observations throughout the three-year period is provided in the following sections.

5.1.1 VOCs

Concentrations of tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene have been stable and below criteria for all monitoring wells except for CRA-106M, located just east of the PCE area. This monitoring well exceeded in the three VOCs listed previously during the three-year period, although concentrations have either decreased or remained stable since 2021. Vinyl chloride GSI exceedances were also observed in CRA-106M, as well as two other wells near the PCE area (CRA-806M and GHD-1229M). Due to the proximity of known contamination in the PCE area, these three monitoring wells will be added to the PCE area well list for further evaluation under separate investigation.

Vinyl chloride GSI exceedances were also observed in two wells outside of the PCE area. Monitoring well CRA-729I, located in the southwest perimeter of the Site, exceeded GSI criteria in all three years, but has

remained stable. Monitoring well CRA-974M, located in the southeast perimeter of the Site, also exceeded GSI criteria in all three years but has decreased significantly since 2021. Downgradient wells in both areas have been non detect or below GSI criteria during the three-year monitoring event. Due to the isolated nature of GSI exceedances in these two wells and the downgradient results meeting GSI criteria, no further monitoring is recommended.

5.1.2 Metals

Sitewide GSI exceedances for metals (arsenic, chromium, copper, selenium, thallium, and vanadium) have generally been sporadic and inconsistent throughout the three-year period, with the exception of arsenic.

GSI exceedances occurred for chromium (CRA-729M), copper (GHD-1226M, CRA-740M), selenium (CRA-613M), and vanadium (CRA-740M, CRA-729M), however due to the isolated nature of these exceedances, no significant risk is observed and no further monitoring is recommended.

Arsenic GSI exceedances were observed in fifteen monitoring wells over the three year period. Along the eastern property boundary, the arsenic GSI exceedances are sporadic and inconsistent over time, indicating that no significant offsite migration of impacts is present, and no further monitoring is recommended. While arsenic GSI exceedances are present over the three year period in the southwest (CRA-740M/I, CRA729M), downgradient wells do not show arsenic exceedances of GSI (604M/I, 605M), and no further monitoring is recommended. Along the southern property boundary GSI exceedances of arsenic are stable or decreasing, therefore no further monitoring is recommended.

Thallium concentrations exceeding GSI criteria were observed in nine wells in 2023 only and were not observed in the previous sampling years. Three wells in the southwest area of the Site (CRA-605M, CRA-729I, and CRA-740I) indicated exceedances for GSI criteria, while adjacent and downgradient wells (GHD-604I/M, GHD-1196M/I) did not. Thallium GSI exceedances were also found in six monitoring wells in the southeast perimeter of the Site (CRA-827ML, CRA-974M, GHD-1005M, GHD-1211M, GHD-1212M, and GHD-1213M). It is unclear why thallium concentrations were elevated in 2023, site conditions are stable (no significant changes). Due to the nature of the thallium detections seen during the 2023 sampling event and the use of a different analytical method, wells that had thallium concentrations above GSI criteria will be resampled to confirm the results. Table 6 provides the updated proposed sampling list and rationale.

5.1.3 pH Discussion

Several monitoring wells indicated a pH above or below the GSI criteria during the 2021, 2022, and 2023 sampling events (6.5-9.0). These monitoring wells are shown in the table below, where bolded results indicate exceedances in GSI criteria:

Monitoring Well	2021 pH	2022 pH	pH Recheck (7/27/2022)	2023 pH
CRA-729I	6.46	7.41		7.41
CRA-729M	7.44	9.9	9.51	9.40
CRA-740M	7.32	10.76	9.9	10.78
CRA-827ML	6.21	6.98		7.27
CRA-837ML	6.03	6.97		6.87
CRA-890I(D)	7.39	6.49		6.51
GHD-1212M	6.14	6.98		7.33
GHD-1215M	6.12	6.82		6.86
IG-1	11.48	12.28	10.35	11.21

Five monitoring wells were below GSI criteria in 2021, but not in 2022 or 2023. Four of these wells (CRA-827ML, CRA-837ML, GHD-1212M, and GHD-1215M) are located along French Drain lines 1 and 2 and one well (CRA-729I) is located in the western portion of the Site. One monitoring well, CRA-890I(D), had a pH value below GSI criteria in 2022 in the southern portion of the Site and did not exceed in 2021 or 2022. Two wells located in the western portion of the Site (CRA-729M, CRA-740M) had pH values above GSI criteria in 2022 and 2023. It is unclear what is causing the elevated pH values at these locations.

IG-1, had a pH value well over GSI criteria during the three-year period and is located in the PCE Area. As stated above, it has previously been reported that the pH in the infiltration galleries in the PCE Area is elevated. This is due to the use of crushed concrete as backfill material in an excavation completed in 2018. The impacted pH area does not extend beyond the backfilled area as indicated by previous pH readings in surrounding wells.

6. Recommendation Updates from 2021 Comprehensive Report

The 2021 Comprehensive Report included recommendations for additional work. The longest term of these was the three-year annual sampling program. Each year a letter summarizing that years sampling results and updates to the recommendations was prepared and submitted to EGLE. The 2021 and 2022 summaries were titled 2021 Groundwater Sampling Summary & Update and 2022 Groundwater Sampling Summary & Update submitted on October 10th, 2022 and October 25th 2022, respectively.

This Section presents and summarizes how each of the recommendations has been addressed over the last three years.

Recommendation 1: No action is required for the following areas:

- Interior (Former Building Footprint and Apron)
- Interior (North)
- Perimeter (Northeast)
- Perimeter (North)
- Perimeter (Northwest)

Recommendation 1 was completed per the data review in the 2021 Comprehensive Report. It is listed here for reference.

Recommendation 2: Install two (2) intermediate zone wells in southwest part of Site to (determine if elevated vinyl chloride concentrations are migrating from upgradient in the vicinity of CRA-729).

GHD installed one monitoring well (GHD-604I) in the intermediate zone south of CRA-729I in March 2021. A second intermediate zone monitoring well was to be installed southwest of CRA-729I at soil boring GHD-1235SB. However, there was concern that the 2-1/2" diameter sample hole had been drilled through utility bedding material (possibly associated with a sanitary sewer) and that enlarging the diameter to 8-1/4" for monitoring well installation would risk compromising any infrastructure. Therefore, the intermediate well planned for this location was not installed.

There were no vinyl chloride detections in the 2021, 2022, and 2023 sampling results from monitoring well, GHD-604I and no evidence of migration from upgradient wells was present in the 2021, 2022, and 2023 sampling event results.

At this point additional wells down gradient of 729I are not warranted, as accessibility of the area is limited based on redevelopment in this area and concentrations remain stable across the corresponding area of the Site.

Recommendation 3: Review sampling event results to determine if vinyl chloride, arsenic, and chromium concentrations in the south part of the Site meet generic GSI criteria or preliminary mixing zone GSI values.

As discussed in Section 5, no further monitoring is recommended, outside of the PCE area for vinyl chloride, arsenic and chromium.

Vinyl chloride GSI exceedances were observed in two wells outside of the PCE area, one in the southwest and one in the southeast are of the site. The concentrations at these locations have been steady or decreasing, and downgradient wells in both areas have been non-detect or below GSI criteria during the three-year monitoring event. Due to the isolated nature of GSI exceedances in these two wells and the downgradient results meeting GSI criteria, no further monitoring is recommended outside of the PCE for VOCs.

Arsenic GSI exceedances were observed in fifteen monitoring wells over the three year period. Increasing concentrations were observed in several wells, while downgradient wells did not show increases in concentrations. Along the eastern property boundary the GSI exceedances are sporadic and inconsistent over time. Along the southern property boundary the concentrations are stable or decreasing. The results are not indicative of a consistent or continuous plume of impacted groundwater, therefore further monitoring is not recommended.

Chromium has been detected at concentrations above GSI at one well, one time during the three year period. Due to the isolated nature of this exceedance, no significant risk is observed and no further monitoring is recommended.

Preliminary mixing zone GSI values were not developed for this evaluation.

Recommendation 4: French Drain Lines 1-4 - Determine whether it is feasible to turn off one or more lines of the French drain based on comparison of concentrations in future samples with generic GSI criteria. Building 19 - Continue with investigations related to elevated CVOC concentrations; implement additional remedial measures, as necessary.

The groundwater collection system was initially turned off in October 2021 to allow the property owner to complete utility inspections under high groundwater conditions. The system remains off, and has been depowered as of August 2023. The annual groundwater monitoring data along the French drain does not indicate a need for the groundwater collection system to operate. Localized exceedances of GSI criteria are evaluated in Section 5 of this letter and do not warrant active collection along the property boundary.

Building 19 (PCE Area) is currently being evaluated separately for potential remedial actions in the area. An evaluation summary will be submitted under separate cover.

Recommendation 5: Determine whether there are existing deed restrictions which prohibit groundwater use on adjacent properties including Ypsilanti Township, Insite, and Wayne County Airport Authority (WCAA).

RACER completed a search for deed restrictions on adjacent properties in February 2021. The review included eight properties from the surrounding areas of the Site. The only relevant deed restrictions are on WCAA property east of the South parcel and the land swap parcel which was transferred to WCAA in 2013. These deed restrictions include the Tank Farm area and Tank 22 area. There are also deed restrictions on the former Company Vehicle Operations Site (CVO), however they are not relevant since the shallow and intermediate zone groundwater from the Site does not flow to the south side of Tyler Dam Drain. The property south and southwest of the Site did not have any deed restrictions found during the 2021 review. For additional details regarding the deed restriction search, see Section 4 of the 2021 Groundwater Sampling Summary and Update Letter (GHD, 2022).

Recommendation 6: Remove PCBs from the list of constituents analyzed for in groundwater at the Site

PCBs were not analyzed as part of the 2021-2023 groundwater sampling events.

Recommendation 7: Implement a routine groundwater monitoring program to assess the stability of VOC, SVOC and metals concentrations on the downgradient perimeter of the Site. The program should be completed annually for three years and then discontinued at all locations where there is no risk to human health or the environment. / Develop a routine groundwater monitoring program as a basis for proposing closure of groundwater issues at the Site / It is assumed that the French drain would be operating during the monitoring events.

A routine groundwater monitoring program was developed and implemented over a three-year period from 2021 through 2023. Aside from consistent VOC impacts in the PCE area and minor impacts of vinyl chloride in CRA-729I, CRA-974M, there are no significant VOC trends to note. There were sporadic metals exceedances along the French Drain and southern property boundary as discussed above.

In addition to the VOC and metals trends discussed, a few anomalies of pH levels outside the GSI criteria were observed in three monitoring wells; CRA-729M, CRA-740M, and IG-1, as discussed in section 4.3.3.1.

7. Summary

This letter presents the groundwater sampling data from the 2023 sampling activities, which concluded the final year of the three-year monitoring program. The 2023 results are generally consistent with previous years. GSI is the relevant criteria at the Site due to the potential pathways where storm sewers or downgradient surface water bodies are present offsite. The French drain was not operational during the 2023 sampling event. At this time there is no planned operation of the French drain for the foreseeable future. An additional PCE area evaluation is being completed and will be submitted under separate cover.

As presented in Table 6, additional groundwater sampling for thallium will be conducted to confirm the 2023 results. The metals analytical method from 2021 and 2022 will be used for the additional sampling. A letter will be submitted to present these results.

Based on the review of the 2021-2023 groundwater sampling results, the sampling program has been completed and no ongoing routine groundwater monitoring will be conducted at the Site. Groundwater monitoring over the three-year period has shown low level or no detections for relevant VOCs and metals, and results do not indicate a risk to human health or the environment.

8. References

CRA, 2012. RCRA Facility Investigation Work Plan, Former Willow Run Powertrain Plant, Ypsilanti, MI.

CRA, 2013. Resource Conservation and Recovery Act Facility Investigation Report (RFI), Former Willow Run Powertrain Plant, Ypsilanti, MI.

CRA, February 2015. Groundwater Interim Measures Workplan, Former Willow Run Powertrain Plant, Ypsilanti, MI.

GHD, April 5, 2018, Memorandum to Kevin Lund, Interim Measures Work Plan – PCE Area, Former Plant Engineering Building 19, Former Powertrain Plant, Ypsilanti MI.

GHD, May 2021. Comprehensive Groundwater Quality Update, Former Willow Run Powertrain Plant, Ypsilanti, MI.

GHD, August 2021. Letter to Kevin Lund, Former Willow Run Powertrain Plant, Ypsilanti, MI.

GHD, October 5, 2022. Letter to Ashley Lesser, 2022 Groundwater Level Monitoring update – 2022, Former Willow Run Powertrain, Ypsilanti, MI.

GHD, October 10, 2022. Letter to Ashley Lesser, 2021 Groundwater Sampling Summary & Update, Former Willow Run Powertrain Plant, Ypsilanti, MI.

GHD, October 25, 2022. Letter to Ashley Lesser, 2022 Groundwater Sampling Summary & Update, Former Willow Run Powertrain Plant, Ypsilanti, MI.

GHD, September 12, 2023. Letter to Ashley Lesser, 2023 Groundwater Level Monitoring Update, Former Willow Run Powertrain Plant, Ypsilanti, MI.

Please feel free to contact Grant Trigger, RACER at 313-670-6226 or the undersigned at 248-893-3383 should you require clarification or further information.

Regards,



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LK/lg/LTR-06



Daniel Beck
Project Manager

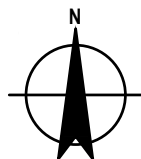
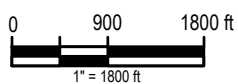
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Grant Trigger, RACER
Beth Landale, GHD

Encl.

Figure 1	Site Location
Figure 2	Groundwater Discussion Areas
Figure 3	Schematic Geologic Cross Section
Figure 4	2023 Groundwater Sampling Locations
Figure 5	Shallow Zone Groundwater Zone – Contours - May 2023
Figure 6	Intermediate Zone Groundwater Zone – Contours - May 2023
Figure 7a	2023 – PCE Groundwater Concentrations
Figure 7b	2023 – TCE Groundwater Concentrations
Figure 7c	2023 – Cis-1,2-DCE Groundwater Concentrations
Figure 7d	2023 – Vinyl Chloride Groundwater Concentrations
Figure 7e	2023 – Arsenic Groundwater Concentrations
Figure 7f	2023 – Chromium, Copper, Thallium, and Vanadium Groundwater Concentrations
Figure 8	Annual Groundwater Results – GSI Exceedances 2021-2023
Table 1	Groundwater Sampling Program: Three-Year Sampling Event (2021, 2022, 2023)
Table 2	Groundwater Sampling Program: PCE Area
Table 3	Field Sample Reference Key – 2023 Groundwater Sampling
Table 4	Groundwater Analytical Results – 2023
Table 5	Groundwater Analytical Results Summary – 2018-2023
Table 6	Additional Sampling Plan
Attachment 1:	Groundwater Concentration Figures – 2021-2022

Figures



**FORMER WILLOW RUN POWERTRAIN PLANT
 YPSILANTI, MICHIGAN**

Project No. 12602792
 Date October 2023

SITE LOCATION

FIGURE 1

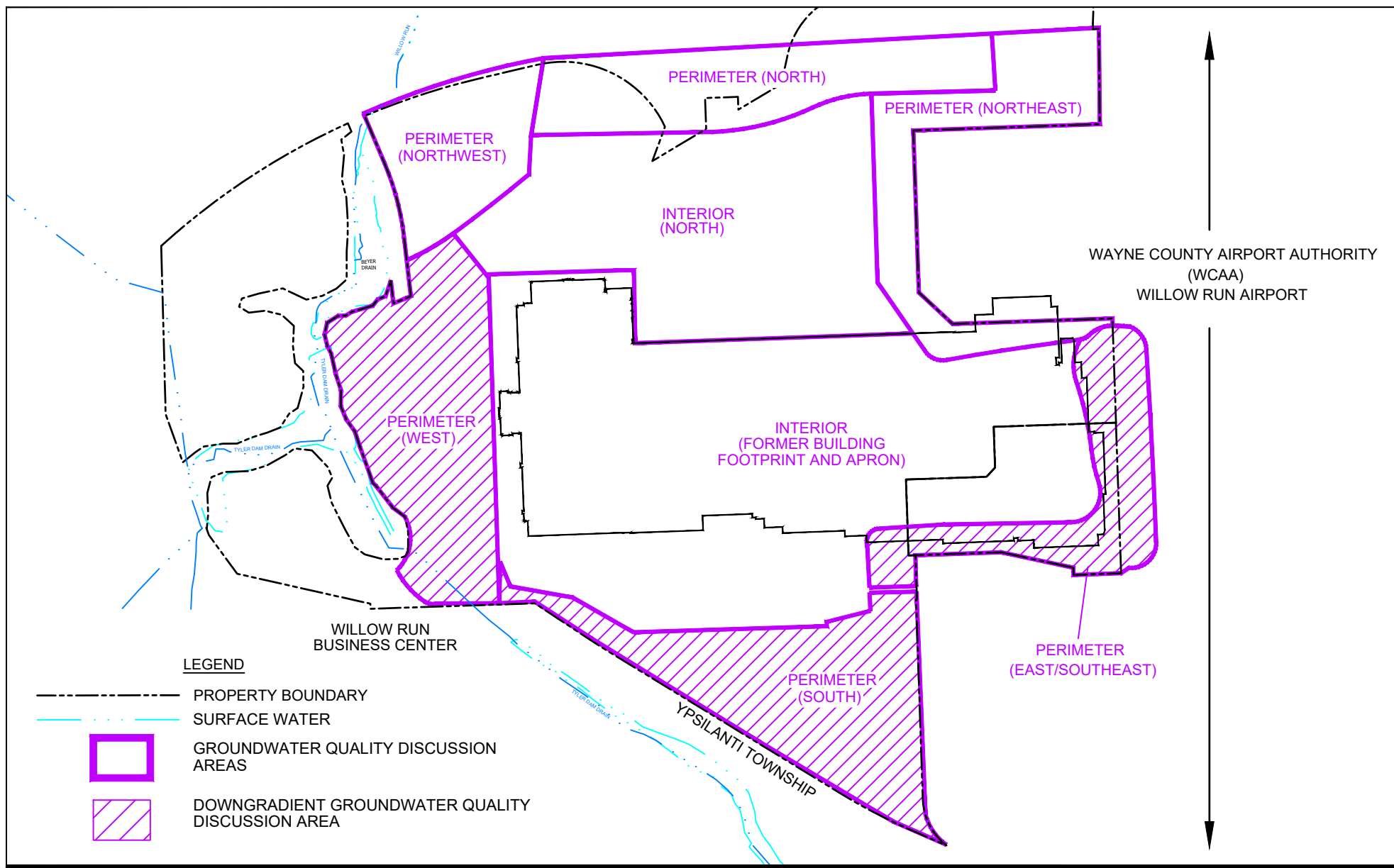
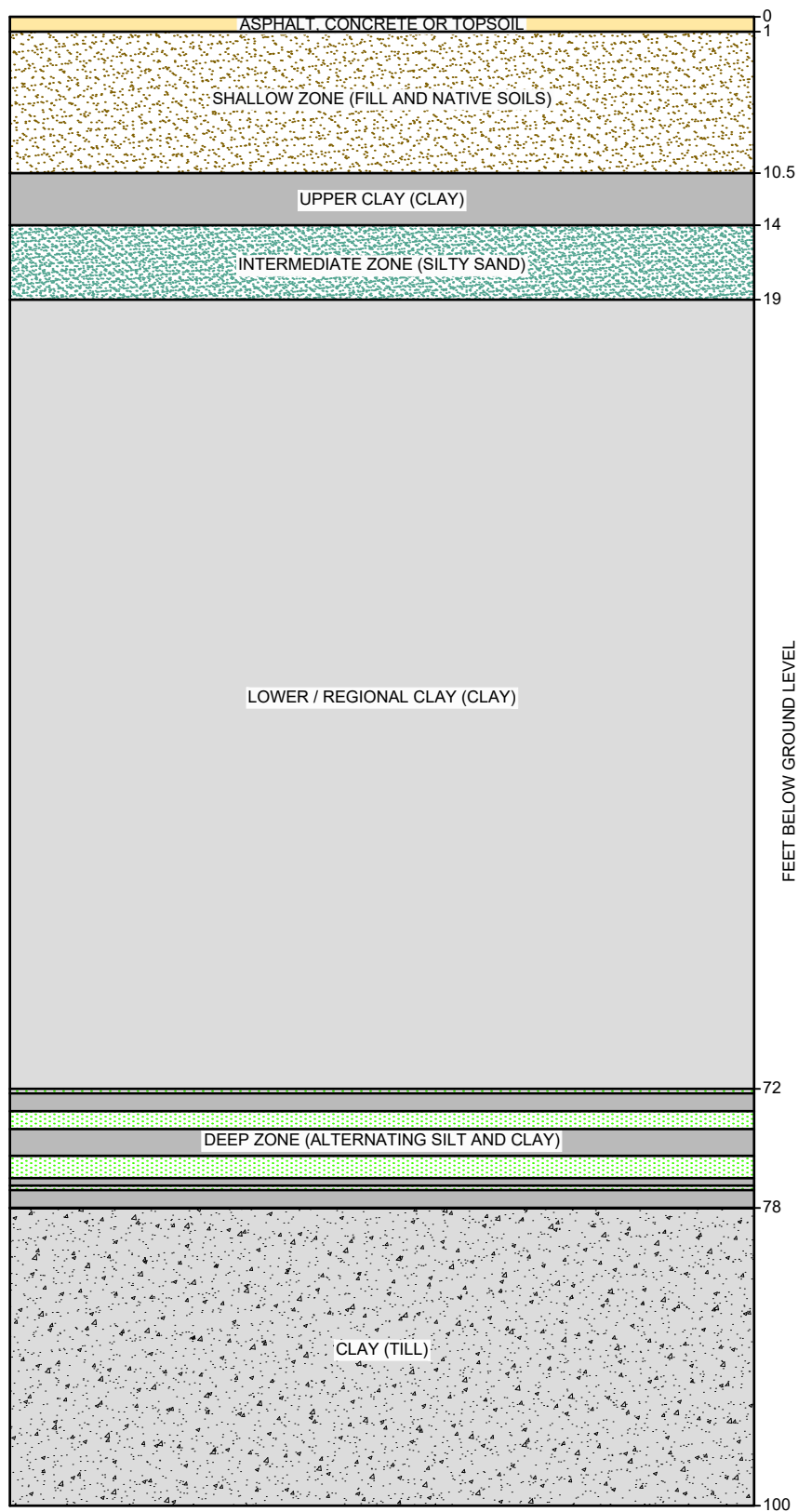


FIGURE 2

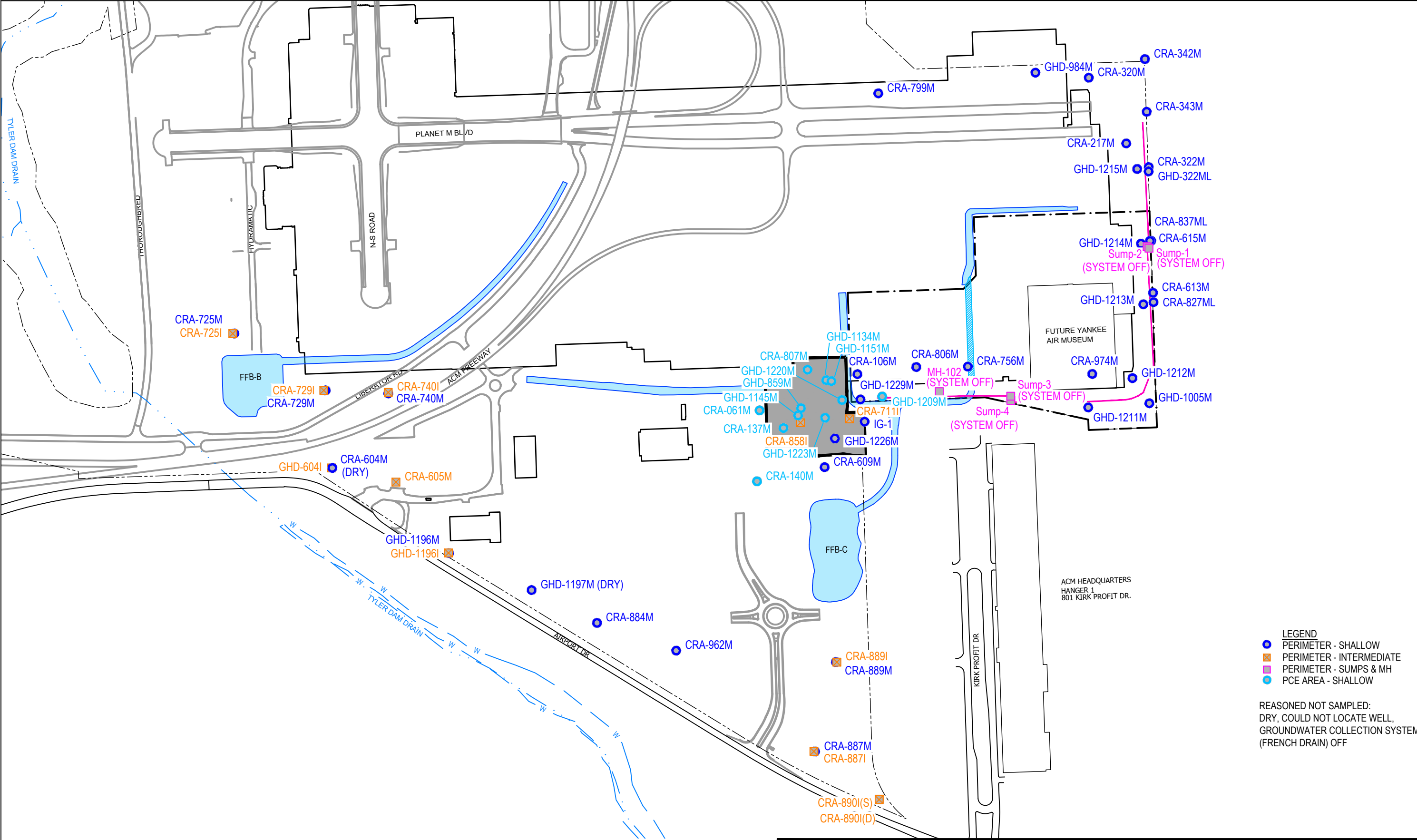


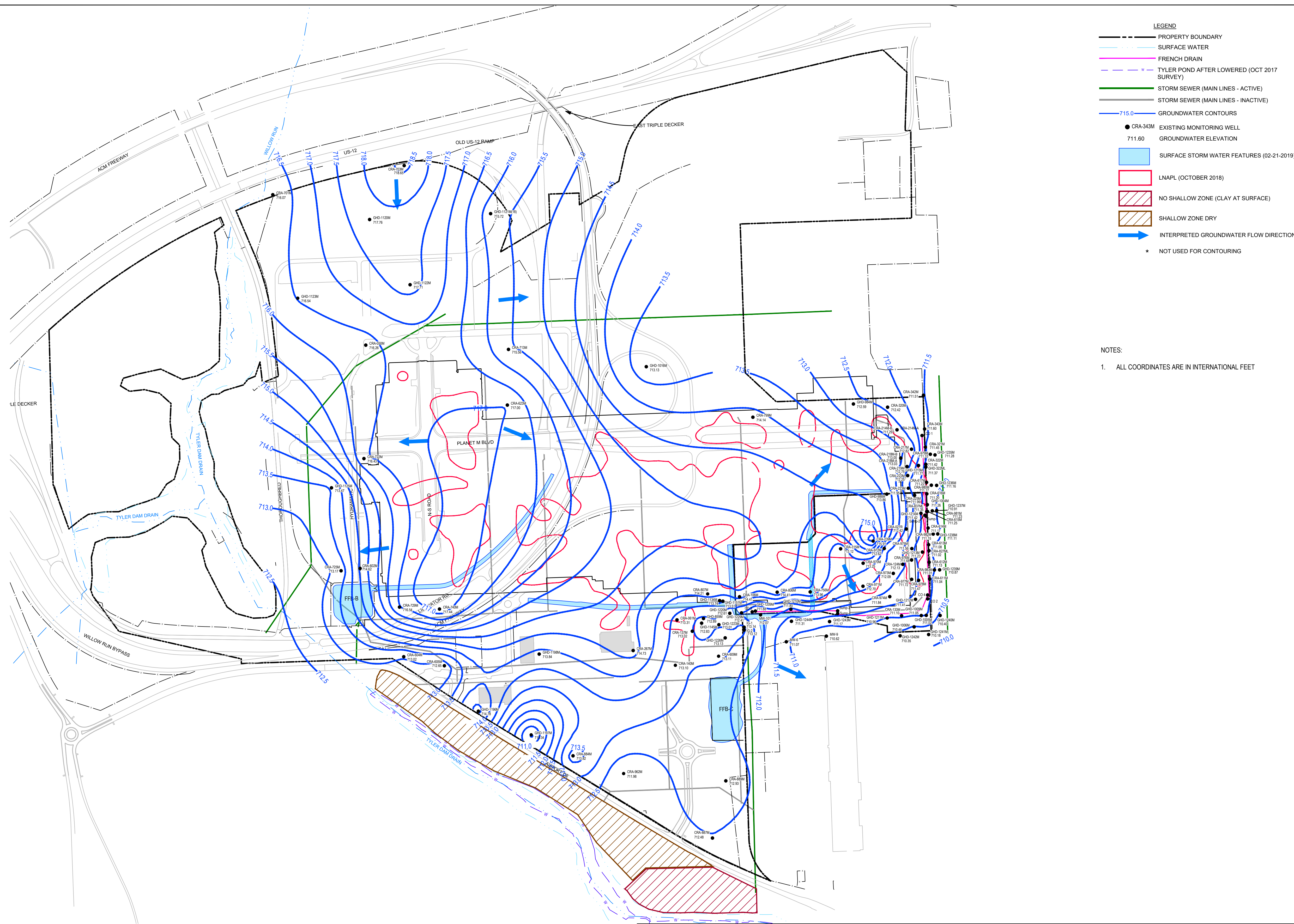
FORMER WILLOW RUN POWERTRAIN PLANT
YPSILANTI, MICHIGAN

**SCHEMATIC GEOLOGIC CROSS-SECTION
2023 GROUNDWATER SAMPLING
SUMMARY**

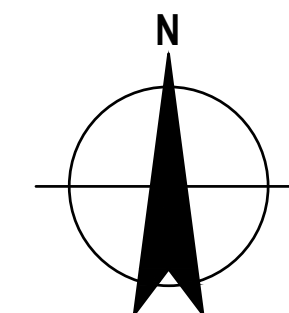
Project No. 12602792
Date October 2023

FIGURE 3





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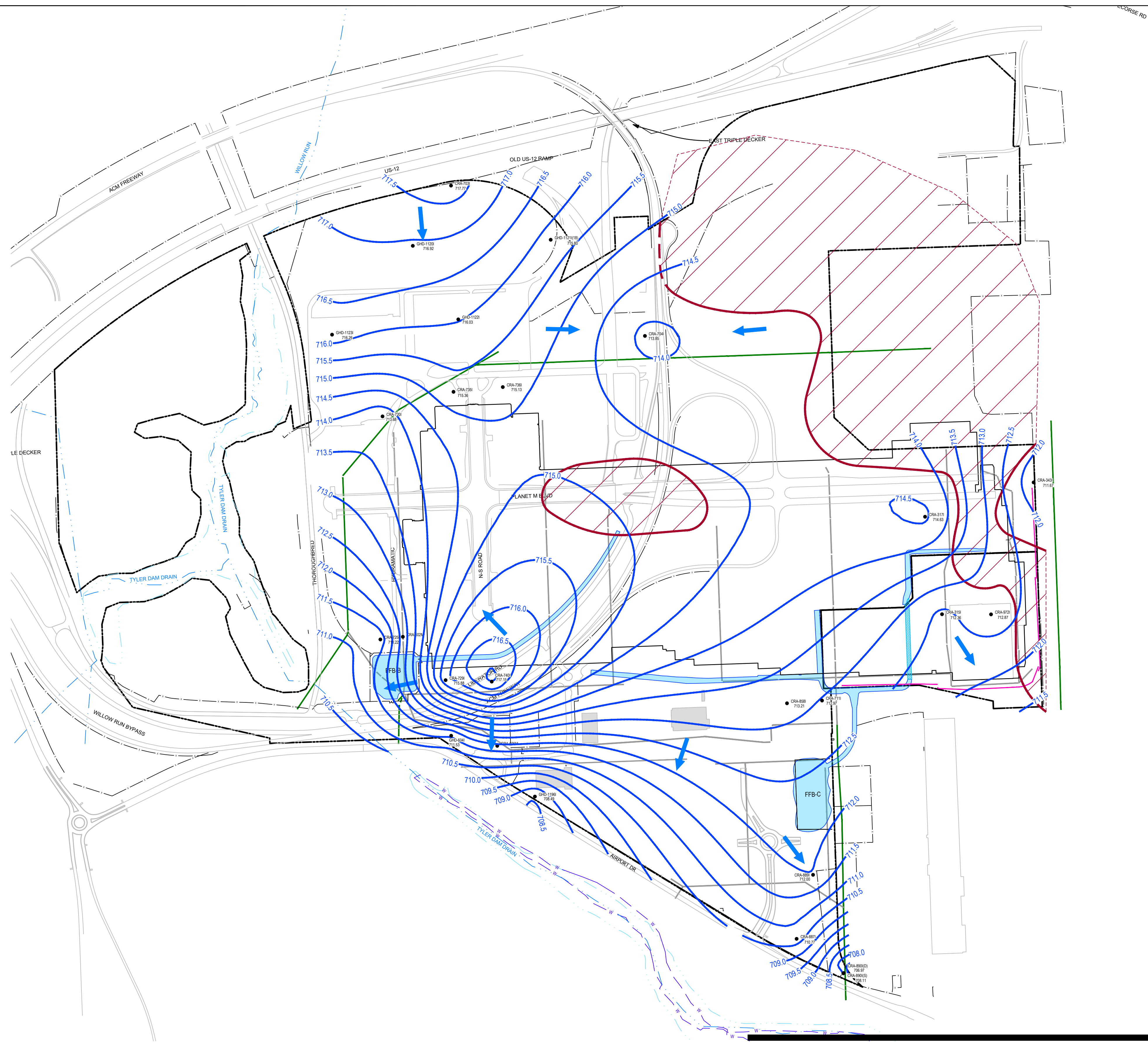


FORMER WILLOW RUN POWERTRAIN PLANT
YPSILANTI, MICHIGAN

SHALLOW GROUNDWATER ZONE
CONTOURS - MAY 2023

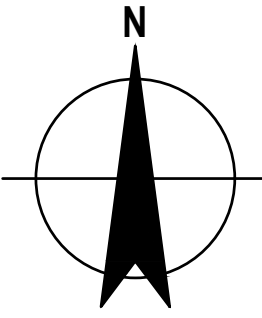
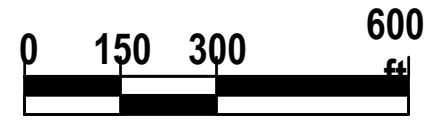
Project No. 12602792
Date October 2023

FIGURE 5



- LEGEND
- PROPERTY BOUNDARY
 - SURFACE WATER
 - FRENCH DRAIN
 - TYLER POND AFTER LOWERED (OCT 2017 SURVEY)
 - STORM SEWER (MAIN LINES - ACTIVE)
 - STORM SEWER (MAIN LINES - INACTIVE)
 - 713.5 GROUNDWATER CONTOUR (FT. AMSL)
 - CRA-343I EXISTING MONITORING WELL
 - 711.67 GROUNDWATER ELEVATION
 - SURFACE STORM WATER FEATURES (02-21-2019)
 - INTERMEDIATE ZONE MAY NOT EXIST
 - INTERPRETED GROUNDWATER FLOW DIRECTION

- NOTES:
- ALL COORDINATES ARE IN INTERNATIONAL FEET
 - WATER LEVELS MEASURED MAY 23-25, 2022
 - FRENCH DRAIN WAS NOT OPERATING DURING MAY 2022 EVENT

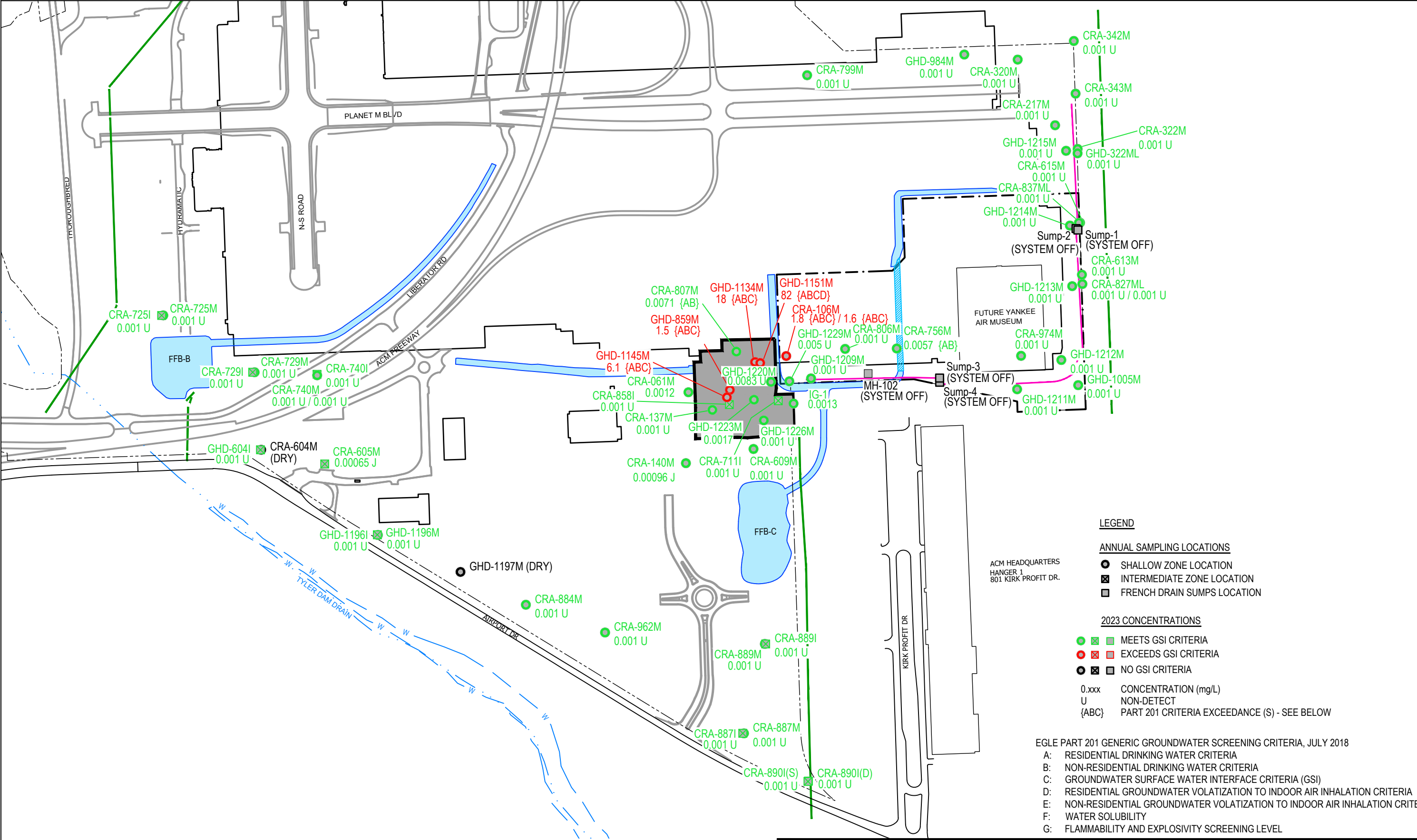


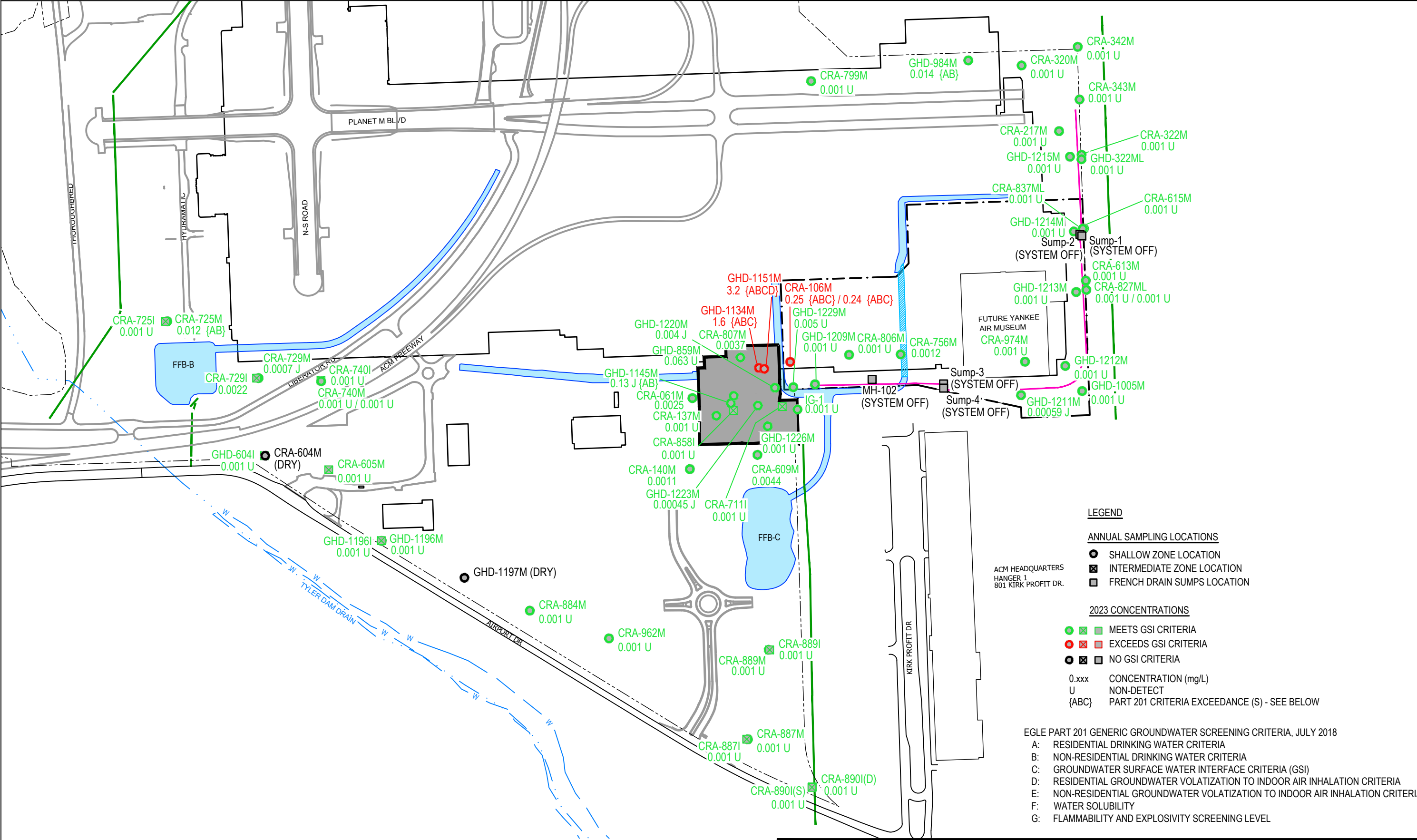
FORMER WILLOW RUN POWERTRAIN PLANT
YPSILANTI, MICHIGAN

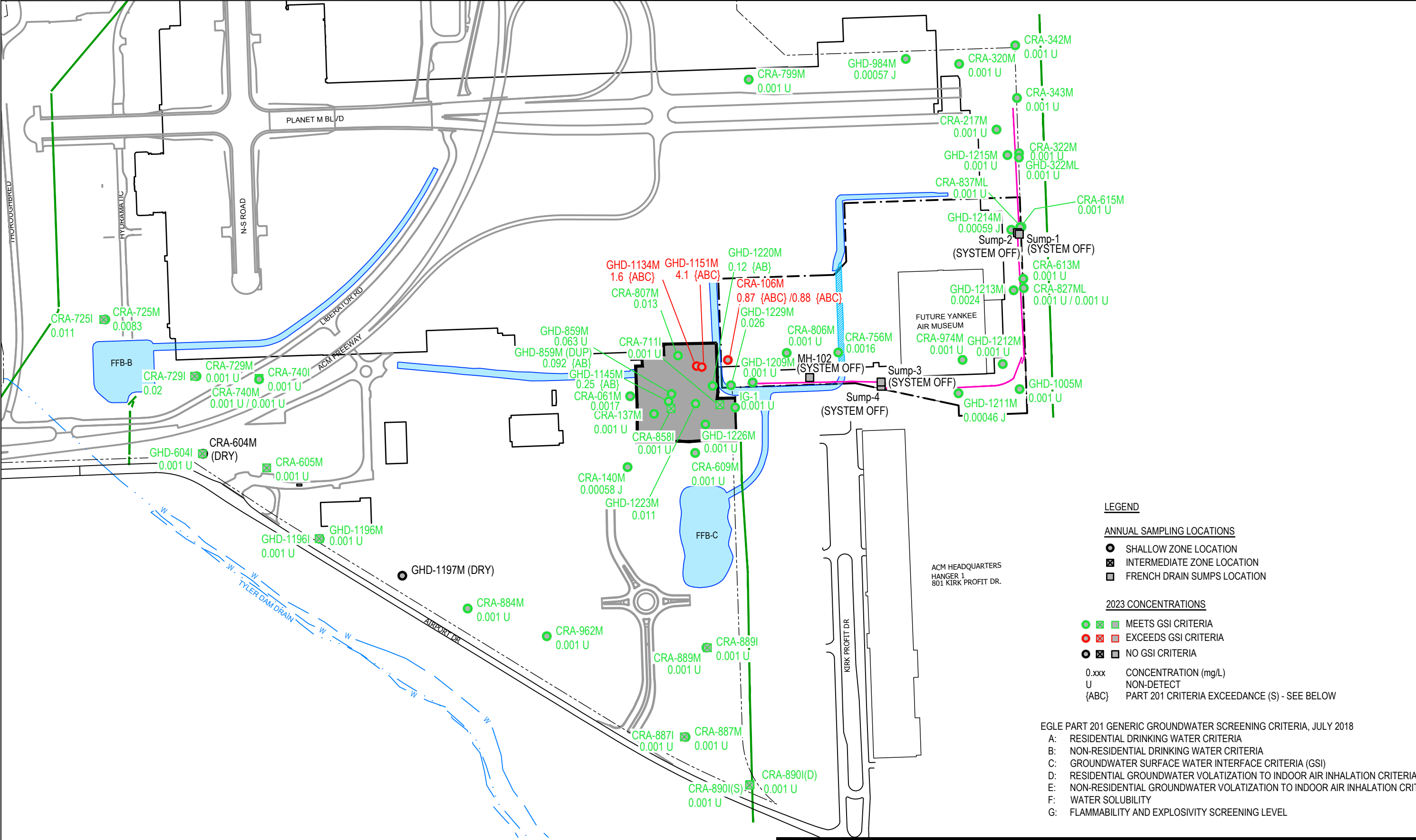
INTERMEDIATE GROUNDWATER ZONE
CONTOURS - MAY 2023

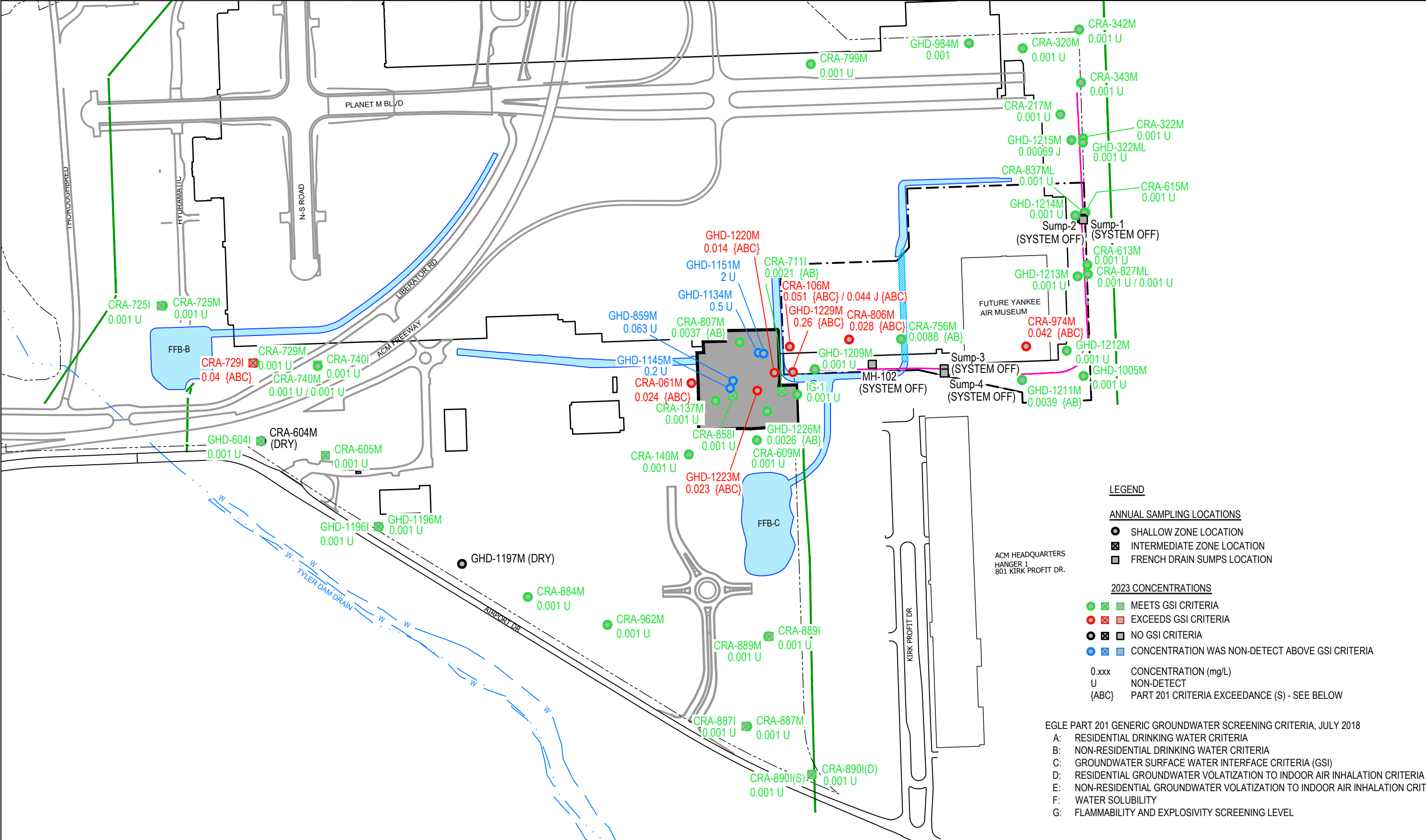
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Date October 2023

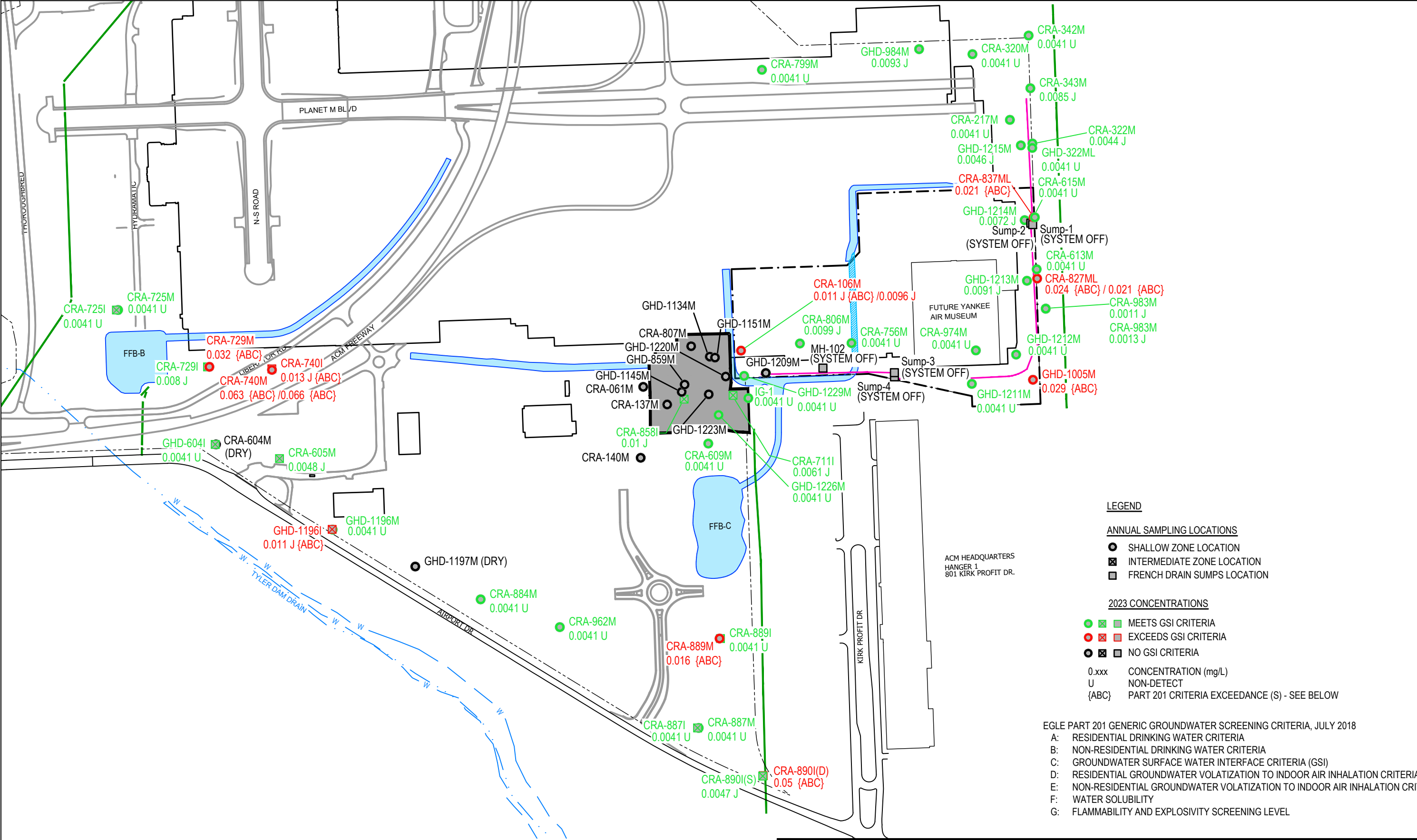
FIGURE 6

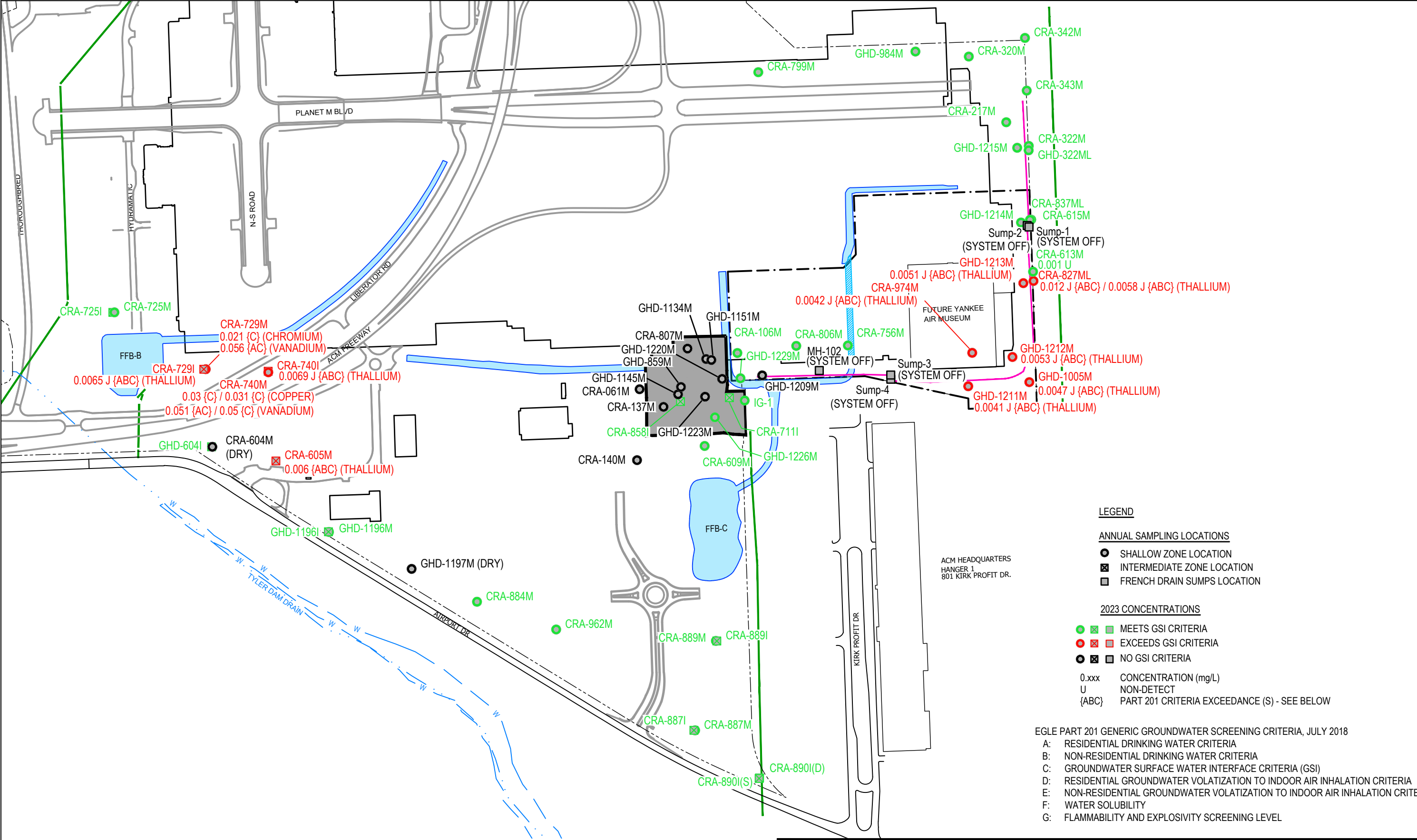


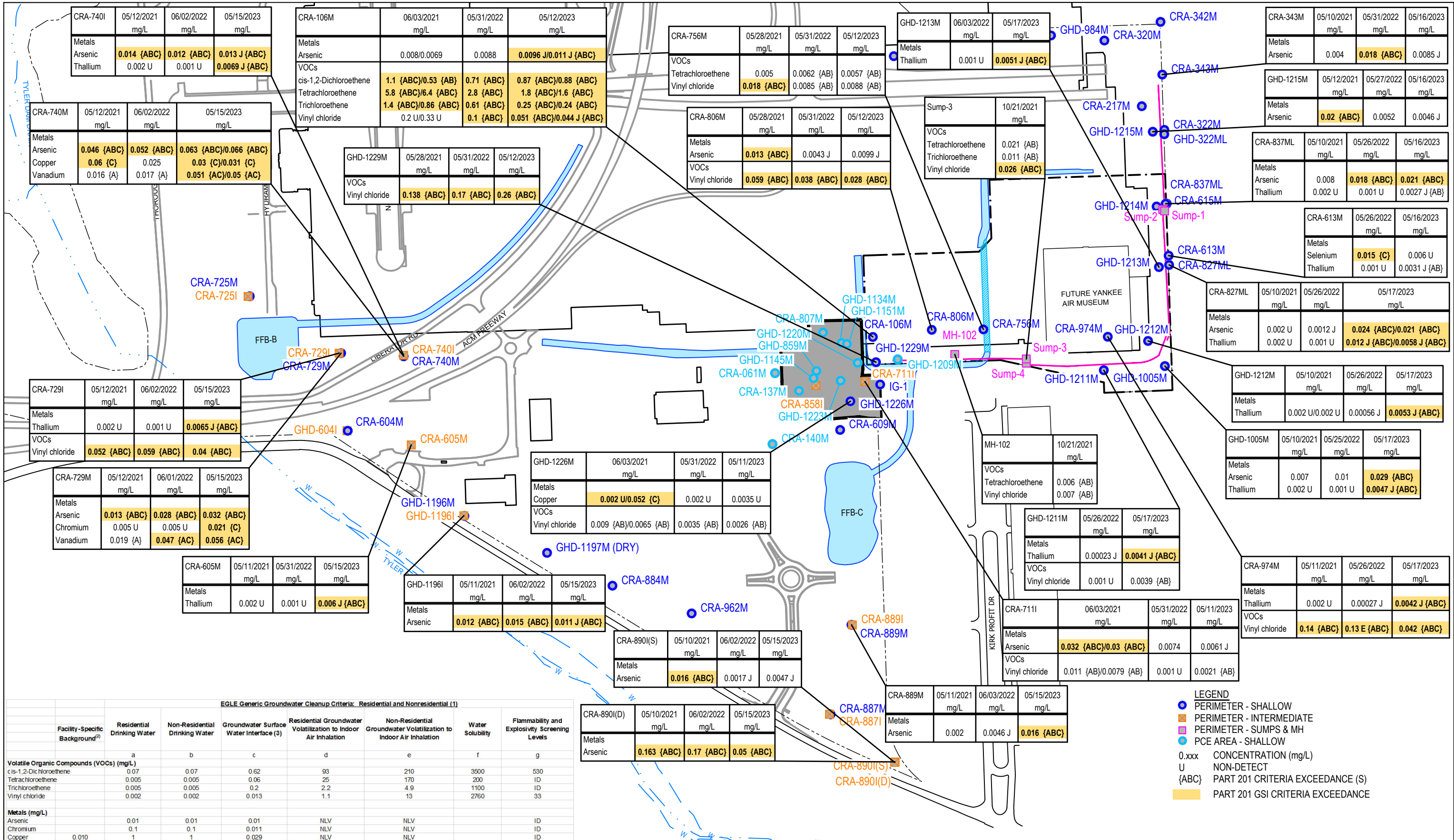












Tables

Groundwater Sampling Program
Three-Year Sampling Event (2021, 2022, 2023)
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Discussion Area / Monitoring Locations	Groundwater Zone	Rationale (Other than Downgradient Perimeter)	Parameters		
			VOCs	**SVOCs	Metals
Interior (Former Building Footprint/Apron) - Southwest					
Rationale: Downgradient Perimeter					
CRA-729M	Shallow	Confirm metals due to elevated turbidity	X	X	X
CRA-729I	Intermediate	Vinyl chloride GSI exceedance. Confirm acetone, MEK due to well repair.	X	X	X
CRA-740M	Shallow	Confirm metals due to elevated turbidity. Confirm acetone, MEK due to well repair.	X	X	X
CRA-740I	Intermediate	Confirm metals due to elevated turbidity. Confirm acetone, MEK due to well repair.	X	X	X
Perimeter (Northeast)					
Rationale: North side of Former Building Footprint - groundwater flow direction has changed					
CRA-320M	Shallow	-	X	X	X
CRA-342M	Shallow	-	X	X	X
CRA-799M	Shallow	-	X	X	X
GHD-984M	Shallow	-	X	X	X
Perimeter (West)					
Rationale: Downgradient Perimeter, south of Perimeter Storm Sewer Outfall.					
CRA-725M	Shallow	Vinyl chloride GSI exceedance upgradient at CRA-729I	X	X	X
CRA-725I	Intermediate		X	X	X
A (proposed, not installed)	Intermediate		X	X	X
Perimeter (South)					
Rationale: Downgradient Perimeter, south of Perimeter Storm Sewer Outfall.					
GHD-604I	Intermediate	Vinyl chloride GSI exceedance upgradient	X	X	X
CRA-604M	Shallow	at CRA-729I.	X	X	X
CRA-605M	Intermediate	-	X	X	X
CRA-884M	Shallow	-	X	X	X
CRA-887I	Intermediate	-	X	X	X
CRA-887M	Shallow	-	X	X	X
CRA-890I(S)	Intermediate	Arsenic GSI exceedance	X	X	X
CRA-890I(D)	Intermediate (deep)	Arsenic GSI exceedance			
CRA-962M	Shallow	-	X	X	X
GHD-1196I	Intermediate	-	X	X	X
GHD-1196M	Shallow	-	X	X	X
GHD-1197M	Shallow	-	X	X	X
CRA-889I	Intermediate	Chromium GSI exceedance	X	X	X
CRA-889M	Shallow	-	X	X	X
Perimeter (East/Southeast) - French Drain and Building 19 Areas					
Rationale: Flow Off-Site to WCAA Storm Sewers if Drain Off (Lines 1-4); Bldg 19: Elevated					
MH-102	n/a	Concentration trends in French drain	X	X	X
- French Drain Line 1					
Sump-1	Shallow+Intermediate	Concentration trends in Line 1	X	X	X
CRA-343M	Shallow	Water Quality on Site side of Line 1 (Can Line 1 be turned off?)	X	X	X
CRA-217M	Shallow		X	X	X
GHD-1215M	Shallow		X	X	X
GHD-1214M	Shallow	Water quality on WCAA side of Line 1	X	X	X
CRA-322M	Shallow (upper)		X	X	X
GHD-322ML	Shallow (lower)		X	X	X
CRA-615M	Shallow (upper)		X	X	X
CRA-837ML	Shallow (lower)		X	X	X

Groundwater Sampling Program
Three-Year Sampling Event (2021, 2022, 2023)
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Discussion Area / Monitoring Locations	Groundwater Zone	Rationale (Other than Downgradient Perimeter)	Parameters		
			VOCs	**SVOCs	Metals
- French Drain Line 2					
Sump-2	Shallow+Intermediate	Concentration trends in Line 2	X	X	X
GHD-1213M	Shallow	Water quality on Site side of Line 2 (Can Line 2 be turned off?)	X	X	X
CRA-613M	Shallow (upper)	Water quality on WCAA side of Line 2	X	X	X
CRA-827ML	Shallow (lower)		X	X	X
- French Drain Line 4					
Sump-4	Shallow+Intermediate	Concentration trends in Line 4	X	X	X
CRA-974M	Shallow	Water quality on Site side of Line 4 (Can Line 4 be turned off?)	X	X	X
GHD-1212M	Shallow		X	X	X
GHD-1005M	Shallow	Water quality on WCAA side of Line 4	X	X	X
GHD-1211M	Shallow		X	X	X
- French Drain Line 3 and Building 19 (PCE Area)					
Sump-3	Shallow+Intermediate	Concentration trends in Line 3	X	X	X
CRA-756M	Shallow	Water quality on Site side of Line 3. (CVOC Concentrations)	X	X	X
CRA-806M	Shallow		X	X	X
GHD-1229M	Shallow	Downgradient Perimeter of Building 19 Area	X	X	X
CRA-106M	Shallow		X	X	X
IG-1	Shallow	VOC, SVOC, metals COCs	X	X	X
GHD-1226M	Shallow		X	X	X
CRA-858I	Intermediate	858I: several COCs.	X	X	X
CRA-711I	Intermediate		X	X	X
CRA-609M	Shallow		X	X	X
Notes					
* Three-year event to be completed annually in conjunction with hydraulic monitoring event (Spring 2021, 2022, 2023)					
* If turbidity > 5 NTU, total and dissolved (filtered) metals samples were collected					
**SVOCs removed during 2023 sampling event due to no exceedances in 2021 or 2022					
Parameter List					
Field Parameters: pH, temperature, conductivity, turbidity, oxidation-reduction potential (ORP), dissolved oxygen (DO)					
VOCs:		SVOCs:	Metals		
1,1-Dichloroethene		2-Methylnaphthalene	Aluminum		
1,2,4-Trimethylbenzene*		Anthracene	Antimony		
1,2-Dichloropropane		Benzo(a)anthracene	Arsenic		
1,3,5-Trimethylbenzene*		Benzo(a)pyrene	Cadmium		
2-Butanone (Methyl ethyl ketone) (MEK)		Benzo(b)fluoranthene	Chromium		
Acetone		Benzo(g,h,i)perylene	Copper		
Benzene		Benzo(k)fluoranthene	Iron		
cis-1,2-Dichloroethene		bis(2-Ethylhexyl)phthalate (DEHP)	Lead		
Ethylbenzene		Carbazole	Manganese		
Isopropyl benzene		Chrysene	Mercury (std)		
Methylene chloride		Dibenzofuran	Nickel		
N-Propylbenzene		Di-n-butylphthalate (DBP)	Selenium		
Tetrachloroethene		Fluoranthene	Silver		
Toluene		Fluorene	Sodium		
trans-1,2-Dichloroethene		Hexachlorobutadiene	Vanadium		
Trichloroethene		Indeno(1,2,3-cd)pyrene	Zinc		
Vinyl chloride		Naphthalene			
Xylenes (total)		Phenanthrene			
		Pyrene			
* Not on standard VOC list					

**Groundwater Sampling Program
PCE Area
Former Willow Run Plant
Ypsilanti, Michigan**

Sample Location	Groundwater Zone	Sample Analysis	Sampling Rationale
IG-1	Shallow	VOCs	Annual and PCE Area
GHD-061M	Shallow	VOCs	PCE Area
CRA-106M	Shallow	VOCs	Annual and PCE Area
CRA-137M	Shallow	VOCs	PCE Area
CRA-140M	Shallow	VOCs	PCE Area
CRA-609M	Shallow	VOCs	Annual and PCE Area
CRA-711I	Intermediate	VOCs	Annual and PCE Area
CRA-756M	Shallow	VOCs	Annual and PCE Area
CRA-807M	Shallow	VOCs	PCE Area
CRA-858I	Intermediate	VOCs	Annual and PCE Area
GHD-859M	Shallow	VOCs	PCE Area
GHD-1134M	Shallow	VOCs	PCE Area
GHD-1145M	Shallow	VOCs	PCE Area
GHD-1151M	Shallow	VOCs	PCE Area
GHD-1209M	Shallow	VOCs	PCE Area
GHD-1220M	Shallow	VOCs	PCE Area
GHD-1223M	Shallow	VOCs	PCE Area
GHD-1226M	Shallow	VOCs	Annual and PCE Area
GHD-1229M	Shallow	VOCs	Annual and PCE Area
Sump 3	Shallow + Intermediate	VOCs	Annual and PCE Area
Sump 4	Shallow + Intermediate	VOCs	Annual and PCE Area

Table 3

Field Sample Key
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample ID	Location	Date Collected	Time Collected	QA/QC	Analysis	Notes
GW-12602792-051123-LK-001	CRA-711I	5/11/2023	10:50		VOCs, Metals	
GW-12602792-051123-CM-002	IG-1	5/11/2023	11:00		VOCs, Metals	
GW-12602792-051123-LK-003	CRA-609M	5/11/2023	12:25		VOCs, Metals	
GW-12602792-051123-CM-004	GHD-1226M	5/11/2023	12:30		VOCs, Metals	
GW-12602792-051123-LK-005	GHD-1220M	5/11/2023	14:20		VOCs	
GW-12602792-051123-CM-006	GHD-1223M	5/11/2023	13:30		VOCs	
GW-12602792-051123-LK-007	GHD-859M	5/11/2023	15:45		VOCs	
GW-12602792-051123-CM-008	CRA-858I	5/11/2023	15:00		VOCs, Metals	
GW-12602792-051123-LK-009	CRA-137M	5/11/2023	16:30		VOCs	
GW-12602792-051123-CM-010	GHD-1145M	5/11/2023	16:45		VOCs	
GW-12602792-051223-LK-011	GHD-1151M	5/12/2023	10:15		VOCs	
GW-12602792-051223-CM-012	GHD-1134M	5/12/2023	11:15		VOCs	
GW-12602792-051223-LK-013	GHD-061M	5/12/2023	11:55		VOCs	
GW-12602792-051223-CM-014	CRA-807M	5/12/2023	12:00		VOCs	
GW-12602792-051223-LK-015	GHD-1229M	5/12/2023	13:30		VOCs, Metals	
GW-12602792-051223-CM-016	CRA-140M	5/12/2023	13:30		VOCs	
GW-12602792-051223-LK-017	GHD-1209M	5/12/2023	15:00	MSMSD	VOCs	
GW-12602792-051223-CM-018	CRA-106M	5/12/2023	14:30		VOCs, Metals	
GW-12602792-051223-CM-019	CRA-106M	5/12/2023	14:35		VOCs, Metals	
GW-12602792-051223-DR-020	CRA-756M	5/12/2023	14:25		VOCs, Metals	
GW-12602792-051223-DR-021	CRA-806M	5/12/2023	14:50		VOCs, Metals	
GW-12602792-051523-CM-022	CRA-605M	5/15/2023	9:30		VOCs, Metals	
GW-12602792-051523-DR-024	CRA-740I	5/15/2023	9:45		VOCs, Metals	
GW-12602792-051523-BC-025	GHD-1196I	5/15/2023	11:00		VOCs, Metals	
GW-12602792-051523-CM-026	CRA-890I(S)	5/15/2023	12:30		VOCs, Metals	
GW-12602792-051523-CM-027	CRA-884M	5/15/2023	11:00		VOCs, Metals	
GW-12602792-051523-DA-028	GHD-604I	5/15/2023	10:20		VOCs, Metals	
GW-12602792-051523-DR-029	CRA-740M	5/15/2023	10:25		VOCs, Metals	Field Filtered
GW-12602792-051523-BC-030	GHD-1196M	5/15/2023	11:55		VOCs, Metals	
GW-12602792-051523-DR-031	CRA-740M	5/15/2023	10:35	DUP	VOCs, Metals	Field Filtered
GW-12602792-051523-DA-032	CRA-962M	5/15/2023	11:20		VOCs, Metals	
GW-12602792-051523-DR-033	CRA-729I	5/15/2023	11:45	MSMSD	VOCs, Metals	
GW-12602792-051523-DR-034	CRA-729M	5/15/2023	12:20		VOCs, Metals	Field Filtered
GW-12602792-051523-DA-035	CRA-887I	5/15/2023	12:45		VOCs, Metals	
GW-12602792-051523-DA-036	CRA-887M	5/15/2023	13:35		VOCs, Metals	
GW-12602792-051523-DR-037	CRA-725M	5/15/2023	14:50		VOCs, Metals	
GW-12602792-051523-DR-038	CRA-725I	5/15/2023	13:35		VOCs, Metals	
GW-12602792-051523-CM-039	CRA-890I(D)	5/15/2023	14:30		VOCs, Metals	
GW-12602792-051523-BC-040	CRA-889M	5/15/2023	15:00		VOCs, Metals	
GW-12602792-051523-DA-041	CRA-799M	5/15/2023	15:05		VOCs, Metals	
GW-1260279-051523-CM-042	CRA-889I	5/15/2023	15:30		VOCs, Metals	
GW-12602792-051623-DA-043	GHD-984M	5/16/2023	9:25		VOCs, Metals	
GW-12602792-051623-CM-044	CRA-320M	5/16/2023	9:30		VOCs, Metals	
GW-12602792-051523-DA-045	CRA-342M	5/16/2023	10:25		VOCs, Metals	
GW-12602792-05123-CM-046	CRA-343M	5/16/2023	11:15		VOCs, Metals	
GW-12602792-051623-DA-047	CRA-217M	5/16/2023	11:15		VOCs, Metals	
GW-12602792-051623-CM-048	CRA-322M	5/16/2023	13:45		VOCs, Metals	
GW-12602792-051623-DA-049	GHD-1215M	5/16/2023	13:40		VOCs, Metals	
GW-12602792-051623-DR-050	CRA-837ML	5/16/2023	13:30		VOCs, Metals	
GW-12602792-051623-DR-051	CRA-615M	5/16/2023	14:00		VOCs, Metals	
GW12602792-051693-DR-052	GHD-1214M	5/16/2023	14:25		VOCs, Metals	Collected under LNAPL

Field Sample Key
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample ID	Location	Date Collected	Time Collected	QA/QC	Analysis	Notes
GW-12602792-051623-CM-053	GHD-322ML	5/16/2023	14:45		VOCs, Metals	
GW-12602792-051623-DA-054	CRA-613M	5/16/2023	14:45		VOCs, Metals	
GW-12602792-051723-DA-055	GHD-1213M	5/17/2023	9:20	MSMSD	VOCs, Metals	Collected under LNAPL
GW-12602792-051723-LK-056	CRA-827ML	5/17/2023	9:40		VOCs, Metals	
GW-12602792-051723-BC-057	GHD-1212M	5/17/2023	10:15		VOCs, Metals	
GW-12602792-051723-LK-058	CRA-827ML	5/17/2023	9:50	DUP	VOCs, Metals	
GW-12602792-051723-DA-059	GHD-1005M	5/17/2023	10:25		VOCs, Metals	
GW-12602792-051723-BC-060	GHD-1211M	5/17/2023	14:15		VOCs, Metals	
GW-12602792-051723-LK-061	CRA-974M	5/17/2023	10:50		VOCs, Metals	

Table 4

Groundwater Analytical Results - 2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		Facility-Specific Background ⁽²⁾	EGLE Generic Groundwater Cleanup Criteria: Residential and Nonresidential (1)							CRA-061M GW-12602792-051223-LK-013 05/12/2023	CRA-106M GW-12602792-051223-CM-018 05/12/2023	CRA-106M GW-12602792-051223-CM-019 05/12/2023 Duplicate	CRA-137M GW-12602792-051123-LK-009 05/11/2023	CRA-140M GW-12602792-051223-CM-016 05/12/2023	CRA-217M GW-12602792-051623-DA-047 05/16/2023	CRA-320M GW-12602792-051623-CM-044 05/16/2023	CRA-322M GW-12602792-051623-CM-048 05/16/2023	CRA-342M GW-12602792-051623-DA-045 05/16/2023	CRA-343M GW-12602792-051623-CM-046 05/16/2023	CRA-605M GW-12602792-051523-CM-022 05/15/2023
Sample ID:			Residential Drinking Water	Non-Residential Drinking Water	Groundwater Surface Water Interface (2)	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation	Water Solubility	Flammability and Explosivity Screening Levels	Shallow-PCE Area	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate
Sample Date:																				
Sample Type:																				
Aquifer																				
Parameters	Units																			
Lead (dissolved)	mg/L	0.0058	0.004	0.004	0.071	NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	26	400	1100		NLV	NLV	ID	--	20	20	--	--	--	3.7 J	3.4 J	7.5	9	9	7.7
Magnesium (dissolved)	mg/L	26	400	1100		NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	mg/L	0.669	0.05	0.05	6.5	NLV	NLV	ID	--	0.84 ^{xab} 0.81 ^{xab}		--	--	0.023	0.29	0.25	1.2 ^{xab}		0.35	0.4
Manganese (dissolved)	mg/L	0.669	0.05	0.05	6.5	NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/L	0.04	0.002	0.002	0.0000013	0.056	0.056	0.056	--	0.00013 U	0.00013 U	--	--	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U
Mercury (dissolved)	mg/L	0.002	0.002	0.002	0.0000013	0.056	0.056	ID	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/L	0.02	0.1	0.1	0.16	NLV	NLV	ID	--	0.0082 J	0.0079 J	--	--	0.0024 J	0.0022 U	0.003 J	0.004 J	0.0024 J	0.0074 J	--
Nickel (dissolved)	mg/L	0.02	0.1	0.1	0.16	NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--	--	--	--	16	16	--	--	--	22	4.8 J	4.8 J	1.9 J	4.9 J	2 J
Potassium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/L	0.005	0.05	0.05	0.005	NLV	NLV	ID	--	0.006 U	0.006 U	--	--	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Selenium (dissolved)	mg/L	0.005	0.05	0.05	0.005	NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/L	0.0002	0.034	0.098	0.0002	NLV	NLV	ID	--	0.00062 U	0.00062 U	--	--	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
Silver (dissolved)	mg/L	0.0002	0.034	0.098	0.0002	NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	230	350	350		NLV	NLV	ID	--	75	78	--	--	--	83	79	16	53	180	170
Sodium (dissolved)	mg/L	230	350	350		NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	mg/L	0.002	0.002	0.002	0.0037	NLV	NLV	ID	--	0.0027 U	0.0027 U	--	--	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.006 J ^{xabc}
Thallium (dissolved)	mg/L	0.002	0.002	0.002	0.0037	NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/L		0.0045	0.062	0.027	NLV	NLV	ID	--	0.0056 U	0.0056 U	--	--	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U
Vanadium (dissolved)	mg/L		0.0045	0.062	0.027	NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/L	0.05	2.4	5	0.38	NLV	NLV	ID	--	0.023 U	0.023 U	--	--	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U
Zinc (dissolved)	mg/L	0.05	2.4	5	0.38	NLV	NLV	ID	--	--	--	--	--	--	--	--	--	--	--	--
Field Parameters																				
Conductivity, field	uS/cm								4439	834	834	1190	2320	63.9	619	406	64.8	1310	1090	
Dissolved oxygen (DO), field	mg/L		ID	ID	EE	ID	ID		0.2	0	0	0.3	0	0.35	0	0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts								-111	-127	-127	-120	17	31	-176	-101	-60	-163	-125	
pH, field	s.u.		6.5-8.5	6.5-8.5	6.5-9.0	ID	ID		7.55	7.28	7.28	6.92	7.27	7.84	7.58	7.03	7.75	7.38	7.44	
Temperature, sample	Deg C								14.24	19.67	19.67	14.43	16.27	17.26	12.84	19.64	16.15	16.67	12.34	
Turbidity, field	NTU								3.53	1.76	1.76	1.52	4.77	4.68	4.07	4.82	1.51	4.97	4.66	

Table 4

Groundwater Analytical Results - 2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-609M	CRA-613M	CRA-615M	CRA-711I	CRA-725I	CRA-725M	CRA-729I	CRA-729M	CRA-740I	CRA-740M	CRA-740M	CRA-756M	CRA-799M	CRA-806M	CRA-807M	CRA-827ML	CRA-827ML	CRA-837ML	
Sample ID:	GW-12602792-051123-LK-003	GW-12602792-051623-DA-054	GW-12602792-051623-DR-051	GW-12602792-051123-LK-001	GW-12602792-051523-DR-038	GW-12602792-051523-DR-037	GW-12602792-051523-DR-033	GW-12602792-051523-DA-034	GW-12602792-051523-DR-024	GW-12602792-051523-DR-029	GW-12602792-051523-DR-031	GW-12602792-051223-DR-020	GW-12602792-051523-DA-041	GW-12602792-051223-DR-021	GW-12602792-051223-CM-014	GW-12602792-051723-LK-056	GW-12602792-051723-LK-058	GW-12602792-051623-DR-050	
Sample Date:	05/11/2023	05/16/2023	05/16/2023	05/11/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/12/2023	05/15/2023	05/12/2023	05/17/2023	05/17/2023	05/16/2023
Sample Type:											Duplicate						Duplicate		
Aquifer	Shallow	Shallow	Shallow	Intermediate	Intermediate	Shallow	Intermediate	Shallow	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow-PCE Area	Lower Shallow	Lower Shallow	Shallow	
Parameters	Units																		
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane	mg/L	0.00094 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00046 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.011	0.0083	0.02	0.001 U	0.001 U	0.001 U	0.0016	0.001 U	0.001 U	0.013	0.001 U	0.001 U	0.001 U	
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0				

Table 4

Groundwater Analytical Results - 2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-609M	CRA-613M	CRA-615M	CRA-711I	CRA-725I	CRA-725M	CRA-729I	CRA-729M	CRA-740I	CRA-740M	CRA-740M	CRA-756M	CRA-799M	CRA-806M	CRA-807M	CRA-827ML	CRA-827ML	CRA-837ML	
Sample ID:	GW-12602792-051123-LK-003	GW-12602792-051623-DA-054	GW-12602792-051623-DR-051	GW-12602792-051123-LK-001	GW-12602792-051523-DR-038	GW-12602792-051523-DR-037	GW-12602792-051523-DR-033	GW-12602792-051523-DA-034	GW-12602792-051523-DR-024	GW-12602792-051523-DR-029	GW-12602792-051523-DR-031	GW-12602792-051223-DR-020	GW-12602792-051523-DA-041	GW-12602792-051223-DR-021	GW-12602792-051223-CM-014	GW-12602792-051723-LK-056	GW-12602792-051723-LK-058	GW-12602792-051623-DR-050	
Sample Date:	05/11/2023	05/16/2023	05/16/2023	05/11/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/12/2023	05/15/2023	05/12/2023	05/12/2023	05/17/2023	05/17/2023	05/16/2023	
Sample Type:											Duplicate						Duplicate		
Aquifer	Shallow	Shallow	Shallow	Intermediate	Intermediate	Shallow	Intermediate	Shallow	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow-PCE Area	Lower Shallow	Lower Shallow	Shallow	
Parameters	Units																		
Lead (dissolved)	mg/L	--	--	--	--	--	--	0.0028 U	--	0.0032 J	0.0051 J	--	--	--	--	--	--	--	
Magnesium	mg/L	28	20	17	25	14	11	22	16	1.5 J	0.26 U	19	13	14	--	18	17	31	
Magnesium (dissolved)	mg/L	--	--	--	--	--	--	1.3 J	--	0.26 U	0.26 U	--	--	--	--	--	--	--	
Manganese	mg/L	0.44	0.041	0.5	0.48	0.032	0.015	0.14	0.02	0.023	0.026	0.42	0.76 ^{xab}	0.33	--	0.38	0.36	0.5	
Manganese (dissolved)	mg/L	--	--	--	--	--	--	0.0057 J	--	0.007 J	0.0091 J	--	--	--	--	--	--	--	
Mercury	mg/L	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00014 J	0.00014 J	0.00013 U	0.00013 U	0.00013 U	--	0.00013 J	0.00013 J	0.00013 U	
Mercury (dissolved)	mg/L	--	--	--	--	--	--	0.0002 U	--	0.0002 U	0.0002 U	--	--	--	--	--	--	--	
Nickel	mg/L	0.0081 J	0.0022 U	0.005 J	0.0046 J	0.0028 J	0.0022 U	0.007 J	0.0031 J	0.014 J	0.0079 J	0.0083 J	0.0085 J	0.0069 J	0.0062 J	--	0.0095 J	0.0087 J	
Nickel (dissolved)	mg/L	--	--	--	--	--	--	0.0023 J	--	0.0069 J	0.0067 J	--	--	--	--	--	--	--	
Potassium	mg/L	4 J	5	9	2.5 J	1.7 J	4.5 J	2.9 J	36	13	40	42	12	18	8.8	--	9	8.3	
Potassium (dissolved)	mg/L	--	--	--	--	--	--	35	--	42	40	--	--	--	--	--	--	--	
Selenium	mg/L	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	--	0.006 U	0.006 U	
Selenium (dissolved)	mg/L	--	--	--	--	--	--	0.006 U	--	0.006 U	0.006 U	--	--	--	--	--	--	--	
Silver	mg/L	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	--	0.00062 U	0.00062 U	
Silver (dissolved)	mg/L	--	--	--	--	--	--	0.00062 U	--	0.00062 U	0.00062 U	--	--	--	--	--	--	--	
Sodium	mg/L	34	46	26	50	81	45	130	57	98	100	49	160	49	--	150	150	130	
Sodium (dissolved)	mg/L	--	--	--	--	--	--	57	--	110	100	--	--	--	--	--	--	--	
Thallium	mg/L	0.0027 U	0.0031 J ^{xab}	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0069 J ^{xabc}	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	--	0.012 J ^{xabc}	0.0058 J ^{xabc}	0.0027 J ^{xab}
Thallium (dissolved)	mg/L	--	--	--	--	--	--	0.0027 U	--	0.0027 U	0.0027 U	--	--	--	--	--	--	--	
Vanadium	mg/L	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.056 ^{ac}	0.0056 U	0.051 ^{ac}	0.05 ^{ac}	0.0056 U	0.0056 U	0.0056 U	--	0.0056 U	0.0056 U
Vanadium (dissolved)	mg/L	--	--	--	--	--	--	0.053 ^{ac}	--	0.048 J ^{ac}	0.044 J ^{ac}	--	--	--	--	--	--	--	
Zinc	mg/L	0.12	0.023 U	0.023 U	0.026 J	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	--	0.023 U	0.023 U	
Zinc (dissolved)	mg/L	--	--	--	--	--	--	0.023 U	--	0.023 U	0.023 U	--	--	--	--	--	--	--	
Field Parameters																			
Conductivity, field	uS/cm	961	85.1	0.76	814	720	549	1040	465	900	710	710	800	125	760	1440	134	134	164
Dissolved oxygen (DO), field	mg/L	0.32	142	1.94	0.38	0.29	5.6	0.35	0.69	0.59	0.34	0.34	0.4	0	0.28	0	0	0	0.29
Oxidation reduction potential (ORP), field	millivolts	-43	-55	-38.4	-136	-54.5	-30.1	-77.4	-74.3	-43.1	-41.6	-41.6	-76.3	-166	-109.2	-144	-155	-155	-86.2
pH, field	s.u.	7.03	7.19	6.97	7.32	7.61	7.33	7.41	9.4 ^{abc}	7.27	10.78 ^{abc}	10.78 ^{abc}	6.97	7.6	7.1	7.34	7.27	7.27	6.87
Temperature, sample	Deg C	18.42	21.89	16	17.17	14	14.4	11.9	12	12.2	11.7	11.7	13.2	17.3	13.8	17.01	12.85	12.85	14.5
Turbidity, field	NTU	2.96	4.89	2.01	1.03	1.34	2.32	2.86	25.3	1.55	17.9	17.9	3.72	4.12	3.12	3.45	4.5	4.5	4.75

Table 4

Groundwater Analytical Results - 2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		CRA-858I	CRA-884M	CRA-887I	CRA-887M	CRA-889I	CRA-889M	CRA-890(D)	CRA-890(S)	CRA-962M	CRA-974M	GHD-322ML	GHD-604I	GHD-859M	GHD-984M	GHD-1005M	GHD-1134M	GHD-1145M	GHD-1151M
Sample ID:		GW-12602792-051123-CM-008	GW-12602792-051523-CM-027	GW-12602792-051523-DA-035	GW-12602792-051523-DA-036	GW-12602792-051523-CM-042	GW-12602792-051523-BC-040	GW-12602792-051523-CM-039	GW-12602792-051523-CM-026	GW-12602792-051523-DA-032	GW-12602792-051723-LK-061	GW-12602792-051623-CM-053	GW-12602792-051523-DA-028	GW-12602792-051123-LK-007	GW-12602792-051623-DA-043	GW-12602792-051723-DA-059	GW-12602792-051223-CM-012	GW-12602792-051123-CM-010	GW-12602792-051223-LK-011
Sample Date:		05/11/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/17/2023	05/16/2023	05/15/2023	05/11/2023	05/16/2023	05/17/2023	05/12/2023	05/11/2023	05/12/2023
Sample Type:																			
Aquifer		Intermediate	Shallow	Intermediate	Shallow	Intermediate	Shallow	Intermediate (D)	Intermediate (S)	Shallow	Shallow	Shallow	Intermediate	Shallow-PCE Area	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area
Parameters	Units																		
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 J	0.063 U	0.001 U	0.5 U	0.2 U	2 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.5 U	0.2 U	2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.13 U	0.002 U	1 U	0.4 U	4 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.5 U	0.2 U	2 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.63 U	0.01 U	0.01 U	5 U	2 U	20 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.63 U	0.01 U	0.01 U	5 U	2 U	20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.63 U	0.01 U	0.01 U	5 U	2 U	20 U
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.63 U	0.01 U	0.01 U	5 U	2 U	20 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.00057 J	0.001 U	1.6 ^{abc}	0.25 ^{ab}	4.1 ^{abc}
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.063 U	0.001 U	0.001 U	0.5 U	0.2 U	2 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.00															

Table 4

Groundwater Analytical Results - 2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		CRA-858I	CRA-884M	CRA-887I	CRA-887M	CRA-889I	CRA-889M	CRA-890I(D)	CRA-890I(S)	CRA-962M	CRA-974M	GHD-322ML	GHD-604I	GHD-859M	GHD-984M	GHD-1005M	GHD-1134M	GHD-1145M	GHD-1151M
Sample ID:		GW-12602792-051123-CM-008	GW-12602792-051523-CM-027	GW-12602792-051523-DA-035	GW-12602792-051523-DA-036	GW-12602792-051523-CM-042	GW-12602792-051523-BC-040	GW-12602792-051523-CM-039	GW-12602792-051523-CM-026	GW-12602792-051523-DA-032	GW-12602792-051723-LK-061	GW-12602792-051623-CM-053	GW-12602792-051523-DA-028	GW-12602792-051123-LK-007	GW-12602792-051623-DA-043	GW-12602792-051723-DA-059	GW-12602792-051223-CM-012	GW-12602792-051123-CM-010	GW-12602792-051223-LK-011
Sample Date:		05/11/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/15/2023	05/17/2023	05/16/2023	05/15/2023	05/11/2023	05/16/2023	05/17/2023	05/12/2023	05/11/2023	05/12/2023
Sample Type:																			
Aquifer		Intermediate	Shallow	Intermediate	Shallow	Intermediate	Shallow	Intermediate (D)	Intermediate (S)	Shallow	Shallow	Shallow	Intermediate	Shallow-PCE Area	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area
Parameters		Units																	
Lead (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium		mg/L	70	9.8	37	30	13	9.3	21	25	16	30	26	6.1	--	17	20	--	--
Magnesium (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese		mg/L	0.25	0.077	0.081	0.11	0.23	1.4 ^{xab}	0.41	0.57	0.011 J	0.47	0.64	0.16	--	0.39	0.13	--	--
Manganese (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury		mg/L	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	--	0.00013 U	0.00013 U	--	--
Mercury (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel		mg/L	0.0034 J	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0031 J	0.0022 U	0.0022 U	0.0022 U	0.0088 J	0.0023 J	0.0035 J	--	0.0061 J	0.005 J	--	--
Nickel (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium		mg/L	5.5	2.4 J	1.7 J	2 J	2.1 J	6.5	2 J	3.5 J	4.1 J	7.1	11	5.7	--	8.1	2 J	--	--
Potassium (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium		mg/L	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	--	0.006 U	0.006 U	--	--
Selenium (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver		mg/L	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	--	0.00062 U	0.00062 U	--	--
Silver (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium		mg/L	190	24	61	35	16	25	43	72	64	83	82	150	--	120	59	--	--
Sodium (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium		mg/L	0.0027 U	0.0027 U	0.0027 U	0.0034 J ^{xab}	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0027 U	0.0042 J ^{xabc}	0.0027 U	0.0027 U	--	0.0027 U	0.0047 J ^{xabc}	--	--
Thallium (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium		mg/L	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	--	0.0056 U	0.0056 U	--	--
Vanadium (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc		mg/L	0.023 U	0.048 J	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	--	0.023 U	0.023 U	--	--
Zinc (dissolved)		mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Parameters																			
Conductivity, field		uS/cm	1800	348	175	147	494	495	873	1070	102	120	1100	105	774	125	95.3	1310	1370
Dissolved oxygen (DO), field		mg/L	0	0.2	0.2	0.41	0	0.8	0	0	3.06	0	0	0.52	0.46	0	0	0	0.75
Oxidation reduction potential (ORP), field		millivolts	-166	-27	69	78	-67	-176	-129	-133	43	-134	-122	-246	87	-161	-212	-130	-23
pH, field		s.u.	7.59	7.62	7.11	7.12	7.35	7.22	6.51	6.87	7.51	7.12	6.86	7.17	7.15	7.47	7.51	7.09	7.35
Temperature, sample		Deg C	15.72	14.16	14.8	16.61	15.86	23.85	15.58	12.63	13.3	12.7	17.88	14.69	25.45	13.99	12.75	20.41	14.5
Turbidity, field		NTU	0.95	3.14	3.88	3.31	1.29	3.73	4.42	0.98	4.86	4.55	4.97	4.25	1.56	3.98	4.89	4.56	0.81

Table 4

Groundwater Analytical Results - 2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1196I	GHD-1196M	GHD-1209M	GHD-1211M	GHD-1212M	GHD-1213M	GHD-1214M	GHD-1215M	GHD-1220M	GHD-1223M	GHD-1226M	GHD-1229M	IG-1
Sample ID:	GW-12602792-051523-BC-025	GW-12602792-051523-BC-030	GW-12602792-051223-LK-017	GW-12602792-051723-BC-060	GW-12602792-051723-BC-057	GW-12602792-051723-DA-055	GW-12602792-051623-DR-052	GW-12602792-051623-DA-049	GW-12602792-051123-LK-005	GW-12602792-051123-CM-006	GW-12602792-051123-CM-004	GW-12602792-051223-LK-015	GW-12602792-051123-CM-002
Sample Date:	05/15/2023	05/15/2023	05/12/2023	05/17/2023	05/17/2023	05/17/2023	05/16/2023	05/16/2023	05/11/2023	05/11/2023	05/11/2023	05/12/2023	05/11/2023
Sample Type:													
Aquifer	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow
Parameters	Units												
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0052	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.017 U	0.002 U	0.002 U	0.01 U	0.002 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.083 U	0.01 U	0.01 U	0.05 U	0.012
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.083 U	0.01 U	0.01 U	0.05 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.083 U	0.01 U	0.01 U	0.05 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.083 U	0.01 U	0.01 U	0.05 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00047 J	0.001 U	0.0083 U	0.001 U	0.005 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.00044 J
Carbon disulfide	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.052	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.00046 J	0.001 U	0.0024	0.00059 J	0.001 U	0.12 ^{ab}	0.011	0.001 U	0.026
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Methyl acetate	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.083 U	0.01 U	0.01 U	0.05 U	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.042 U	0.005 U	0.005 U	0.025 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.0017	0.001 U	0.005 U	0.0013
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0064 J	0.0016	0.001 U	0.005 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.00059 J	0.001 U	0.001 U	0.001 U	0.004 J	0.00045 J	0.001 U	0.005 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Trifluorotrichloroethane (CFC-113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0083 U	0.001 U	0.001 U	0.005 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.0039 ^{ab}	0.001 U	0.001 U	0.001 U	0.00069 J	0.014 ^{abc}	0.023 ^{abc}	0.0026 ^{ab}	0.26 ^{abc}
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.017 U	0.002 U	0.002 U	0.01 U
Metals													
Aluminum	mg/L	0.047 J	0.16 J	--	0.12 J	0.047 U	0.047 U	0.049 JB	0.072 JB	--	--	0.047 U	0.047 U
Aluminum (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.45 ^{xab}
Antimony	mg/L	0.0075 U	0.0075 U	--	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	--	--	0.0075 U	0.0075 U
Antimony (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	mg/L	0.011 J ^{abc}	0.0041 U	--	0.0041 U	0.0041 U	0.0091 J	0.0072 J	0.0046 J	--	--	0.0041 U	0.0041 U
Arsenic (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Barium	mg/L	0.12 J	0.028 J	--	0.054 J	0.075 J	0.22	0.5	0.43	--	--	0.24	0.098 J
Barium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.016 J
Beryllium	mg/L	0.0006 U	0.0006 U	--	0.0006 U	0.0006 U	0.0006 U	0.0006 U	0.0006 U	--	--	0.0006 U	0.0006 U
Beryllium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	0.00045 U	0.00045 U	--	0.00045 U	0.00045 U	0.00045 U	0.00045 U	0.00045 U	--	--	0.00045 U	0.00045 U
Cadmium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	mg/L	120	44	--	88	94	140	140	170	--	--	150	100
Calcium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	24
Chromium	mg/L	0.00076 U	0.00076 U	--	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00097 J	--	--	0.0013 J	0.001 J
Chromium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.00076 U
Cobalt	mg/L	0.00091 J	0.00075 U	--	0.00075 U	0.0014 J	0.0008 J	0.0015 J	0.00075 U	--	--	0.0047 J	0.00082 J
Cobalt (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.00075 U
Copper	mg/L	0.0035 U	0.0035 U	--	0.0035 U	0.0042 J	0.0035 U	0.0035 U	0.0035 U	--	--	0.0035 U	0.0035 U
Copper (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.0076 J
Iron	mg/L	2.6 ^{xab}	0.16 J	--	0.12 J	1.6 ^{xab}	1.3 ^{xab}	1.7 ^{xab}	1.4 ^{xab}	--	--	0.96	0.95
Iron (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.083 U
Lead	mg/L	0.0028 U	0.0028 U	--	0.0028 U	0.0028 U	0.0028 U	0.0028 U	0.0028 U	--	--	0.0028 U	0.0028 U

Table 4

Groundwater Analytical Results - 2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1196I	GHD-1196M	GHD-1209M	GHD-1211M	GHD-1212M	GHD-1213M	GHD-1214M	GHD-1215M	GHD-1220M	GHD-1223M	GHD-1226M	GHD-1229M	IG-1
Sample ID:	GW-12602792-051523-BC-025	GW-12602792-051523-BC-030	GW-12602792-051223-LK-017	GW-12602792-051723-BC-060	GW-12602792-051723-BC-057	GW-12602792-051723-DA-055	GW-12602792-051623-DR-052	GW-12602792-051623-DA-049	GW-12602792-051123-LK-005	GW-12602792-051123-CM-006	GW-12602792-051123-CM-004	GW-12602792-051223-LK-015	GW-12602792-051123-CM-002
Sample Date:	05/15/2023	05/15/2023	05/12/2023	05/17/2023	05/17/2023	05/17/2023	05/16/2023	05/16/2023	05/11/2023	05/11/2023	05/11/2023	05/12/2023	05/11/2023
Sample Type:													
Aquifer	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow
Parameters	Units												
Lead (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L	24	7.5	--	12	15	20	29	30	--	--	37	16
Magnesium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.26 U
Manganese	mg/L	0.23	0.0032 J	--	0.22	0.49	0.33	0.6	0.85 ^{xab}	--	--	1.6 ^{xab}	0.39
Manganese (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.0026 U
Mercury	mg/L	0.00013 U	0.00013 U	--	0.00014 J	0.00013 U	0.00023	0.00013 U	0.00013 U	--	--	0.00013 U	0.00013 U
Mercury (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/L	0.0022 U	0.0022 U	--	0.0044 J	0.0076 J	0.0035 J	0.0024 J	0.0027 J	--	--	0.0072 J	0.0048 J
Nickel (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.0082 J
Potassium	mg/L	1.6 J	2 J	--	6.2	4.4 J	18	23	22	--	--	5.7	3.7 J
Potassium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	20
Selenium	mg/L	0.006 U	0.006 U	--	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	--	--	0.006 U	0.006 U
Selenium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.006 U
Silver	mg/L	0.00062 U	0.00062 U	--	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	--	--	0.00062 U	0.00062 U
Silver (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L	67	74	--	59	49	110	110	110	--	--	32	83
Sodium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	46
Thallium	mg/L	0.0027 U	0.0027 U	--	0.0041 J ^{xabc}	0.0053 J ^{xabc}	0.0051 J ^{xabc}	0.0027 U	0.0027 U	--	--	0.0027 U	0.0027 U
Thallium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/L	0.0056 U	0.0056 U	--	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	--	--	0.0056 U	0.0056 U
Vanadium (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.0056 U
Zinc	mg/L	0.023 U	0.023 U	--	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	--	--	0.023 U	0.023 U
Zinc (dissolved)	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.023 U
Field Parameters													
Conductivity, field	uS/cm	1060	577	755	655	764	102	1.41	158	652	985	1090	797
Dissolved oxygen (DO), field	mg/L	0.35	7.69	0.18	0.83	0.7	0	0.24	0.01	0.4	0	0	0.17
Oxidation reduction potential (ORP), field	millivolts	-122	104	-109	12	-125	-204	-88.8	-201	53	-150	-76	-93
pH, field	s.u.	7.32	7.69	7.44	7.5	7.33	7.17	6.89	6.86	7.31	7.41	7.2	7.32
Temperature, sample	Deg C	19.14	21.46	20.26	18.43	12.86	13.91	13.4	15.71	19.82	19.28	16.9	19.07
Turbidity, field	NTU	2.37	2.44	2.84	7.7	4.23	4.52	2.19	4.31	4.56	4.43	4.76	4.42

Notes:
(1) EGLE - Michigan Department of Environment, Great Lakes and Energy (EGLE) Generic cleanup criteria for residential and nonresidential category, administrative rule R 299.44 effective December 30, 2013, pursuant to Part 201 of 1994 PA 451 as amended
(2) Facility-Specific Background Concentrations (FSBCs).
(3) A hardness of 391.25 mg/L CaCo3 and pH of 7.25 was used, where required, to calculate a Facility-specific groundwater surface water interface protection (GSIP) criterion

U - Not detected at the associated reporting limit.
U - Not detected at the associated method detection limit for 2023 Metals Results
J - Estimated concentration.
B - Result detected in associated method blank.

Blanks - Not Available or Not Applicable
ID - Insufficient Data to develop criterion.
NLV - Hazardous substance is Not Likely to Volatilize under most conditions.

300 ^a	- boxed cell denotes exceedance of cleanup criteria screening level identified by superscript.
1.7 ^{xab}	- boxed cell denotes exceedance of site Background (x) and cleanup criteria screening level identified by superscript.
1.4 ^{abc}	- boxed/highlighted cell denotes exceedance of cleanup criteria screening level identified by superscript and GSI.

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	EGLE Generic Groundwater Cleanup Criteria: Residential and Nonresidential (1)								CRA-106M	CRA-106M	CRA-106M	CRA-106M	CRA-106M	CRA-137M	CRA-137M	CRA-137M	CRA-137M	CRA-137M	
Sample ID:	Facility-Specific	Residential Drinking Water	Non-Residential Drinking Water	Groundwater Surface Water Interface (2)	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation	Water Solubility	Flammability and Explosivity Screening Levels	GW-11223073-060321-DA-043	GW-11223073-060321-DA-044	GW-11223073-053122-AC-017	GW-12602792-051223-CM-018	GW-12602792-051223-CM-019	GW-17358-051420-DR-005	GW-17358-102120-DR-004	GW-11223073-060421-DA-054	GW-11223073-060122-AC-036	GW-12602792-051123-LK-009	
Sample Date:									06/03/2021	06/03/2021 Duplicate	05/31/2022	05/12/2023	05/12/2023 Duplicate	05/14/2020	10/21/2020	06/04/2021	06/01/2022	05/11/2023	
Sample Type:									Shallow	Shallow	Shallow	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	
Aquifer	Background ⁽²⁾																		
Parameters	Units																		
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane	mg/L	x	a	b	c	d	e	f	g	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L		0.0085	0.035	0.078	12	77	2970	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,1,2-Trichloroethane	mg/L		0.005	0.005	0.33	17	110	4420		0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,1-Dichloroethane	mg/L		0.88	2.5	0.74	1000	2300	5060	380	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,1-Dichloroethene	mg/L		0.007	0.007	0.13	0.2	1.3	2250	97	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,2,4-Trichlorobenzene	mg/L		0.07	0.07	0.099	300	300	300		0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L		0.0002	0.0002	ID	0.22	1.2	1.23		0.2 U	0.33 U	0.13 U	0.1 U	0.1 U	0.001 U	0.0013 U	0.001 U	0.0031 U	0.002 U
1,2-Dibromoethane (Ethylene dibron	mg/L		0.00005	0.00005	0.0057	2.4	15	4200	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,2-Dichlorobenzene	mg/L		0.6	0.6	0.013	160	160	156		0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.00037 J	0.00081 J	0.001 U	0.0015 U	0.001 U
1,2-Dichloroethane	mg/L		0.005	0.005	0.36	9.6	59	8520	2500	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,2-Dichloropropane	mg/L		0.005	0.005	0.23	16	36	2800	550	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,3-Dichlorobenzene	mg/L		0.0066	0.019	0.028	18	41	111	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
1,4-Dichlorobenzene	mg/L		0.075	0.075	0.017	16	74	73.8		0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
2-Butanone (Methyl ethyl ketone) (M	mg/L		13	38	2.2	240000	240000	240000	ID	2 U	3.3 U	0.63 U	0.5 U	0.5 U	0.01 U	0.0022 J	0.01 U	0.0019 J	0.01 U
2-Hexanone	mg/L		1	2.9	ID	4200	8700	16000		2 U	3.3 U	0.63 U	0.5 U	0.5 U	0.01 U	0.013 U	0.01 U	0.015 U	0.01 U
4-Methyl-2-pentanone (Methyl isobu	mg/L		1.8	5.2	ID	20000	20000	20000	ID	2 U	3.3 U	0.63 U	0.5 U	0.5 U	0.01 U	0.013 U	0.01 U	0.015 U	0.01 U
Acetone	mg/L		0.73	2.1	1.7	1000000	1000000	1000000	15000	2 U	3.3 U	0.63 U	0.5 U	0.5 U	0.01 U	0.03	0.054 U	0.015 U	0.01 U
Benzene	mg/L		0.005	0.005	0.2	5.6	35	1750	68	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Bromodichloromethane	mg/L		0.08	0.08	ID	4.8	37	6740	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Bromoform	mg/L		0.08	0.08	ID	470	3100	3100	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Bromomethane (Methyl bromide)	mg/L		0.01	0.029	0.005	4	9	14500	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Carbon disulfide	mg/L		0.8	2.3	ID	250	550	1190	13	1 U	1.7 U	0.063 U	0.05 U	0.05 U	0.005 U	0.0063 U	0.005 U	0.0015 U	0.001 U
Carbon tetrachloride	mg/L		0.005	0.005	0.038	0.37	2.4	793	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Chlorobenzene	mg/L		0.1	0.1	0.025	210	470	472	160	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Chloroethane	mg/L		0.43	1.7	1.1	5700	5700	5740	110	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Chloroform (Trichloromethane)	mg/L		0.08	0.08	0.35	28	180	7920	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Chloromethane (Methyl chloride)	mg/L		0.26	1.1	ID	8.6	45	6340	36	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
cis-1,2-Dichloroethene	mg/L		0.07	0.07	0.62	93	210	3500	530	1.1 ^{abc}	0.53 ^{ab}	0.71 ^{abc}	0.87 ^{abc}	0.88 ^{abc}	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
cis-1,3-Dichloropropene	mg/L									0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Cyclohexane	mg/L									0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.017	0.023	0.012	0.011	0.0029
Dibromochloromethane	mg/L		0.08	0.08	ID	14	110	2600	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L		1.7	4.8	ID	220	300	300	ID	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.001 U	0.0013 U	0.001 U	0.0015 U	0.001 U
Ethylbenzene	mg/L		0.074	0.074	0.018	110	170	169	43	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.00027 J	0.00059 J	0.001 U	0.0015 U	0.001 U
Isopropyl benzene	mg/L		0.8	2.3	0.028	56	56	56	29	0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.0053	0.011	0.004	0.004	0.00096 J
m&p-Xylenes	mg/L									0.4 U	-	-	-	-	-	0.002 U	-	-	-
Methyl acetate	mg/L									0.2 U	3.3 U	0.63 U	0.5 U	0.5 U	0.01 U	0.013 U	0.001 U	0.015 U	0.01 U
Methyl cyclohexane	mg/L									0.2 U	0.33 U	0.063 U	0.05 U	0.05 U	0.0056	0.0069	0.005	0.0033	0.00066 J
Methyl tert butyl ether (MTBE)	mg/L		0.04	0.04	7.1	47000	47000	46800	ID	1 U	0.33 U	0.063 U	0.05 U	0.05 U	0.0011	0.0023	0.005 U	0.0014 J	0.001 U
Methylene chloride	mg/L		0.005	0.005	1.5	220	1400	17000	ID										

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		EGLE Generic Groundwater Cleanup Criteria: Residential and Nonresidential (1)							CRA-106M	CRA-106M	CRA-106M	CRA-106M	CRA-106M	CRA-137M	CRA-137M	CRA-137M	CRA-137M	CRA-137M	
Sample ID:		Facility-Specific	Residential Drinking Water	Non-Residential Drinking Water	Groundwater Surface Water Interface (2)	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation	Water Solubility	Flammability and Explosivity Screening Levels	GW-11223073-060321-DA-043	GW-11223073-060321-DA-044	GW-11223073-053122-AC-017	GW-12602792-051223-CM-018	GW-12602792-051223-CM-019	GW-17358-051420-DR-005	GW-17358-102120-DR-004	GW-11223073-060421-DA-054	GW-11223073-060122-AC-036	GW-12602792-051123-LK-009
Sample Date:						06/03/2021	06/03/2021 Duplicate			05/31/2022	05/12/2023	05/12/2023 Duplicate	05/14/2020	10/21/2020	06/04/2021	06/01/2022	05/11/2023		
Sample Type:						Shallow	Shallow			Shallow	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area		
Aquifer		Background ⁽²⁾																	
Parameters	Units																		
Acenaphthene	mg/L		1.3	3.8	0.038	4.2	4.2	4.24	ID	0.005 U	0.02 U	0.0002 U	-	-	0.0051 U	-	0.005 U	-	-
Acenaphthylene	mg/L		0.052	0.15	ID	3.9	3.9	3.93	ID	0.005 U	0.02 U	0.0002 U	-	-	0.0051 U	-	0.005 U	-	-
Acetophenone	mg/L		1.5	4.4	ID	6100	6100	6100	ID	0.005 U	0.02 U	0.001 U	-	-	0.0051 U	-	0.005 U	-	-
Anthracene	mg/L		0.043	0.043	ID	0.043	0.043	0.0434	ID	0.005 U	0.02 U	0.0002 U	-	-	0.0051 U	-	0.005 U	-	-
Atrazine	mg/L		0.003	0.003	0.0073	NLV	NLV	70	ID	0.003 U	0.012 U	0.002 U	-	-	0.003 U	-	0.003 U	-	-
Benzaldehyde	mg/L									0.005 U	0.02 U	0.002 U	-	-	0.0051 U	-	0.005 U	-	-
Benzo(a)anthracene	mg/L		0.0021	0.0085	ID	NLV	NLV	0.0094	ID	0.001 U	0.004 U	0.0002 U	-	-	0.001 U	-	0.001 U	-	-
Benzo(a)pyrene	mg/L		0.005	0.005	ID	NLV	NLV	0.00162	ID	0.001 U	0.004 U	0.0002 U	-	-	0.001 U	-	0.001 U	-	-
Benzo(b)fluoranthene	mg/L		0.0015	0.0015	ID	ID	ID	0.0015	ID	0.001 U	0.004 U	0.0002 U	-	-	0.001 U	-	0.001 U	-	-
Benzo(g,h,i)perylene	mg/L		0.001	0.001	ID	NLV	NLV	0.00026	ID	0.001 U	0.004 U	0.0002 U	-	-	0.001 U	-	0.001 U	-	-
Benzo(k)fluoranthene	mg/L		0.001	0.001		NLV	NLV	0.0008	ID	0.001 U	0.004 U	0.0002 U	-	-	0.001 U	-	0.001 U	-	-
Biphenyl (1,1-Biphenyl)	mg/L									0.005 U	0.02 U	0.001 U	-	-	0.0051 U	-	0.005 U	-	-
bis(2-Chloroethoxy)methane	mg/L									0.005 U	0.02 U	0.001 U	-	-	0.0051 U	-	0.005 U	-	-
bis(2-Chloroethyl)ether	mg/L		0.002	0.0083	0.001	38	210	17200	17000	0.001 U	0.004 U	0.001 U	-	-	0.001 U	-	0.001 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L		0.006	0.006	0.014	NLV	NLV	0.34		0.005 U	0.02 U	0.005 U	-	-	0.0051 U	-	0.005 U	-	-
Butyl benzylphthalate (BBP)	mg/L		1.2	2.7	0.067	NLV	NLV	2.69	ID	0.005 U	0.02 U	0.002 U	-	-	0.0051 U	-	0.005 U	-	-
Caprolactam	mg/L		5.8	17		NLV	NLV	5250000		0.01 U	0.04 U	0.005 U	-	-	0.01 U	-	0.01 U	-	-
Carbazole	mg/L		0.085	0.35	0.01	NLV	NLV	7.48	ID	0.01 U	0.04 U	0.001 U	-	-	0.01 U	-	0.01 U	-	-
Chrysene	mg/L		0.0016	0.0016	ID	ID	ID	0.0016	ID	0.001 U	0.004 U	0.0002 U	-	-	0.001 U	-	0.001 U	-	-
Dibenz(a,h)anthracene	mg/L		0.002	0.002	ID	NLV	NLV	0.00249	ID	0.002 U	0.0079 U	0.0002 U	-	-	0.002 U	-	0.002 U	-	-
Dibenzofuran	mg/L		ID	ID	0.004	10	10	10	ID	0.004 U	0.016 U	0.001 U	-	-	0.004 U	-	0.004 U	-	-
Diethyl phthalate	mg/L		5.5	16	0.11	NLV	NLV	1080		0.005 U	0.02 U	0.005 U	-	-	0.0051 U	-	0.005 U	-	-
Dimethyl phthalate	mg/L		73	210		NLV	NLV	4190		0.005 U	0.02 U	0.002 U	-	-	0.0051 U	-	0.005 U	-	-
Di-n-butylphthalate (DBP)	mg/L		0.88	2.5	0.0097	NLV	NLV	11.2		0.005 U	0.02 U	0.005 U	-	-	0.0051 U	-	0.005 U	-	-
Di-n-octyl phthalate (DnOP)	mg/L		0.13	0.38	ID	NLV	NLV	3	ID	0.005 U	0.02 U	0.002 U	-	-	0.0051 U	-	0.005 U	-	-
Fluoranthene	mg/L		0.21	0.21	0.0016	0.21	0.21	0.206	ID	0.001 U	0.004 U	0.0002 U	-	-	0.001 U	-	0.001 U	-	-
Fluorene	mg/L		0.88	2	0.012	2	2	1.98	ID	0.005 U	0.02 U	0.0002 U	-	-	0.0051 U	-	0.005 U	-	-
Hexachlorobenzene	mg/L		0.001	0.001	0.0002	0.44	3	6.2	ID	0.0002 U	0.00079 U	0.0002 U	-	-	0.0002 U	-	0.0002 U	-	-
Hexachlorobutadiene	mg/L		0.015	0.042	0.000053	1.6	3.2	3.23	ID	0.001 U	0.004 U	0.001 U	-	-	0.001 U	-	0.001 U	-	-
Hexachlorocyclopentadiene	mg/L		0.05	0.05	ID	0.13	0.42	1.8	ID	0.005 U	0.02 U	0.01 U	-	-	0.0051 U	-	0.005 U	-	-
Hexachloroethane	mg/L		0.0073	0.021	0.0067	27	50	50	ID	0.005 U	0.02 U	0.001 U	-	-	0.0051 U	-	0.005 U	-	-
Indeno(1,2,3-cd)pyrene	mg/L		0.002	0.002	ID	NLV	NLV	0.000022	ID	0.002 U	0.0079 U	0.0002 U	-	-	0.002 U	-	0.002 U	-	-
Isophorone	mg/L		0.77	3.1	1.3	NLV	NLV	12000	ID	0.005 U	0.02 U	0.001 U	-	-	0.0051 U	-	0.005 U	-	-
Naphthalene	mg/L		0.52	1.5	0.011	31	31	31		0.005 U	0.02 U	0.0041	-	-	0.00019 J	-	0.005 U	-	-
Nitrobenzene	mg/L		0.0034	0.0096	0.18	280	550	2090		0.003 U	0.012 U	0.001 U	-	-	0.003 U	-	0.003 U	-	-
N-Nitrosodi-n-propylamine	mg/L		0.005	0.005		NLV	NLV	9890	ID	0.005 U	0.02 U	0.001 U	-	-	0.0051 U	-	0.005 U	-	-
N-Nitrosodiphenylamine	mg/L		0.27	1.1		NLV	NLV	35.1	ID	0.005 U	0.02 U	0.001 U	-	-	0.0051 U	-	0.005 U	-	-
Pentachlorophenol	mg/L		0.001	0.001	0.0028	NLV	NLV	1850	ID	0.005 U	0.02 U	0.01 U	-	-	0.0051 U	-	0.005 U	-	-
Phenanthrene	mg/L		0.052	0.15	0.002	1	1	1	ID	0.002 U	0.0079 U	0.0002 U	-	-	0.002 U	-	0.002 U	-	-
Phenol	mg/L		4.4	13	0.45	NLV	NLV	82800		0.005 U	0.02 U	0.001 U	-	-	0.0051 U	-	0.005 U	-	-
Pyrene	mg/L		0.14	0.14	ID	0.14	0.14	0.135	ID	0.005 U	0.02 U	0.0002 U	-	-	0.0051 U	-	0.005 U	-	-
Metals																			
Aluminum	mg/L	0.44	0.05	0.05		NLV	NLV		ID	0.01 U	0.05 U	0.05 U	0.047 U	0.047 U	0.05 U	-	0.015	0.05 U	-
Aluminum (dissolved)	mg/L	0.44	0.05	0.05		NLV	NLV		ID	-	-	-	--	--	-	-	-	0.05 U	-
Antimony	mg/L		0.006	0.006	0.13	NLV	NLV		ID	0.005 U	0.002 U	0.002 U	0.0075 U	0.0075 U	0.002 U	-	0.005 U	0.002 U	-
Antimony (dissolved)	mg/L																		

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		EGLE Generic Groundwater Cleanup Criteria: Residential and Nonresidential (1)								CRA-106M	CRA-106M	CRA-106M	CRA-106M	CRA-106M	CRA-137M	CRA-137M	CRA-137M	CRA-137M	CRA-137M	
Sample ID:		Facility-Specific	Residential Drinking Water	Non-Residential Drinking Water	Groundwater Surface Water Interface (2)	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation	Water Solubility	Flammability and Explosivity Screening Levels	GW-11223073-060321-DA-043	GW-11223073-060321-DA-044	GW-11223073-053122-AC-017	GW-12602792-051223-CM-018	GW-12602792-051223-CM-019	GW-17358-051420-DR-005	GW-17358-102120-DR-004	GW-11223073-060421-DA-054	GW-11223073-060122-AC-036	GW-12602792-051123-LK-009	
Sample Date:										06/03/2021	06/03/2021 Duplicate	05/31/2022	05/12/2023	05/12/2023 Duplicate	05/14/2020	10/21/2020	06/04/2021	06/01/2022	05/11/2023	
Sample Type:																				
Aquifer		Background ⁽²⁾								Shallow	Shallow	Shallow	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	
Parameters	Units																			
Potassium	mg/L									11.9	11	12	16	16	7.4	-	-	6.76	7.5	-
Potassium (dissolved)	mg/L									-	-	-	-	-	-	-	-	-	7.5	-
Selenium	mg/L	0.005	0.05	0.05	0.005	NLV	NLV		ID	0.005 U	0.005 U	0.005 U	0.006 U	0.006 U	0.005 U	-	0.005 U	0.005 U	-	
Selenium (dissolved)	mg/L	0.005	0.05	0.05	0.005	NLV	NLV		ID	-	-	-	-	-	-	-	-	0.005 U	-	
Silver	mg/L	0.0002	0.034	0.098	0.0002	NLV	NLV		ID	0.0005 U	0.001 U	0.001 U	0.00062 U	0.00062 U	0.0002 U	-	0.0005 U	0.001 U	-	
Silver (dissolved)	mg/L	0.0002	0.034	0.098	0.0002	NLV	NLV		ID	-	-	-	-	-	-	-	-	0.001 U	-	
Sodium	mg/L		230	350		NLV	NLV		ID	63.1	60	110	75	78	48	-	32.7	49	-	
Sodium (dissolved)	mg/L		230	350		NLV	NLV		ID	-	-	-	-	-	-	-	-	49	-	
Thallium	mg/L	0.002	0.002	0.002	0.0037	NLV	NLV		ID	0.002 U	0.001 U	0.001 U	0.0027 U	0.0027 U	0.002 U	-	0.002 U	0.001 U	-	
Thallium (dissolved)	mg/L	0.002	0.002	0.002	0.0037	NLV	NLV		ID	-	-	-	-	-	-	-	-	0.00042 J	-	
Vanadium	mg/L		0.0045	0.062	0.027	NLV	NLV		ID	0.005 U	0.005 U	0.005 U	0.0056 U	0.0056 U	0.004 U	-	0.005 U	0.005 U	-	
Vanadium (dissolved)	mg/L		0.0045	0.062	0.027	NLV	NLV		ID	-	-	-	-	-	-	-	-	0.005 U	-	
Zinc	mg/L	0.05	2.4	5	0.38	NLV	NLV		ID	0.006	0.02 U	0.02 U	0.023 U	0.023 U	0.05 U	-	0.005 U	0.02 U	-	
Zinc (dissolved)	mg/L	0.05	2.4	5	0.38	NLV	NLV		ID	-	-	-	-	-	-	-	-	0.02 U	-	
Gas																				
Ethane	mg/L									-	-	0.022	-	-	-	-	-	-	0.0044	-
Ethene	mg/L									-	-	0.016	-	-	-	-	-	-	0.001 U	-
Methane	mg/L		ID	ID		K	K		AA	-	-	7.5	-	-	-	-	-	2.9	-	
Field Parameters																				
Conductivity, field	mS/cm									0.98	0.98	1.108	-	-	0.911	-	-	0.65	0.75	-
Conductivity, field	uS/cm									-	-	-	834	834	-	-	-	-	-	1190
Dissolved oxygen (DO), field	mg/L		ID	ID	EE	ID	ID			0.61	0.61	0.52	0	0	0.15	-	0.01	0.36	0.3	
Oxidation reduction potential (ORP), millivolts										-28.6	-28.6	-228.8	-127	-127	-244	-	-133.7	-13.4	-120	
pH, field	s.u.		6.5-8.5	6.5-8.5	6.5-9.0	ID	ID			7.02	7.02	7.09	7.28	7.28	7.6	-	6.95	7.6	6.92	
Temperature, sample	Deg C									16.2	16.2	19.3	19.67	19.67	10.15	-	16.92	15.8	14.43	
Turbidity, field	NTU									4.91	4.91	4.45	1.76	1.76	0.71	-	1.01	1.26	1.52	

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-140M	CRA-140M	CRA-140M	CRA-217M	CRA-217M	CRA-217M	CRA-217M	CRA-320M	CRA-320M	CRA-320M	CRA-320M	CRA-320M	CRA-322M	CRA-322M	CRA-322M	CRA-322M	CRA-322M
Sample ID:	GW-11223073-060421-DA-055	GW-11223073-060122-AC-037	GW-12602792-051223-CM-016	GW-17358-052020-DR-021	GW-11223073-051021-DR-006	GW-11223073-052722-AC-014	GW-12602792-051623-DA-047	GW-17358-080118-DR-033	GW-17358-052020-DR-023	GW-11223073-051121-DR-017	GW-11223073-053122-AC-023	GW-12602792-051623-CM-044	GW-17358-080118-DR-034	GW-17358-052020-DR-020	GW-11223073-051021-DR-008	GW-11223073-052722-AC-013	GW-12602792-051623-CM-048
Sample Date:	06/04/2021	06/01/2022	05/12/2023	05/20/2020	05/10/2021	05/27/2022	05/16/2023	08/01/2018	05/20/2020	05/11/2021	05/31/2022	05/16/2023	08/01/2018	05/20/2020	05/10/2021	05/27/2022	05/16/2023
Sample Type:																	
Aquifer	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Parameters	Units																
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (M	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.00053 J	0.00058 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.							

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-140M	CRA-140M	CRA-140M	CRA-217M	CRA-217M	CRA-217M	CRA-217M	CRA-320M	CRA-320M	CRA-320M	CRA-320M	CRA-320M	CRA-322M	CRA-322M	CRA-322M	CRA-322M	CRA-322M	
Sample ID:	GW-11223073-060421-DA-055	GW-11223073-060122-AC-037	GW-12602792-051223-CM-016	GW-17358-052020-DR-021	GW-11223073-051021-DR-006	GW-11223073-052722-AC-014	GW-12602792-051623-DA-047	GW-17358-080118-DR-033	GW-17358-052020-DR-023	GW-11223073-051121-DR-017	GW-11223073-053122-AC-023	GW-12602792-051623-CM-044	GW-17358-080118-DR-034	GW-17358-052020-DR-020	GW-11223073-051021-DR-008	GW-11223073-052722-AC-013	GW-12602792-051623-CM-048	
Sample Date:	06/04/2021	06/01/2022	05/12/2023	05/20/2020	05/10/2021	05/27/2022	05/16/2023	08/01/2018	05/20/2020	05/11/2021	05/31/2022	05/16/2023	08/01/2018	05/20/2020	05/10/2021	05/27/2022	05/16/2023	
Sample Type:																		
Aquifer	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	
Parameters	Units																	
Acenaphthene	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.0051 U	0.005 U	0.00019 U	-	0.0051 U	0.0051 U	0.005 U	0.00019 U	-
Acenaphthylene	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.0051 U	0.005 U	0.00019 U	-	0.0051 U	0.0051 U	0.005 U	0.00019 U	-
Acetophenone	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.0051 U	0.005 U	0.00093 U	-	0.0051 U	0.0051 U	0.005 U	0.00093 U	-
Anthracene	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.0051 U	0.005 U	0.00019 U	-	0.0051 U	0.0051 U	0.005 U	0.00019 U	-
Atrazine	mg/L	0.003 U	-	-	0.003 U	0.003 U	0.0019 U	-	0.0029 U	0.003 U	0.003 U	0.0019 U	-	0.003 U	0.0031 U	0.003 U	0.0019 U	-
Benzaldehyde	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.0019 U	-	0.0048 U	0.0051 U	0.005 U	0.0019 U	-	0.0051 U	0.0051 U	0.005 U	0.0019 U	-
Benzo(a)anthracene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.001 U	0.00019 U	-
Benzo(a)pyrene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.001 U	0.00019 U	-
Benzo(b)fluoranthene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.001 U	0.00019 U	-
Benzo(g,h,i)perylene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.001 U	0.00019 U	-
Benzo(k)fluoranthene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.001 U	0.00019 U	-
Biphenyl (1,1-Biphenyl)	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.0051 U	0.005 U	0.00063 J	-	0.0051 U	0.0051 U	0.005 U	0.00093 U	-
bis(2-Chloroethoxy)methane	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.0051 U	0.005 U	0.00093 U	-	0.0051 U	0.0051 U	0.005 U	0.00093 U	-
bis(2-Chloroethyl)ether	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.00096 U	-	0.00095 U	0.001 U	0.001 U	0.00093 U	-	0.001 U	0.001 U	0.001 U	0.00093 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.0048 U	-	0.0048 U	0.0051 U	0.005 U	0.0046 U	-	0.0051 U	0.0051 U	0.005 U	0.0046 U	-
Butyl benzylphthalate (BBP)	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.0019 U	-	0.0048 U	0.0051 U	0.005 U	0.0019 U	-	0.0051 U	0.0051 U	0.005 U	0.0019 U	-
Caprolactam	mg/L	0.01 U	-	-	0.01 U	0.0096 U	0.0048 U	-	0.0095 U	0.01 U	0.01 U	0.0046 U	-	0.0051 U	0.01 U	0.01 U	0.0046 U	-
Carbazole	mg/L	0.01 U	-	-	0.01 U	0.01 U	0.00096 U	-	0.0095 U	0.01 U	0.01 U	0.00093 U	-	0.01 U	0.01 U	0.01 U	0.00093 U	-
Chrysene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.001 U	0.00019 U	-
Dibenz(a,h)anthracene	mg/L	0.002 U	-	-	0.002 U	0.002 U	0.00019 U	-	0.0019 U	0.002 U	0.002 U	0.00019 U	-	0.002 U	0.002 U	0.002 U	0.00019 U	-
Dibenzofuran	mg/L	0.004 U	-	-	0.004 U	0.004 U	0.00096 U	-	0.0038 U	0.004 U	0.004 U	0.00093 U	-	0.004 U	0.0041 U	0.004 U	0.00093 U	-
Diethyl phthalate	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.0048 U	-	0.0048 U	0.0051 U	0.005 U	0.0046 U	-	0.0051 U	0.0051 U	0.005 U	0.0046 U	-
Dimethyl phthalate	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.0019 U	-	0.0048 U	0.0051 U	0.005 U	0.0019 U	-	0.0051 U	0.0051 U	0.005 U	0.0019 U	-
Di-n-butylphthalate (DBP)	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.0048 U	-	0.0048 U	0.0051 U	0.005 U	0.0046 U	-	0.0051 U	0.0051 U	0.005 U	0.0046 U	-
Di-n-octyl phthalate (DnOP)	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.0019 U	-	0.0048 U	0.0051 U	0.005 U	0.0019 U	-	0.0051 U	0.0051 U	0.005 U	0.0019 U	-
Fluoranthene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.001 U	0.00019 U	-
Fluorene	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.0051 U	0.005 U	0.00019 U	-	0.0051 U	0.0051 U	0.005 U	0.00019 U	-
Hexachlorobenzene	mg/L	0.0002 U	-	-	0.0002 U	0.0002 U	0.00019 U	-	0.00019 U	0.0002 U	0.0002 U	0.00019 U	-	0.0002 U	0.0002 U	0.0002 U	0.00019 U	-
Hexachlorobutadiene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.00096 U	-	0.00095 U	0.001 U	0.001 U	0.00093 U	-	0.001 U	0.001 U	0.001 U	0.00093 U	-
Hexachlorocyclopentadiene	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.0096 U	-	0.0048 U	0.0051 U	0.005 U	0.0093 U	-	0.0051 U	0.0051 U	0.005 U	0.0093 U	-
Hexachloroethane	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.0051 U	0.005 U	0.00093 U	-	0.0051 U	0.0051 U	0.005 U	0.00093 U	-
Indeno(1,2,3-cd)pyrene	mg/L	0.002 U	-	-	0.002 U	0.002 U	0.00019 U	-	0.0019 U	0.002 U	0.002 U	0.00019 U	-	0.002 U	0.002 U	0.002 U	0.00019 U	-
Isophorone	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.0051 U	0.005 U	0.00093 U	-	0.0051 U	0.0051 U	0.005 U	0.00093 U	-
Naphthalene	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.0051 U	0.005 U	0.00019 U	-	0.0051 U	0.0051 U	0.005 U	0.00019 U	-
Nitrobenzene	mg/L	0.003 U	-	-	0.003 U	0.003 U	0.00096 U	-	0.0029 U	0.003 U	0.003 U	0.00093 U	-	0.003 U	0.0031 U	0.003 U	0.00093 U	-
N-Nitrosodi-n-propylamine	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.0051 U	0.005 U	0.00093 U	-	0.0051 U	0.0051 U	0.005 U	0.00093 U	-
N-Nitrosodiphenylamine	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.0051 U	0.005 U	0.00093 U	-	0.0051 U	0.0051 U	0.005 U	0.00093 U	-
Pentachlorophenol	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.0096 U	-	0.0048 U	0.0051 U	0.005 U	0.0093 U	-	0.0051 U	0.0051 U	0.005 U	0.0093 U	-
Phenanthrene	mg/L	0.002 U	-	-	0.002 U	0.002 U	0.00019 U	-	0.0019 U	0.002 U	0.002 U	0.00019 U	-	0.002 U	0.002 U	0.002 U	0.00019 U	-
Phenol	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.0051 U	0.005 U	0.00093 U	-	0.0051 U	0.0051 U	0.005 U	0.00093 U	-
Pyrene	mg/L	0.005 U	-	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.0051 U	0.005 U	0.00019 U	-	0.0051 U	0.0051 U	0.005 U	0.00019 U	-
Metals																		
Aluminum	mg/L	0.257	2.1 ^{xab}	-	0.44	0.283	2.2 ^{xab}	0.38 B	0.05 U	0.05 U	0.01 U	0.05 U	0.047 U	0.05 U	0.05 U	0.028	0.13	0.087 JB
Aluminum (dissolved)	mg/L	0.041	0.05 U	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Antimony	mg/L	0.005 U	0.002 U	-	0.00083 J	0.005 U	0.0014 J	0.0075 U	0.002 U	0.002 U	0.005 U	0.0006 J	0.0075 U	0.002 U	0.0051	0.005 U	0.002	0.0075 U
Antimony (dissolved)	mg/L	0.005 U	0.002 U	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Arsenic	mg/L	0.002 U	0.002 J	-	0.0013 J	0.002 U	0.003 J	0.0041 U	0.0014 J	0.005 U	0.002 U	0.001 J	0.0041 U	0.0064	0.0021 J	0.002	0.0027 J	0.0044 J
Arsenic (dissolved)	mg/L	0.002 U	0.005 U	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Barium	mg/L	0.108	0.16	-	0.029 J	0.024	0.027	0.021 J	0.027 J	0.02 J	0.043	0.038	0.045 J	0.066 J	0.0086 J	0.015	0.026	0.041 J
Barium (dissolved)	mg/L	0.111	0.14	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Beryllium	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 U
Beryllium (dissolved)	mg/L	0.001 U	0.001 U	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Cadmium	mg/L	0.0005 U	0.001 U	-	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.001 U	0.0005 U	0.001 U	0.00045 U
Cadmium (dissolved)	mg/L	0.0005 U	0.001 U	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Calcium	mg/L	273	260	-	30	32.8	30	31	68	34	85.4	39	36	140	36	54.6	72	57
Calcium (dissolved)	mg/L	294	250	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Chromium	mg/L	0.005 U	0.0042 J	-	0.0055 J	0.005	0.0095	0.0029 J	0.01 U	0.0026 J	0.005 U	0.005 U	0.00076 U	0.01 U	0.01 U	0.005 U	0.005 U	0.00076 U
Chromium (dissolved)	mg/L	0.005 U	0.005 U	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Cobalt	mg/L	0.005 U	0.0033	-	0.00044 J	0.005 U	0.0015	0.00075 U	0.00033 J	0.02 U	0.005 U	0.001 U	0.00075 U	0.0007 J	0.02 U	0.005 U	0.00052 J	0.00075 U
Cobalt (dissolved)	mg/L	0.005 U	0.002	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Copper	mg/L	0.005 U	0.0086	-	0.011	0.013	0.028	0.011 J	0.004 U	0.0024 J	0.005 U	0.0019 J	0.0035 U	0.004 U	0.0045	0.005 U	0.0044	0.004 J
Copper (dissolved)	mg/L	0.005 U	0.002 U	-	-	-	-	--	-	-	-	-	--	-	-	-	-	--
Iron	mg/L	0.39	3.3 ^{xab}	-	0.54	0.45	4 ^{xab}											

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		CRA-140M			CRA-140M			CRA-140M			CRA-217M			CRA-217M			CRA-217M			CRA-217M			CRA-320M			CRA-320M			CRA-320M			CRA-320M			CRA-320M			CRA-322M			CRA-322M			CRA-322M			CRA-322M			CRA-322M		
Sample ID:		GW-11223073-060421-DA-055			GW-11223073-060122-AC-037			GW-12602792-051223-CM-016			GW-17358-052020-DR-021			GW-11223073-051021-DR-006			GW-11223073-052722-AC-014			GW-12602792-051623-DA-047			GW-17358-080118-DR-033			GW-17358-052020-DR-023			GW-11223073-051121-DR-017			GW-11223073-053122-AC-023			GW-12602792-051623-CM-044			GW-17358-080118-DR-034			GW-17358-052020-DR-020			GW-11223073-051021-DR-008			GW-11223073-052722-AC-013			GW-12602792-051623-CM-048		
Sample Date:		06/04/2021			06/01/2022			05/12/2023			05/20/2020			05/10/2021			05/27/2022			05/16/2023			08/01/2018			05/20/2020			05/11/2021			05/31/2022			05/16/2023			08/01/2018			05/20/2020			05/10/2021			05/27/2022			05/16/2023		
Sample Type:																																																				
Aquifer		Shallow-PCE Area			Shallow-PCE Area			Shallow-PCE Area			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow								
Parameters		Units																																																		
Potassium		mg/L	9.12	6.7	-				35	29.5	21	22				4.1	3	5.98	7.3	4.8 J				6	1.6	2.16	2.3	4.8 J																								
Potassium (dissolved)		mg/L	8.05	6	-				-	-	-	-				-	-	-	-	-				-	-	-	-	-																								
Selenium		mg/L	0.005 U	0.001 J	-				0.0013 J	0.005 U	0.0012 J	0.006 U				0.005 U	0.005 U	0.005 U	0.005 U	0.006 U				0.005 U	0.005 U	0.005 U	0.005 U	0.006 U																								
Selenium (dissolved)		mg/L	0.005 U	0.001 J	-				-	-	-	-				-	-	-	-	-				-	-	-	-	-																								
Silver		mg/L	0.0005 U	0.001 U	-				0.0002 U	0.0005 U	0.001 U	0.00062 U				0.0002 U	0.0002 U	0.0005 U	0.001 U	0.00062 U				0.0002 U	0.0002 U	0.0005 U	0.001 U	0.00062 U																								
Silver (dissolved)		mg/L	0.0005 U	0.001 U	-				-	-	-	-				-	-	-	-	-				-	-	-	-	-																								
Sodium		mg/L	84.7	130	-				160	127	92	83				49	41	32.5	54	79				35	5.5	9.9	17	16																								
Sodium (dissolved)		mg/L	98.9	140	-				-	-	-	-				-	-	-	-	-				-	-	-	-	-																								
Thallium		mg/L	0.002 U	0.001 U	-				0.002 U	0.002 U	0.001 U	0.0027 U				0.002 U	0.002 U	0.002 U	0.001 U	0.0027 U				0.002 U	0.002 U	0.002 U	0.001 U	0.0027 U																								
Thallium (dissolved)		mg/L	0.002 U	0.001 U	-				-	-	-	-				-	-	-	-	-				-	-	-	-	-																								
Vanadium		mg/L	0.005 U	0.0066 ^a	-				0.0021 J	0.005 U	0.0064 ^a	0.0056 U				0.004 U	0.001 J	0.005 U	0.00095 J	0.0056 U				0.0011 J	0.004 U	0.005 U	0.005 U	0.0056 U																								
Vanadium (dissolved)		mg/L	0.005 U	0.005 U	-				-	-	-	-				-	-	-	-	-				-	-	-	-	-																								
Zinc		mg/L	0.015	0.045	-				0.05 U	0.006	0.04	0.023 U				0.05 U	0.05 U	0.005 U	0.02 U	0.023 U				0.05 U	0.05 U	0.005 U	0.016 J	0.023 U																								
Zinc (dissolved)		mg/L	0.01	0.02 U	-				-	-	-	-				-	-	-	-	-				-	-	-	-	-																								
Gas																																																				
Ethane		mg/L	-	0.0004 J	-				-	-	0.00029 J	-				0.001 U	-	-	0.00029 J	-				0.001 U	-	-	0.00039 J	-																								
Ethene		mg/L	-	0.001 U	-				-	-	0.001 U	-				0.001 U	-	-	0.001 U	-				0.001 U	-	-	0.001 U	-																								
Methane		mg/L	-	0.038	-				-	-	1	-				0.0054	-	-	0.0031	-				0.063	-	-	2.7	-																								
Field Parameters																																																				
Conductivity, field		mS/cm	1.7	2.077	-				1.04	0.76	0.612	-				0.58	0.387	0.616	0.489	-				0.813	0.225	0.31	0.434	-																								
Conductivity, field		uS/cm	-	-	2320				-	-	-	63.9				-	-	-	-	619				-	-	-	-	406																								
Dissolved oxygen (DO), field		mg/L	0.42	1.33	0				4.24	5.65	0.85	0.35				0.29	0.34	0.5	1.05	0				0.41	0.32	0.31	0.91	0																								
Oxidation reduction potential (ORP), millivolts			-31.2	87	17				75	33.2	36.4	31				-78.8	69	33	12.4	-176				-45	0	-94.9	-17.7	-101																								
pH, field		s.u.	6.86	7.63	7.27				7.63	7.56	7.62	7.84				7.42	7.8	7.25	8.08	7.58				7.12	7.73	7.64	7.19	7.03																								
Temperature, sample		Deg C	17.61	15.2	16.27				12.2	11.74	19.7	17.26				21.18	13.1	10.22	20.6	12.84				21.18	11.2	11.32	16	19.64																								
Turbidity, field		NTU	77.42	138	4.77				4.69	4.33	4.96	4.68				0.77	1.31	1.22	1.26	4.07				4.78	2.96	3.71	3.06	4.82																								

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-342M	CRA-342M	CRA-342M	CRA-343M	CRA-343M	CRA-343M	CRA-343M	CRA-343M	CRA-604M	CRA-605M	CRA-605M	CRA-605M	CRA-605M	CRA-609M	CRA-609M	CRA-609M	CRA-609M
Sample ID:	GW-17358-073118-DR-026	GW-11223073-060222-AC-047	GW-12602792-051623-DA-045	GW-17358-080118-DR-029	GW-17358-052020-DR-022	GW-11223073-051021-DR-005	GW-11223073-053122-AC-022	GW-12602792-051623-CM-046	GW-11223073-060421-DA-056	GW-17358-083018-DR-107	GW-11223073-051121-DR-018	GW-11223073-053122-AC-026	GW-12602792-051523-CM-022	GW-17358-051420-DR-004	GW-17358-102120-DR-003	GW-11223073-071921-DA-001	GW-11223073-060222-AC-044
Sample Date:	07/31/2018	06/02/2022	05/16/2023	08/01/2018	05/20/2020	05/10/2021	05/31/2022	05/16/2023	06/04/2021	08/30/2018	05/11/2021	05/31/2022	05/15/2023	05/14/2020	10/21/2020	07/19/2021	06/02/2022
Sample Type:																	
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow
Parameters	Units																
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.00095 J	0.0013	0.002	0.00069 J
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00022 J	0.00027 J	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.002 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (V	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U								

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-342M	CRA-342M	CRA-342M	CRA-343M	CRA-343M	CRA-343M	CRA-343M	CRA-343M	CRA-604M	CRA-605M	CRA-605M	CRA-605M	CRA-605M	CRA-609M	CRA-609M	CRA-609M	CRA-609M	
Sample ID:	GW-17358-073118-DR-026	GW-11223073-060222-AC-047	GW-12602792-051623-DA-045	GW-17358-080118-DR-029	GW-17358-052020-DR-022	GW-11223073-051021-DR-005	GW-11223073-053122-AC-022	GW-12602792-051623-CM-046	GW-11223073-060421-DA-056	GW-17358-083018-DR-107	GW-11223073-051121-DR-018	GW-11223073-053122-AC-026	GW-12602792-051523-CM-022	GW-17358-051420-DR-004	GW-17358-102120-DR-003	GW-11223073-071921-DA-001	GW-11223073-060222-AC-044	
Sample Date:	07/31/2018	06/02/2022	05/16/2023	08/01/2018	05/20/2020	05/10/2021	05/31/2022	05/16/2023	06/04/2021	08/30/2018	05/11/2021	05/31/2022	05/15/2023	05/14/2020	10/21/2020	07/19/2021	06/02/2022	
Sample Type:																		
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	
Parameters	Units																	
Acenaphthene	mg/L	0.0048 U	0.00019 U	-	0.0048 U	0.0052 U	0.005 U	0.0002 U	-	0.005 U	0.0048 U	0.005 U	0.0002 U	-	0.0051 U	-	0.005 U	0.00021 U
Acenaphthylene	mg/L	0.0048 U	0.00019 U	-	0.0048 U	0.0052 U	0.005 U	0.0002 U	-	0.005 U	0.0048 U	0.005 U	0.0002 U	-	0.0051 U	-	0.005 U	0.00021 U
Acetophenone	mg/L	0.0048 U	0.00093 U	-	0.0048 U	0.0052 U	0.005 U	0.001 U	-	0.005 U	0.0048 U	0.005 U	0.001 U	-	0.0051 U	-	0.005 U	0.001 U
Anthracene	mg/L	0.0048 U	0.00019 U	-	0.0048 U	0.0052 U	0.005 U	0.0002 U	-	0.005 U	0.0048 U	0.005 U	0.0002 U	-	0.0051 U	-	0.005 U	0.00021 U
Atrazine	mg/L	0.0029 U	0.0019 U	-	0.0029 U	0.0031 U	0.003 U	0.002 U	-	0.003 U	0.0029 U	0.003 U	0.002 U	-	0.003 U	-	0.003 U	0.0021 U
Benzaldehyde	mg/L	0.0048 U	0.0019 U	-	0.0048 U	0.0052 U	0.005 U	0.002 U	-	0.005 U	0.0048 U	0.005 U	0.002 U	-	0.0051 U	-	0.005 U	0.0021 U
Benzo(a)anthracene	mg/L	0.00095 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.00096 U	0.001 U	0.0002 U	-	0.001 U	-	0.001 U	0.00021 U
Benzo(a)pyrene	mg/L	0.00095 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.00096 U	0.001 U	0.0002 U	-	0.001 U	-	0.001 U	0.00021 U
Benzo(b)fluoranthene	mg/L	0.00095 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.00096 U	0.001 U	0.0002 U	-	0.001 U	-	0.001 U	0.00021 U
Benzo(g,h,i)perylene	mg/L	0.00095 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.00096 U	0.001 U	0.0002 U	-	0.001 U	-	0.001 U	0.00021 U
Benzo(k)fluoranthene	mg/L	0.00095 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.00096 U	0.001 U	0.0002 U	-	0.001 U	-	0.001 U	0.00021 U
Biphenyl (1,1-Biphenyl)	mg/L	0.0048 U	0.00093 U	-	0.0048 U	0.0052 U	0.005 U	0.001 U	-	0.005 U	0.0048 U	0.005 U	0.001 U	-	0.0051 U	-	0.005 U	0.001 U
bis(2-Chloroethoxy)methane	mg/L	0.0048 U	0.00093 U	-	0.0048 U	0.0052 U	0.005 U	0.001 U	-	0.005 U	0.0048 U	0.005 U	0.001 U	-	0.0051 U	-	0.005 U	0.001 U
bis(2-Chloroethyl)ether	mg/L	0.00095 U	0.00093 U	-	0.00095 U	0.001 U	0.001 U	0.00095 U	-	0.001 U	0.00096 U	0.001 U	0.001 U	-	0.001 U	-	0.001 U	0.001 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.0048 U	0.0046 U	-	0.0048 U	0.0052 U	0.005 U	0.005 U	-	0.005 U	0.0048 U	0.005 U	0.005 U	-	0.0051 U	-	0.005 U	0.0052 U
Butyl benzylphthalate (BBP)	mg/L	0.0048 U	0.0019 U	-	0.0048 U	0.0052 U	0.005 U	0.002 U	-	0.005 U	0.0048 U	0.005 U	0.002 U	-	0.0051 U	-	0.005 U	0.0021 U
Caprolactam	mg/L	0.0095 U	0.0046 U	-	0.0095 U	0.01 U	0.01 U	0.005 U	-	0.01 U	0.0096 U	0.01 U	0.005 U	-	0.01 U	-	0.01 U	0.0052 U
Carbazole	mg/L	0.0095 U	0.00093 U	-	0.0095 U	0.01 U	0.01 U	0.001 U	-	0.01 U	0.0096 U	0.01 U	0.001 U	-	0.01 U	-	0.01 U	0.001 U
Chrysene	mg/L	0.00095 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.00096 U	0.001 U	0.0002 U	-	0.001 U	-	0.001 U	0.00021 U
Dibenz(a,h)anthracene	mg/L	0.0019 U	0.00019 U	-	0.0019 U	0.0021 U	0.002 U	0.0002 U	-	0.002 U	0.0019 U	0.002 U	0.0002 U	-	0.002 U	-	0.002 U	0.00021 U
Dibenzofuran	mg/L	0.0038 U	0.00093 U	-	0.0038 U	0.0041 U	0.004 U	0.001 U	-	0.004 U	0.0038 U	0.004 U	0.001 U	-	0.004 U	-	0.004 U	0.001 U
Diethyl phthalate	mg/L	0.0048 U	0.0046 U	-	0.0048 U	0.0052 U	0.005 U	0.005 U	-	0.005 U	0.0048 U	0.005 U	0.005 U	-	0.0051 U	-	0.005 U	0.0052 U
Dimethyl phthalate	mg/L	0.0048 U	0.0019 U	-	0.0048 U	0.0052 U	0.005 U	0.002 U	-	0.005 U	0.0048 U	0.005 U	0.002 U	-	0.0051 U	-	0.005 U	0.0021 U
Di-n-butylphthalate (DBP)	mg/L	0.0048 U	0.0046 U	-	0.0048 U	0.0052 U	0.005 U	0.005 U	-	0.005 U	0.0048 U	0.005 U	0.005 U	-	0.0051 U	-	0.005 U	0.0052 U
Di-n-octyl phthalate (DnOP)	mg/L	0.0048 U	0.0019 U	-	0.0048 U	0.0052 U	0.005 U	0.002 U	-	0.005 U	0.0048 U	0.005 U	0.002 U	-	0.0051 U	-	0.005 U	0.0021 U
Fluoranthene	mg/L	0.00095 U	0.00019 U	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.00096 U	0.001 U	0.0002 U	-	0.001 U	-	0.001 U	0.00021 U
Fluorene	mg/L	0.0048 U	0.00019 U	-	0.0048 U	0.0052 U	0.005 U	0.0002 U	-	0.005 U	0.0048 U	0.005 U	0.0002 U	-	0.0051 U	-	0.005 U	0.00021 U
Hexachlorobenzene	mg/L	0.00019 U	0.00019 U	-	0.00019 U	0.00021 U	0.0002 U	0.0002 U	-	0.0002 U	0.00019 U	0.0002 U	0.0002 U	-	0.0002 U	-	0.01 U	0.00021 U
Hexachlorobutadiene	mg/L	0.00095 U	0.00093 U	-	0.00095 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.00096 U	0.001 U	0.001 U	-	0.001 U	-	0.001 U	0.001 U
Hexachlorocyclopentadiene	mg/L	0.0048 U	0.0093 U	-	0.0048 U	0.0052 U	0.005 U	0.01 U	-	0.005 U	0.0048 U	0.005 U	0.01 U	-	0.0051 U	-	0.005 U	0.01 U
Hexachloroethane	mg/L	0.0048 U	0.00093 U	-	0.0048 U	0.0052 U	0.005 U	0.001 U	-	0.005 U	0.0048 U	0.005 U	0.001 U	-	0.0051 U	-	0.005 U	0.001 U
Indeno(1,2,3-cd)pyrene	mg/L	0.0019 U	0.00019 U	-	0.0019 U	0.0021 U	0.002 U	0.0002 U	-	0.002 U	0.0019 U	0.002 U	0.0002 U	-	0.002 U	-	0.002 U	0.00021 U
Isophorone	mg/L	0.0048 U	0.00093 U	-	0.0048 U	0.0052 U	0.005 U	0.001 U	-	0.005 U	0.0048 U	0.005 U	0.001 U	-	0.0051 U	-	0.005 U	0.001 U
Naphthalene	mg/L	0.0048 U	0.00019 U	-	0.0048 U	0.0052 U	0.005 U	0.0002 U	-	0.005 U	0.0048 U	0.005 U	0.0002 U	-	0.0051 U	-	0.005 U	0.00021 U
Nitrobenzene	mg/L	0.0029 U	0.00093 U	-	0.0029 U	0.0031 U	0.003 U	0.001 U	-	0.003 U	0.0029 U	0.003 U	0.001 U	-	0.003 U	-	0.003 U	0.001 U
N-Nitrosodi-n-propylamine	mg/L	0.0048 U	0.00093 U	-	0.0048 U	0.0052 U	0.005 U	0.001 U	-	0.005 U	0.0048 U	0.005 U	0.001 U	-	0.0051 U	-	0.005 U	0.001 U
N-Nitrosodiphenylamine	mg/L	0.0048 U	0.00093 U	-	0.0048 U	0.0052 U	0.005 U	0.001 U	-	0.005 U	0.0048 U	0.005 U	0.001 U	-	0.0051 U	-	0.005 U	0.001 U
Pentachlorophenol	mg/L	0.0048 U	0.0093 U	-	0.0048 U	0.0052 U	0.005 U	0.01 U	-	0.005 U	0.0048 U	0.005 U	0.01 U	-	0.0051 U	-	0.005 U	0.01 U
Phenanthrene	mg/L	0.0019 U	0.00019 U	-	0.0019 U	0.0021 U	0.002 U	0.0002 U	-	0.002 U	0.0019 U	0.002 U	0.0002 U	-	0.002 U	-	0.002 U	0.00021 U
Phenol	mg/L	0.0048 U	0.00093 U	-	0.0048 U	0.0052 U	0.005 U	0.001 U	-	0.005 U	0.0048 U	0.005 U	0.001 U	-	0.0051 U	-	0.005 U	0.001 U
Pyrene	mg/L	0.0048 U	0.00019 U	-	0.0048 U	0.0052 U	0.005 U	0.0002 U	-	0.005 U	0.0048 U	0.005 U	0.0002 U	-	0.0051 U	-	0.005 U	0.00021 U
Metals																		
Aluminum	mg/L	0.05 U	0.26	0.11 JB	0.16	0.12	0.035	0.05 U	0.11 JB	0.01 U	0.24	0.105	0.093	0.081 J	0.05 U	-	0.644 ^{xab}	0.05 U
Aluminum (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.01 U	-	-	0.05 U	--	-	-	-	-
Antimony	mg/L	0.002 U	0.00073 J	0.0075 U	0.002 U	0.0011 J	0.005 U	0.002 U	0.0075 U	0.005 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.002 U	-	0.005 U	0.002 U
Antimony (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.005 U	-	-	0.002 U	-	-	-	-	-
Arsenic	mg/L	0.005 U	0.005 U	0.0041 U	0.004 J	0.0018 J	0.004	0.018 ^{abc}	0.0085 J	0.002 U	0.0035 J	0.004	0.0013 J	0.0048 J	0.005 U	-	0.002 U	0.005 U
Arsenic (dissolved)	mg/L	-	-	--	-	-	-	-	-	0.002 U	-	-	0.0014 J	-	-	-	-	-
Barium	mg/L	0.068 J	0.04	0.062 J	0.0079 J	0.0082 J	0.012	0.26	0.083 J	0.099	0.2	0.108	0.07	0.067 J	0.13	-	0.115	0.14
Barium (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.1	-	-	0.076	--	-	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	0.0006 U	0.00043 J	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	-	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.001 U	-	-	0.001 U	-	-	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.00045 U	0.001 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.0005 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	-	0.0005 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.0005 U	-	-	0.001 U	-	-	-	-	-
Calcium	mg/L	74	49	66	14	35	41.1	110	78	158	130	80.9	59	43	230	-	180	150
Calcium (dissolved)	mg/L	-	-	--	-	-	-	-	--	157	-	-	66	--	-	-	-	-
Chromium	mg/L	0.01 U	0.005 U	0.00076 U	0.01 U	0.01 U	0.005 U	0.005 U	0.00076 U	0.005 U	0.01 U	0.005 U	0.005 U	0.00076 U	0.01 U	-	0.005 U	0.005 U
Chromium (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.005 U	-	-	0.005 U	-	-	-	-	-
Cobalt	mg/L	0.00061 J	0.0022	0.0015 J	0.00098 J	0.02 U	0.005 U	0.00023 J	0.00075 U	0.005 U	0.00083 J	0.005 U	0.001	0.0011 J	0.0023 J	-	0.005 U	0.001
Cobalt (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.005 U	-	-	0.0011	--	-	-	-	-
Copper	mg/L	0.004 U	0.002 U	0.0035 U	0.011	0.006	0.005	0.002 U	0.0035 U	0.005 U	0.0019 J	0.005 U	0.002 U	0.0035 U	0.004 U	-	0.00	

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		CRA-342M	CRA-342M	CRA-342M	CRA-343M	CRA-343M	CRA-343M	CRA-343M	CRA-343M	CRA-604M	CRA-605M	CRA-605M	CRA-605M	CRA-605M	CRA-609M	CRA-609M	CRA-609M	CRA-609M
Sample ID:		GW-17358-073118-DR-026	GW-11223073-060222-AC-047	GW-12602792-051623-DA-045	GW-17358-080118-DR-029	GW-17358-052020-DR-022	GW-11223073-051021-DR-005	GW-11223073-053122-AC-022	GW-12602792-051623-CM-046	GW-11223073-060421-DA-056	GW-17358-083018-DR-107	GW-11223073-051121-DR-018	GW-11223073-053122-AC-026	GW-12602792-051523-CM-022	GW-17358-051420-DR-004	GW-17358-102120-DR-003	GW-11223073-071921-DA-001	GW-11223073-060222-AC-044
Sample Date:		07/31/2018	06/02/2022	05/16/2023	08/01/2018	05/20/2020	05/10/2021	05/31/2022	05/16/2023	06/04/2021	08/30/2018	05/11/2021	05/31/2022	05/15/2023	05/14/2020	10/21/2020	07/19/2021	06/02/2022
Sample Type:																		
Aquifer		Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow
Parameters		Units																
Potassium	mg/L	1.8	1.1	1.9 J	3.1	2	1.53	3.7	4.9 J	3.93	2.8	2.53	1.8	2 J	4.2	-	4.56	4.3
Potassium (dissolved)	mg/L	-	-	--	-	-	-	-	--	4.22	-	-	2	--	-	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	-	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.005 U	-	-	0.005 U	--	-	-	-	-
Silver	mg/L	0.0002 U	0.001 U	0.00062 U	0.0002 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0005 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	-	0.0005 U	0.001 U
Silver (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.0005 U	-	-	0.001 U	--	-	-	-	-
Sodium	mg/L	92	56	53	110	21	75.1	220	180	62.7	120	313 ^a	210	170	84	-	72.6	40
Sodium (dissolved)	mg/L	-	-	--	-	-	-	-	--	68.1	-	-	240 ^a	--	-	-	-	-
Thallium	mg/L	0.002 U	0.001 U	0.0027 U	0.002 U	0.002 U	0.002 U	0.00029 J	0.0027 U	0.002 U	0.002 U	0.002 U	0.001 U	0.006 J ^{abc}	0.00055 J	-	0.002 U	0.001 U
Thallium (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.002 U	-	-	0.001 U	--	-	-	-	-
Vanadium	mg/L	0.004 U	0.005 U	0.0056 U	0.0022 J	0.00094 J	0.005 U	0.005 U	0.0056 U	0.005 U	0.0012 J	0.005 U	0.005 U	0.0056 U	0.004 U	-	0.005 U	0.005 U
Vanadium (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.005 U	-	-	0.005 U	--	-	-	-	-
Zinc	mg/L	0.05 U	0.02 U	0.023 U	0.05 U	0.05 U	0.005 U	0.02 U	0.023 U	0.006	0.025 J	0.014	0.02 U	0.023 U	0.05 U	-	0.268	0.02 U
Zinc (dissolved)	mg/L	-	-	--	-	-	-	-	--	0.006	-	-	0.02 U	--	-	-	-	-
Gas																		
Ethane	mg/L	0.001 U	0.001 U	-	0.001 U	-	-	0.00078 J	-	-	0.001 U	-	0.001 U	-	-	-	-	0.00056 J
Ethene	mg/L	0.001 U	0.001 U	-	0.001 U	-	-	0.00092 J	-	-	0.001 U	-	0.001 U	-	-	-	-	0.001 U
Methane	mg/L	0.0025	0.0002 J	-	0.28	-	-	13	-	-	0.0059	-	0.35	-	-	-	-	0.13
Field Parameters																		
Conductivity, field	mS/cm	0.756	0.419	-	0.59	0.299	0.52	1.672	-	1.12	1.44	1.81	1.316	-	1.73	-	1.24	1.122
Conductivity, field	uS/cm	-	-	64.8	-	-	-	-	1310	-	-	-	-	1090	-	-	-	-
Dissolved oxygen (DO), field	mg/L	0.16	0.68	0	0.15	2.8	1.09	1.07	0	0	0	0.03	0.62	0	0.21	-	0.29	0.06
Oxidation reduction potential (ORP), millivolts		0	67.1	-60	-6.6	65	-32.6	-118.2	-163	-30.4	-103.1	-126.2	-218	-125	-4	-	-33.3	-14.3
pH, field	s.u.	7.29	7.75	7.75	7.91	7.74	7.53	7.47	7.38	7.1	7.18	7.38	7.44	7.44	7.53	-	7.04	7.18
Temperature, sample	Deg C	22.08	14	16.15	21.47	13.7	11.59	18.8	16.67	16.08	21.2	11.95	16.4	12.34	10.3	-	22	13.3
Turbidity, field	NTU	3	1.78	1.51	9.94	2.51	3.76	2.25	4.97	40.07	20.9	4.31	6.08	4.66	0.58	-	-	1.37

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-609M	CRA-609M	CRA-613M	CRA-613M	CRA-613M	CRA-615M	CRA-615M	CRA-615M	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-725I	CRA-725I	CRA-725I
Sample ID:	GW-11223073-060222-AC-045	GW-12602792-051123-LK-003	GW-17358-051820-DR-012	WG-11223073-052622-AC-005	GW-12602792-051623-DA-054	GW-17358-051820-DR-008	WG-11223073-052622-AC-009	GW-12602792-051623-DR-051	GW-17358-102220-DR-014	GW-17358-102220-DR-015	GW-11223073-060321-DA-047	GW-11223073-060321-DA-048	GW-11223073-053122-AC-019	GW-12602792-051123-LK-001	GW-17358-080718-DA-075	GW-11223073-051221-DR-026	GW-11223073-051221-DR-027
Sample Date:	06/02/2022	05/11/2023	05/18/2020	05/26/2022	05/16/2023	05/18/2020	05/26/2022	05/16/2023	10/22/2020	10/22/2020	06/03/2021	06/03/2021	05/31/2022	05/11/2023	08/07/2018	05/12/2021	05/12/2021
Sample Type:	Duplicate									Duplicate		Duplicate					Duplicate
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Parameters	Units																
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	mg/L	0.00081 J	0.00094 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.001 U	0.002 U	0.001 U	-	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (M	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	-	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002	0.002
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-	-	0.002 U</						

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-609M	CRA-609M	CRA-613M	CRA-613M	CRA-613M	CRA-615M	CRA-615M	CRA-615M	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-725I	CRA-725I	CRA-725I
Sample ID:	GW-11223073-060222-AC-045	GW-12602792-051123-LK-003	GW-17358-051820-DR-012	WG-11223073-052622-AC-005	GW-12602792-051623-DA-054	GW-17358-051820-DR-008	WG-11223073-052622-AC-009	GW-12602792-051623-DR-051	GW-17358-102220-DR-014	GW-17358-102220-DR-015	GW-11223073-060321-DA-047	GW-11223073-060321-DA-048	GW-11223073-053122-AC-019	GW-11223073-051123-LK-001	GW-17358-080718-DA-075	GW-11223073-051221-DR-026	GW-11223073-051221-DR-027	
Sample Date:	06/02/2022	05/11/2023	05/18/2020	05/26/2022	05/16/2023	05/18/2020	05/26/2022	05/16/2023	10/22/2020	10/22/2020	06/03/2021	06/03/2021	05/31/2022	05/11/2023	08/07/2018	05/12/2021	05/12/2021	
Sample Type:	Duplicate									Duplicate		Duplicate					Duplicate	
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	
Parameters	Units																	
Acenaphthene	mg/L	0.00021 U	-	0.0051 U	0.00019 U	-	0.0052 U	0.00019 U	-	-	0.005 U	0.0051 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	
Acenaphthylene	mg/L	0.00021 U	-	0.0051 U	0.00019 U	-	0.0052 U	0.00019 U	-	-	0.005 U	0.0051 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	
Acetophenone	mg/L	0.001 U	-	0.0051 U	0.00096 U	-	0.0052 U	0.00096 U	-	-	0.005 U	0.0051 U	0.001 U	-	0.005 U	0.005 U	0.005 U	
Anthracene	mg/L	0.00021 U	-	0.0051 U	0.00019 U	-	0.0052 U	0.00019 U	-	-	0.005 U	0.0051 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	
Atrazine	mg/L	0.0021 U	-	0.003 U	0.0019 U	-	0.0031 U	0.0019 U	-	-	0.003 U	0.0031 U	0.002 U	-	0.003 U	0.003 U	0.003 U	
Benzaldehyde	mg/L	0.0021 U	-	0.0051 U	0.0019 U	-	0.0052 U	0.0019 U	-	-	0.005 U	0.0051 U	0.002 U	-	0.005 U	0.005 U	0.005 U	
Benzo(a)anthracene	mg/L	0.00021 U	-	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	-	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	
Benzo(a)pyrene	mg/L	0.00021 U	-	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	-	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	
Benzo(b)fluoranthene	mg/L	0.00021 U	-	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	-	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	
Benzo(g,h,i)perylene	mg/L	0.00021 U	-	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	-	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	
Benzo(k)fluoranthene	mg/L	0.00021 U	-	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	-	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	
Biphenyl (1,1-Biphenyl)	mg/L	0.001 U	-	0.0051 U	0.00096 U	-	0.0052 U	0.00096 U	-	-	0.005 U	0.0051 U	0.001 U	-	0.005 U	0.005 U	0.005 U	
bis(2-Chloroethoxy)methane	mg/L	0.001 U	-	0.0051 U	0.00096 U	-	0.0052 U	0.00096 U	-	-	0.005 U	0.0051 U	0.001 U	-	0.005 U	0.005 U	0.005 U	
bis(2-Chloroethyl)ether	mg/L	0.001 U	-	0.001 U	0.00096 U	-	0.001 U	0.00096 U	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.0052 U	-	0.0051 U	0.0048 U	-	0.0052 U	0.0048 U	-	-	0.005 U	0.0051 U	0.005 U	-	0.005 U	0.005 U	0.005 U	
Butyl benzylphthalate (BBP)	mg/L	0.0021 U	-	0.0051 U	0.0019 U	-	0.0052 U	0.0019 U	-	-	0.005 U	0.0051 U	0.002 U	-	0.005 U	0.005 U	0.005 U	
Caprolactam	mg/L	0.0052 U	-	0.01 U	0.0029 JB	-	0.01 U	0.0048 U	-	-	0.01 U	0.005 U	0.005 U	-	0.01 U	0.01 U	0.01 U	
Carbazole	mg/L	0.001 U	-	0.01 U	0.00096 U	-	0.01 U	0.00096 U	-	-	0.01 U	0.01 U	0.001 U	-	0.01 U	0.01 U	0.01 U	
Chrysene	mg/L	0.00021 U	-	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	-	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	
Dibenz(a,h)anthracene	mg/L	0.00021 U	-	0.002 U	0.00019 U	-	0.0021 U	0.00019 U	-	-	0.002 U	0.002 U	0.0002 U	-	0.002 U	0.002 U	0.002 U	
Dibenzofuran	mg/L	0.001 U	-	0.004 U	0.00096 U	-	0.0041 U	0.00096 U	-	-	0.004 U	0.0041 U	0.001 U	-	0.004 U	0.004 U	0.004 U	
Diethyl phthalate	mg/L	0.0052 U	-	0.0051 U	0.0048 U	-	0.0052 U	0.0048 U	-	-	0.005 U	0.0051 U	0.005 U	-	0.005 U	0.005 U	0.005 U	
Dimethyl phthalate	mg/L	0.0021 U	-	0.0051 U	0.0019 U	-	0.0052 U	0.0019 U	-	-	0.005 U	0.0051 U	0.002 U	-	0.005 U	0.005 U	0.005 U	
Di-n-butylphthalate (DBP)	mg/L	0.0052 U	-	0.0051 U	0.0048 U	-	0.0052 U	0.0048 U	-	-	0.005 U	0.0051 U	0.005 U	-	0.005 U	0.005 U	0.005 U	
Di-n-octyl phthalate (DnOP)	mg/L	0.00093 J	-	0.0051 U	0.0019 U	-	0.0052 U	0.0019 U	-	-	0.005 U	0.0051 U	0.002 U	-	0.005 U	0.005 U	0.005 U	
Fluoranthene	mg/L	0.00021 U	-	0.001 U	0.00023	-	0.001 U	0.00019 U	-	-	0.001 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	
Fluorene	mg/L	0.00021 U	-	0.0051 U	0.00019 U	-	0.0052 U	0.00019 U	-	-	0.005 U	0.0051 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	
Hexachlorobenzene	mg/L	0.00021 U	-	0.0002 U	0.00019 U	-	0.00021 U	0.00019 U	-	-	0.0002 U	0.0002 U	0.0002 U	-	0.0002 U	0.0002 U	0.0002 U	
Hexachlorobutadiene	mg/L	0.001 U	-	0.001 U	0.00096 U	-	0.001 U	0.00096 U	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	
Hexachlorocyclopentadiene	mg/L	0.01 U	-	0.0051 U	0.0096 U	-	0.0052 U	0.0096 U	-	-	0.005 U	0.0051 U	0.01 U	-	0.005 U	0.005 U	0.005 U	
Hexachloroethane	mg/L	0.001 U	-	0.0051 U	0.00096 U	-	0.0052 U	0.00096 U	-	-	0.005 U	0.0051 U	0.001 U	-	0.005 U	0.005 U	0.005 U	
Indeno(1,2,3-cd)pyrene	mg/L	0.00021 U	-	0.002 U	0.00019 U	-	0.0021 U	0.00019 U	-	-	0.002 U	0.002 U	0.0002 U	-	0.002 U	0.002 U	0.002 U	
Isophorone	mg/L	0.001 U	-	0.0051 U	0.00096 U	-	0.0052 U	0.00096 U	-	-	0.005 U	0.0051 U	0.001 U	-	0.005 U	0.005 U	0.005 U	
Naphthalene	mg/L	0.00021 U	-	0.0051 U	0.00019 U	-	0.0052 U	0.00019 U	-	-	0.005 U	0.0051 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	
Nitrobenzene	mg/L	0.001 U	-	0.003 U	0.00096 U	-	0.0031 U	0.00096 U	-	-	0.003 U	0.0031 U	0.001 U	-	0.003 U	0.003 U	0.003 U	
N-Nitrosodi-n-propylamine	mg/L	0.001 U	-	0.0051 U	0.00096 U	-	0.0052 U	0.00096 U	-	-	0.005 U	0.0051 U	0.001 U	-	0.005 U	0.005 U	0.005 U	
N-Nitrosodiphenylamine	mg/L	0.001 U	-	0.0051 U	0.00096 U	-	0.0052 U	0.00096 U	-	-	0.005 U	0.0051 U	0.001 U	-	0.005 U	0.005 U	0.005 U	
Pentachlorophenol	mg/L	0.01 U	-	0.0051 U	0.0096 U	-	0.0052 U	0.0096 U	-	-	0.005 U	0.0051 U	0.01 U	-	0.005 U	0.005 U	0.005 U	
Phenanthrene	mg/L	0.00021 U	-	0.002 U	0.00019 U	-	0.0021 U	0.00019 U	-	-	0.002 U	0.002 U	0.0002 U	-	0.002 U	0.002 U	0.002 U	
Phenol	mg/L	0.001 U	-	0.0051 U	0.00096 U	-	0.0052 U	0.00096 U	-	-	0.005 U	0.0051 U	0.001 U	-	0.005 U	0.005 U	0.005 U	
Pyrene	mg/L	0.00021 U	-	0.0051 U	0.0002	-	0.0052 U	0.00019 U	-	-	0.005 U	0.0051 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	
Metals																		
Aluminum	mg/L	0.05 U	0.37	0.05 U	0.08	0.047 U	0.05 U	0.18	0.047 U	-	-	0.025	0.05 U	0.05 U	0.047 J	0.05 U	0.01 U	0.01 U
Aluminum (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Antimony	mg/L	0.002 U	0.0075 U	0.002 U	0.002 U	0.0075 U	0.00065 J	0.00081 J	0.0075 U	-	-	0.005 U	0.002 U	0.002 U	0.0075 U	0.002 U	0.005 U	0.005 U
Antimony (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Arsenic	mg/L	0.005 U	0.0041 U	0.005 U	0.005 U	0.0041 U	0.005 U	0.0022 J	0.0041 U	-	-	0.032 ^{abc}	0.03 ^{abc}	0.0074	0.0061 J	0.0013 J	0.002 U	0.002 U
Arsenic (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	-	-	-	-
Barium	mg/L	0.15	0.15 J	0.1 U	0.0068	0.011 J	0.019 J	0.019	0.037 J	-	-	0.142	0.14	0.045	0.11 J	0.025 J	0.027	0.028
Barium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Beryllium	mg/L	0.001 U	0.0006 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.0006 U	-	-	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Cadmium	mg/L	0.001 U	0.00045 U	0.001 U	0.001 U	0.00045 U	0.001 U	0.001 U	0.00045 U	-	-	0.0005 U	0.001 U	0.001 U	0.00045 U	0.001 U	0.0005 U	0.0005 U
Cadmium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Calcium	mg/L	160	170	52	95	110	200	130	110	-	-	92.3	93	29	97	30	77.9	73.6
Calcium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Chromium	mg/L	0.005 U	0.002 J	0.01 U	0.005 U	0.00076 U	0.01 U	0.005 U	0.00076 U	-	-	0.005 U	0.002 U	0.005 U	0.00082 J	0.01 U	0.005 U	0.005 U
Chromium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Cobalt	mg/L	0.0011	0.0022 J	0.02 U	0.001 U	0.00075 U	0.02 U	0.00083 J	0.0028 J	-	-	0.005 U	0.001 U	0.0003 J	0.0009 J	0.00039 J	0.005 U	0.005 U
Cobalt (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Copper	mg/L	0.002 U	0.0035 U	0.004 U	0.0024	0.0047 J	0.0021 J	0.0048	0.0035 U	-	-	0.005 U	0.002 U	0.002 U	0.0035 U	0.0022 J	0.005 U	0.005 U
Copper (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	-	-	-	-
Iron	mg/L	0.2	0.83	0.2 U	0.16	0.083 U	0.2 U	1.1 ^{xab}	1.3 ^{xab}	-	-	2.82 ^{xab}	2.7 ^{xab}	0.24	0.87	0.2 U	0.03	0.02 U
Iron (dissolved)	mg/L	0.18	--	-	0.1 U	--	-	1.1 ^{xab}	--	-	-	-	-	0.2	--	-	-	-
Lead	mg/L	0.001 U	0.0046 J	0.003 U	0.001 U	0.0028 U	0.003 U	0.0022	0.0028 U	-	-	0.003 U	0.001 U	0.001 U	0.0028 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Magnesium	mg/L	30	28	8	16	20	22	15	17	-	-	29	27	7	25	6	17	16.8
Magnesium (dissolved)	mg/L	-																

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		CRA-609M	CRA-609M	CRA-613M	CRA-613M	CRA-613M	CRA-615M	CRA-615M	CRA-615M	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-711I	CRA-725I	CRA-725I	CRA-725I
Sample ID:		GW-11223073-060222-AC-045	GW-12602792-051123-LK-003	GW-17358-051820-DR-012	WG-11223073-052622-AC-005	GW-12602792-051623-DA-054	GW-17358-051820-DR-008	WG-11223073-052622-AC-009	GW-12602792-051623-DR-051	GW-17358-102220-DR-014	GW-17358-102220-DR-015	GW-11223073-060321-DA-047	GW-11223073-060321-DA-048	GW-11223073-053122-AC-019	GW-12602792-051123-LK-001	GW-17358-080718-DA-075	GW-11223073-051221-DR-026	GW-11223073-051221-DR-027
Sample Date:		06/02/2022	05/11/2023	05/18/2020	05/26/2022	05/16/2023	05/18/2020	05/26/2022	05/16/2023	10/22/2020	10/22/2020	06/03/2021	06/03/2021	05/31/2022	05/11/2023	08/07/2018	05/12/2021	05/12/2021
Sample Type:		Duplicate									Duplicate		Duplicate					Duplicate
Aquifer		Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Parameters	Units																	
Potassium	mg/L	4.5	4 J	0.91 J	2.3	5	2.2	2.7	9	-	-	0.98	0.89 J	1.4	2.5 J	0.95 J	1.29	1.25
Potassium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Selenium	mg/L	0.005 U	0.006 U	0.0016 J	0.015 ^{xc}	0.006 U	0.002 J	0.005 U	0.006 U	-	-	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Silver	mg/L	0.001 U	0.00062 U	0.0002 U	0.001 U	0.00062 U	0.0002 U	0.001 U	0.00062 U	-	-	0.0005 U	0.001 U	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.0005 U
Silver (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Sodium	mg/L	41	34	2.2	40	46	20	25	26	-	-	33.2	34	22	50	230	93.8	87.5
Sodium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Thallium	mg/L	0.001 U	0.0027 U	0.002 U	0.001 U	0.0031 J ^{xsab}	0.00042 J	0.001 U	0.0027 U	-	-	0.002 U	0.001 U	0.001 U	0.0027 U	0.002 U	0.002 U	0.002 U
Thallium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Vanadium	mg/L	0.005 U	0.0056 U	0.004 U	0.005 U	0.0056 U	0.004 U	0.00097 J	0.0056 U	-	-	0.005 U	0.005 U	0.005 U	0.0056 U	0.0012 J	0.005 U	0.005 U
Vanadium (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Zinc	mg/L	0.02 U	0.12	0.05 U	0.02 U	0.023 U	0.05 U	0.024	0.023 U	-	-	0.005 U	0.02 U	0.02 U	0.026 J	0.05 U	0.005 U	0.005 U
Zinc (dissolved)	mg/L	-	--	-	-	--	-	-	--	-	-	-	-	-	--	-	-	-
Gas																		
Ethane	mg/L	0.0006 J	-	-	0.001 U	-	-	0.00057 J	-	-	-	-	-	0.00036 J	-	0.001 U	-	-
Ethene	mg/L	0.001 U	-	-	0.001 U	-	-	0.001 U	-	-	-	-	-	0.00053 J	-	0.001 U	-	-
Methane	mg/L	0.13	-	-	0.001 U	-	-	0.035	-	-	-	-	-	0.013	-	0.005	-	-
Field Parameters																		
Conductivity, field	mS/cm	1.122	-	0.312	0.685	-	1.13	0.717	-	-	-	0.89	1.89	0.347	-	1.37	0.01	0.01
Conductivity, field	uS/cm	-	961	-	-	85.1	-	-	0.76	-	-	-	-	-	814	-	-	-
Dissolved oxygen (DO), field	mg/L	0.06	0.32	5.23	3.33	142	1.63	0.9	1.94	-	-	0.12	0.12	0.39	0.38	0.15	11.1	11.1
Oxidation reduction potential (ORP), millivolts		-14.3	-43	125	132.4	-55	142	88.1	-38.4	-	-	-97.8	-97.8	117.5	-136	41.4	200.3	200.3
pH, field	s.u.	7.18	7.03	7.51	7.12	7.19	6.85	6.8	6.97	-	-	7.41	7.41	8.4	7.32	7.88	7.07	7.07
Temperature, sample	Deg C	13.3	18.42	11.8	18.7	21.89	11.9	17.4	16	-	-	15.2	15.2	15.4	17.17	21.2	11.85	11.85
Turbidity, field	NTU	1.37	2.96	2.03	1.23	4.89	2.46	4.96	2.01	-	-	3.47	3.47	1.53	1.03	2.72	3.76	3.76

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-725I		CRA-725I		CRA-725M		CRA-725M		CRA-725M		CRA-725M		CRA-729I		CRA-729I		CRA-729I		CRA-729I		CRA-729M		CRA-729M		CRA-729M		CRA-729M		CRA-740I		CRA-740I		CRA-740I							
Sample ID:	GW-11223073-060122-AC-039		GW-12602792-051523-DR-038		GW-17358-080818-DA-076		GW-11223073-051221-DR-028		GW-11223073-060122-AC-038		GW-12602792-051523-DR-037		GW-17358-080618-DA-073		GW-11223073-051221-DR-029		GW-11223073-060222-AC-041		GW-12602792-051523-DR-033		GW-17358-080618-DA-074		GW-11223073-051221-DR-030		GW-11223073-060122-AC-040		GW-12602792-051523-DA-034		GW-17358-080318-DR-070		GW-11223073-051221-DR-031		GW-11223073-060222-AC-043							
Sample Date:	06/01/2022		05/15/2023		08/08/2018		05/12/2021		06/01/2022		05/15/2023		08/06/2018		05/12/2021		06/02/2022		05/15/2023		08/06/2018		05/12/2021		06/01/2022		05/15/2023		08/03/2018		05/12/2021		06/02/2022							
Sample Type:																																								
Aquifer	Intermediate		Intermediate		Shallow		Shallow		Shallow		Shallow		Intermediate		Intermediate		Intermediate		Intermediate		Shallow		Shallow		Shallow		Shallow		Intermediate		Intermediate		Intermediate							
Parameters	Units																																							
Volatile Organic Compounds (VOCs)																																								
1,1,1-Trichloroethane	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,1,2,2-Tetrachloroethane	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,1,2-Trichloroethane	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,1-Dichloroethane	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,1-Dichloroethene	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,2,4-Trichlorobenzene	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U		0.002 U		0.001 U		0.001 U		0.002 U		0.002 U		0.05 U		0.001 U		0.002 U		0.002 U		0.002 U		0.005 U		0.001 U		0.002 U		0.002 U		0.002 U		0.1 U		0.001 U		0.002 U		
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,2-Dichlorobenzene	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,2-Dichloroethane	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,2-Dichloropropane	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,3-Dichlorobenzene	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
1,4-Dichlorobenzene	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
2-Butanone (Methyl ethyl ketone) (V	mg/L	0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		5.5 ^c		0.01 U		0.01 U		0.01 U		0.01 U		0.3		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		9.9 ^c		0.01 U		0.01 U
2-Hexanone	mg/L	0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.5 U		0.01 U		0.01 U		0.01 U		0.01 U		0.05 U		0.01 U		0.01 U		0.01 U		0.01 U		1 U		0.01 U		0.01 U		
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.5 U		0.01 U		0.01 U		0.01 U		0.01 U		0.05 U		0.01 U		0.01 U		0.01 U		0.01 U		1 U		0.01 U		0.01 U		
Acetone	mg/L	0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		5 ^{abc}		0.01 U		0.01 U		0.01 U		0.01 U		0.29		0.01 U		0.01 U		0.01 U		0.01 U		8.6 J ^{abc}		0.01 U		0.01 U		
Benzene	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
Bromodichloromethane	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
Bromoform	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
Bromomethane (Methyl bromide)	mg/L	0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.001 U		0.05 U		0.001 U		0.001 U		0.001 U		0.001 U		0.005 U		0.001 U		0.001 U		0.001 U		0.001 U		0.1 U		0.001 U		0.001 U		
Carbon disulfide	mg/L	0.00																																						

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-725I	CRA-725I	CRA-725M	CRA-725M	CRA-725M	CRA-725M	CRA-729I	CRA-729I	CRA-729I	CRA-729I	CRA-729M	CRA-729M	CRA-729M	CRA-729M	CRA-740I	CRA-740I	CRA-740I		
Sample ID:	GW-11223073-060122-AC-039	GW-12602792-051523-DR-038	GW-17358-080818-DA-076	GW-11223073-051221-DR-028	GW-11223073-060122-AC-038	GW-11223073-051523-DR-037	GW-17358-080618-DA-073	GW-11223073-051221-DR-029	GW-11223073-060222-AC-041	GW-12602792-051523-DR-033	GW-17358-080618-DA-074	GW-11223073-051221-DR-030	GW-11223073-060122-AC-040	GW-12602792-051523-DA-034	GW-17358-080318-DR-070	GW-11223073-051221-DR-031	GW-11223073-060222-AC-043		
Sample Date:	06/01/2022	05/15/2023	08/08/2018	05/12/2021	06/01/2022	05/15/2023	08/06/2018	05/12/2021	06/02/2022	05/15/2023	08/06/2018	05/12/2021	06/01/2022	05/15/2023	08/03/2018	05/12/2021	06/02/2022		
Sample Type:																			
Aquifer	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate		
Parameters	Units																		
Acenaphthene	mg/L	0.00021 U	-	0.0048 U	0.005 U	0.00023 U	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.01 U	0.005 U	0.00019 U	
Acenaphthylene	mg/L	0.00021 U	-	0.0048 U	0.005 U	0.00023 U	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.01 U	0.005 U	0.00019 U	
Acetophenone	mg/L	0.001 U	-	0.0048 U	0.005 U	0.0011 U	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.005 U	0.00096 U	-	0.01 U	0.005 U	0.00096 U	
Anthracene	mg/L	0.00021 U	-	0.0048 U	0.005 U	0.00023 U	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.01 U	0.005 U	0.00019 U	
Atrazine	mg/L	0.0021 U	-	0.0029 U	0.003 U	0.0023 U	-	0.0031 U	0.003 U	0.0019 U	-	0.0029 U	0.003 U	0.0019 U	-	0.006 U	0.003 U	0.0019 U	
Benzaldehyde	mg/L	0.0021 U	-	0.0048 U	0.005 U	0.0023 U	-	0.0051 U	0.005 U	0.0019 U	-	0.0048 U	0.005 U	0.0019 U	-	0.01 U	0.005 U	0.0019 U	
Benzo(a)anthracene	mg/L	0.00021 U	-	0.00095 U	0.001 U	0.00023 U	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.00019 U	-	0.002 U	0.001 U	0.00019 U	
Benzo(a)pyrene	mg/L	0.00021 U	-	0.00095 U	0.001 U	0.00023 U	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.00019 U	-	0.002 U	0.001 U	0.00019 U	
Benzo(b)fluoranthene	mg/L	0.00021 U	-	0.00095 U	0.001 U	0.00023 U	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.00019 U	-	0.002 U	0.001 U	0.00019 U	
Benzo(g,h,i)perylene	mg/L	0.00021 U	-	0.00095 U	0.001 U	0.00023 U	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.00019 U	-	0.002 U	0.001 U	0.00019 U	
Benzo(k)fluoranthene	mg/L	0.00021 U	-	0.00095 U	0.001 U	0.00023 U	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.00019 U	-	0.002 U	0.001 U	0.00019 U	
Biphenyl (1,1-Biphenyl)	mg/L	0.001 U	-	0.0048 U	0.005 U	0.0011 U	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.005 U	0.00096 U	-	0.01 U	0.005 U	0.00096 U	
bis(2-Chloroethoxy)methane	mg/L	0.001 U	-	0.0048 U	0.005 U	0.0011 U	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.005 U	0.00096 U	-	0.01 U	0.005 U	0.00096 U	
bis(2-Chloroethyl)ether	mg/L	0.001 U	-	0.00095 U	0.001 U	0.0011 U	-	0.001 U	0.001 U	0.00096 U	-	0.00095 U	0.001 U	0.00096 U	-	0.002 U	0.001 U	0.00096 U	
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.0052 U	-	0.0048 U	0.005 U	0.0057 U	-	0.0051 U	0.005 U	0.0048 U	-	0.0048 U	0.005 U	0.0048 U	-	0.01 U	0.005 U	0.0048 U	
Butyl benzylphthalate (BBP)	mg/L	0.0021 U	-	0.0048 U	0.005 U	0.0023 U	-	0.0051 U	0.005 U	0.0019 U	-	0.0048 U	0.005 U	0.0019 U	-	0.01 U	0.005 U	0.0019 U	
Caprolactam	mg/L	0.0052 U	-	0.0095 U	0.01 U	0.0057 U	-	0.0014 J	0.01 U	0.0048 U	-	0.0095 U	0.01 U	0.0048 U	-	0.02 U	0.01 U	0.0048 U	
Carbazole	mg/L	0.001 U	-	0.0095 U	0.01 U	0.0011 U	-	0.01 U	0.01 U	0.00096 U	-	0.0095 U	0.01 U	0.00096 U	-	0.02 U	0.01 U	0.00096 U	
Chrysene	mg/L	0.00021 U	-	0.00095 U	0.001 U	0.00023 U	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.00019 U	-	0.002 U	0.001 U	0.00019 U	
Dibenz(a,h)anthracene	mg/L	0.00021 U	-	0.0019 U	0.002 U	0.00023 U	-	0.002 U	0.002 U	0.00019 U	-	0.0019 U	0.002 U	0.00019 U	-	0.004 U	0.002 U	0.00019 U	
Dibenzofuran	mg/L	0.001 U	-	0.0038 U	0.004 U	0.0011 U	-	0.0041 U	0.004 U	0.00096 U	-	0.0038 U	0.004 U	0.00096 U	-	0.008 U	0.004 U	0.00096 U	
Diethyl phthalate	mg/L	0.0052 U	-	0.0048 U	0.005 U	0.0057 U	-	0.0051 U	0.005 U	0.0048 U	-	0.0048 U	0.005 U	0.0048 U	-	0.01 U	0.005 U	0.0048 U	
Dimethyl phthalate	mg/L	0.0021 U	-	0.0048 U	0.005 U	0.0023 U	-	0.0051 U	0.005 U	0.0019 U	-	0.0048 U	0.005 U	0.0019 U	-	0.01 U	0.005 U	0.0019 U	
Di-n-butylphthalate (DBP)	mg/L	0.0052 U	-	0.0048 U	0.005 U	0.0057 U	-	0.0051 U	0.005 U	0.0048 U	-	0.0048 U	0.005 U	0.0048 U	-	0.01 U	0.005 U	0.0048 U	
Di-n-octyl phthalate (DnOP)	mg/L	0.0021 U	-	0.0048 U	0.005 U	0.0023 U	-	0.0051 U	0.005 U	0.0019 U	-	0.0048 U	0.005 U	0.0019 U	-	0.01 U	0.005 U	0.0019 U	
Fluoranthene	mg/L	0.00021 U	-	0.00095 U	0.001 U	0.00023 U	-	0.001 U	0.001 U	0.00019 U	-	0.00095 U	0.001 U	0.00019 U	-	0.002 U	0.001 U	0.00019 U	
Fluorene	mg/L	0.00021 U	-	0.0048 U	0.005 U	0.00023 U	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.01 U	0.005 U	0.00019 U	
Hexachlorobenzene	mg/L	0.00021 U	-	0.00019 U	0.0002 U	0.00023 U	-	0.0002 U	0.0002 U	0.00019 U	-	0.00019 U	0.0002 U	0.00019 U	-	0.0004 U	0.0002 U	0.00019 U	
Hexachlorobutadiene	mg/L	0.001 U	-	0.00095 U	0.001 U	0.0011 U	-	0.001 U	0.001 U	0.00096 U	-	0.00095 U	0.001 U	0.00096 U	-	0.002 U	0.001 U	0.00096 U	
Hexachlorocyclopentadiene	mg/L	0.01 U	-	0.0048 U	0.005 U	0.011 U	-	0.0051 U	0.005 U	0.0096 U	-	0.0048 U	0.005 U	0.0096 U	-	0.01 U	0.005 U	0.0096 U	
Hexachloroethane	mg/L	0.001 U	-	0.0048 U	0.005 U	0.0011 U	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.005 U	0.00096 U	-	0.01 U	0.005 U	0.00096 U	
Indeno(1,2,3-cd)pyrene	mg/L	0.00021 U	-	0.0019 U	0.002 U	0.00023 U	-	0.002 U	0.002 U	0.00019 U	-	0.0019 U	0.002 U	0.00019 U	-	0.004 U	0.002 U	0.00019 U	
Isophorone	mg/L	0.001 U	-	0.0048 U	0.005 U	0.0011 U	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.005 U	0.00096 U	-	0.01 U	0.005 U	0.00096 U	
Naphthalene	mg/L	0.00021 U	-	0.0048 U	0.005 U	0.00023 U	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.01 U	0.005 U	0.00019 U	
Nitrobenzene	mg/L	0.001 U	-	0.0029 U	0.003 U	0.0011 U	-	0.0031 U	0.003 U	0.00096 U	-	0.0029 U	0.003 U	0.00096 U	-	0.006 U	0.003 U	0.00096 U	
N-Nitrosodi-n-propylamine	mg/L	0.001 U	-	0.0048 U	0.005 U	0.0011 U	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.005 U	0.00096 U	-	0.01 U	0.005 U	0.00096 U	
N-Nitrosodiphenylamine	mg/L	0.001 U	-	0.0048 U	0.005 U	0.0011 U	-	0.0051 U	0.005 U	0.00096 U	-	0.0048 U	0.005 U	0.00096 U	-	0.01 U	0.005 U	0.00096 U	
Pentachlorophenol	mg/L	0.01 U	-	0.0048 U	0.005 U	0.011 U	-	0.0051 U	0.005 U	0.0096 U	-	0.0048 U	0.005 U	0.0096 U	-	0.01 U	0.005 U	0.0096 U	
Phenanthrene	mg/L	0.00021 U	-	0.0019 U	0.002 U	0.00023 U	-	0.002 U	0.002 U	0.00019 U	-	0.0019 U	0.002 U	0.00019 U	-	0.00033 J	0.002 U	0.00019 U	
Phenol	mg/L	0.001 U	-	0.0048 U	0.005 U	0.0011 U	-	0.00027 J	0.005 U	0.00096 U	-	0.0022 J	0.005 U	0.00096 U	-	0.043	0.005 U	0.00096 U	
Pyrene	mg/L	0.00021 U	-	0.0048 U	0.005 U	0.00023 U	-	0.0051 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.01 U	0.005 U	0.00019 U	
Metals																			
Aluminum	mg/L	0.05 U	0.047 U	0.068	0.01 U	0.05 U	0.28	0.041 J	0.014	0.05 U	0.047 U	3.8 ^{xab}	0.163	0.45 ^{xab}	2 B ^{xab}	3.9 ^{xab}	0.051	0.05 U	
Aluminum (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.61 B ^{xab}	-	-	-	
Antimony	mg/L	0.002 U	0.0075 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.0047	0.005 U	0.0016 J	0.0075 U	0.0075 U	0.005 U	0.002 U	
Antimony (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.0075 U	-	-	-	
Arsenic	mg/L	0.005 U	0.0041 U	0.00082 J	0.002 U	0.005 U	0.0041 U	0.012 ^{abc}	0.004	0.0067	0.008 J	0.067 ^{abc}	0.013 ^{abc}	0.028 ^{abc}	0.032 ^{abc}	0.036 ^{abc}	0.014 ^{abc}	0.012 ^{abc}	
Arsenic (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.031 ^{abc}	-	-	-	
Barium	mg/L	0.026	0.031 J	0.015 J	0.026	0.026	0.024 J	0.085 J	0.13	0.13	0.12 J	0.021 J	0.008	0.0055	0.013 J	0.046 J	0.103	0.1	
Barium (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.0095 J	-	-	-	
Beryllium	mg/L	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	
Beryllium (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.0006 U	-	-	-	
Cadmium	mg/L	0.001 U	0.00045 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.00045 U	0.00025 J	0.0005 U	0.001 U
Cadmium (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.00045 U	-	-	-	
Calcium	mg/L	60	65	40	80.9	68	61	76	111	96	90	10	18.5	17	20	47	93	88	
Calcium (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	20	-	-	-	
Chromium	mg/L	0.005 U	0.00076 U	0.01 U	0.005 U	0.005 U	0.00076 U	0.01 U	0.005 U	0.005 U	0.00076 U	0.024 ^c	0.005 U	0.005 U	0.021 ^c	0.01 U	0.005 U	0.005 U	
Chromium (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.02 ^c	-	-	-	
Cobalt	mg/L	0.00033 J	0.00075 U	0.00031 J	0.005 U	0.00026 J	0.00075 U	0.00036 J	0.005 U	0.00026 J	0.00075 U	0.0042 J	0.005 U	0.0007 J	0.0013 J	0.0036 J	0.005 U	0.0016	
Cobalt (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.0013 J	-	-	-	
C																			

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		CRA-725I	CRA-725I	CRA-725M	CRA-725M	CRA-725M	CRA-725M	CRA-729I	CRA-729I	CRA-729I	CRA-729I	CRA-729M	CRA-729M	CRA-729M	CRA-729M	CRA-740I	CRA-740I	CRA-740I
Sample ID:		GW-11223073-060122-AC-039	GW-12602792-051523-DR-038	GW-17358-080818-DA-076	GW-11223073-051221-DR-028	GW-11223073-060122-AC-038	GW-12602792-051523-DR-037	GW-17358-080618-DA-073	GW-11223073-051221-DR-029	GW-11223073-060222-AC-041	GW-12602792-051523-DR-033	GW-17358-080618-DA-074	GW-11223073-051221-DR-030	GW-11223073-060122-AC-040	GW-12602792-051523-DA-034	GW-17358-080318-DR-070	GW-11223073-051221-DR-031	GW-11223073-060222-AC-043
Sample Date:		06/01/2022	05/15/2023	08/08/2018	05/12/2021	06/01/2022	05/15/2023	08/06/2018	05/12/2021	06/02/2022	05/15/2023	08/06/2018	05/12/2021	06/01/2022	05/15/2023	08/03/2018	05/12/2021	06/02/2022
Sample Type:																		
Aquifer		Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate
Parameters	Units																	
Potassium	mg/L	1.4	1.7 J	0.62 J	4.66	6.7	4.5 J	4.1	2.85	2.5	2.9 J	4.5	13.7	18	36	52	10.8	11
Potassium (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	35	-	-	-
Selenium	mg/L	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.0055 ^{xc}	0.005 U	0.0017 J	0.006 U	0.0039 J	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	--	-	-	-	--	-	-	-	0.006 U	-	-	-
Silver	mg/L	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.000073 J	0.0005 U	0.001 U
Silver (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.00062 U	-	-	-
Sodium	mg/L	93	81	140	56.3	49	45	140	143	120	130	150	117	51	57	270 ^a	106	110
Sodium (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	57	-	-	-
Thallium	mg/L	0.001 U	0.0027 U	0.002 U	0.002 U	0.001 U	0.0027 U	0.002 U	0.002 U	0.001 U	0.0065 J ^{xabc}	0.002 U	0.002 U	0.001 U	0.0027 U	0.002 U	0.002 U	0.001 U
Thallium (dissolved)	mg/L	-	-	-	-	-	--	-	-	-	-	-	-	-	0.0027 U	-	-	-
Vanadium	mg/L	0.005 U	0.0056 U	0.00091 J	0.005 U	0.005 U	0.0056 U	0.0014 J	0.005 U	0.005 U	0.0056 U	0.11 ^{abc}	0.019 ^a	0.047 ^{bc}	0.056 ^{ac}	0.026 ^a	0.005 U	0.005 U
Vanadium (dissolved)	mg/L	-	--	-	-	-	--	-	-	-	--	-	-	-	0.053 ^{ac}	-	-	-
Zinc	mg/L	0.02 U	0.023 U	0.05 U	0.005 U	0.02 U	0.023 U	0.05 U	0.005 U	0.02 U	0.023 U	0.028 J	0.005 U	0.02 U	0.023 U	0.02 J	0.005 U	0.02 U
Zinc (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	--	-	-	-	0.023 U	-	-	-
Gas																		
Ethane	mg/L	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	-	0.00039 J	-	0.001 U	-	0.00042 J	-	0.001 U	-	0.001 U
Ethene	mg/L	0.001 U	-	0.001 U	-	0.001 U	-	0.0026	-	0.0063	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U
Methane	mg/L	0.0042	-	0.001 U	-	0.001 U	-	0.56	-	0.37	-	0.001 U	-	0.018	-	0.016	-	0.14
Field Parameters																		
Conductivity, field	mS/cm	0.795	-	0.83	0	0.685	-	1.16	1.307	1.21	-	0.74	0.692	0.474	-	1.6	1.119	1.094
Conductivity, field	uS/cm	-	720	-	-	-	549	-	-	-	1040	-	-	-	465	-	-	-
Dissolved oxygen (DO), field	mg/L	0.07	0.29	3.13	10.2	3.39	5.6	0	0.35	0.12	0.35	0.04	0.98	0.23	0.69	0.02	0.36	0.05
Oxidation reduction potential (ORP), field	millivolts	98.7	-54.5	148.1	140.7	123.7	-30.1	-309.5	-80	-142.6	-77.4	-43.3	67	68	-74.3	-321	-74	-146.4
pH, field	s.u.	7.57	7.61	7.12	7.41	7.4	7.33	7.39	6.46 ^{abc}	7.41	7.41	8.75 ^{ab}	7.44	9.9 ^{abc}	9.4 ^{abc}	11.05 ^{abc}	6.9	7.5
Temperature, sample	Deg C	15.5	14	23	13.54	16.7	14.4	20.38	11.65	11.6	11.9	20.3	11.84	14.3	12	20	12.06	12.1
Turbidity, field	NTU	0.51	1.34	26.4	4.51	0.86	2.32	4.98	2.67	3.83	2.86	55.1	3.18	4.05	25.3	75.4	4.69	3.01

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-740I	CRA-740M	CRA-740M	CRA-740M	CRA-740M	CRA-740M	CRA-756M	CRA-756M	CRA-756M	CRA-756M	CRA-756M	CRA-799M	CRA-799M	CRA-799M	CRA-799M	CRA-806M	CRA-806M
Sample ID:	GW-12602792-051523-DR-024	GW-17358-080318-DR-069	GW-11223073-051221-DR-032	GW-11223073-060222-AC-042	GW-12602792-051523-DR-029	GW-12602792-051523-DR-031	GW-17358-073118-DR-021	GW-17358-051920-DR-014	GW-11223073-052821-DR-040	GW-11223073-053122-AC-015	GW-12602792-051223-DR-020	GW-17358-080118-DR-031	GW-11223073-051121-DR-014	GW-11223073-060222-AC-048	GW-12602792-051523-DA-041	GW-17358-073118-DR-022	GW-17358-051920-DR-015
Sample Date:	05/15/2023	08/03/2018	05/12/2021	06/02/2022	05/15/2023	05/15/2023 Duplicate	07/31/2018	05/19/2020	05/28/2021	05/31/2022	05/12/2023	08/01/2018	05/11/2021	06/02/2022	05/15/2023	07/31/2018	05/19/2020
Sample Type:																	
Aquifer	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Parameters	Units																
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,1-Dichloroethane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,1-Dichloroethene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	0.4 U	0.001 U	0.002 U	0.002 U	0.005 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.0033 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,2-Dichloroethane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,2-Dichloropropane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
2-Butanone (Methyl ethyl ketone) (V	mg/L	0.01 U	27 ^{bc}	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.0019 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.033 U
2-Hexanone	mg/L	0.01 U	4 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.033 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	4 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.033 U
Acetone	mg/L	0.01 U	25 J ^{abc}	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0064 J	0.033 U
Benzene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Bromodichloromethane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Bromoform	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Carbon disulfide	mg/L	0.001 U	2 U	0.005 U	0.001 U	0.001 U	0.025 U	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.017 U
Carbon tetrachloride	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Chlorobenzene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Chloroethane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.0072	0.001 U	0.001	0.0026	0.0016	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Cyclohexane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Dibromochloromethane	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0033 U
Ethylbenzene	mg/L	0.001 U	0.4 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-740I	CRA-740M	CRA-740M	CRA-740M	CRA-740M	CRA-740M	CRA-756M	CRA-756M	CRA-756M	CRA-756M	CRA-756M	CRA-799M	CRA-799M	CRA-799M	CRA-799M	CRA-806M	CRA-806M		
Sample ID:	GW-12602792-051523-DR-024	GW-17358-080318-DR-069	GW-11223073-051221-DR-032	GW-11223073-060222-AC-042	GW-12602792-051523-DR-029	GW-12602792-051523-DR-031	GW-17358-073118-DR-021	GW-17358-051920-DR-014	GW-11223073-052821-DR-040	GW-11223073-053122-AC-015	GW-12602792-051223-DR-020	GW-17358-080118-DR-031	GW-11223073-051121-DR-014	GW-11223073-060222-AC-048	GW-12602792-051523-DA-041	GW-17358-073118-DR-022	GW-17358-051920-DR-015		
Sample Date:	05/15/2023	08/03/2018	05/12/2021	06/02/2022	05/15/2023	05/15/2023 Duplicate	07/31/2018	05/19/2020	05/28/2021	05/31/2022	05/12/2023	08/01/2018	05/11/2021	06/02/2022	05/15/2023	07/31/2018	05/19/2020		
Sample Type:																			
Aquifer	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow		
Parameters	Units																		
Acenaphthene	mg/L	-	0.0099 U	0.005 U	0.00019 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.0002 U	-	0.0049 U	0.005 U	0.00019 U	-	0.0056 U	0.005 U
Acenaphthylene	mg/L	-	0.0099 U	0.005 U	0.00019 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.0002 U	-	0.0049 U	0.005 U	0.00019 U	-	0.0056 U	0.005 U
Acetophenone	mg/L	-	0.0099 U	0.005 U	0.00096 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.001 U	-	0.0049 U	0.005 U	0.00093 U	-	0.0056 U	0.005 U
Anthracene	mg/L	-	0.0099 U	0.005 U	0.00019 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.0002 U	-	0.0049 U	0.005 U	0.00019 U	-	0.0056 U	0.005 U
Atrazine	mg/L	-	0.0059 U	0.003 U	0.0019 U	-	-	-	0.0029 U	0.0031 U	0.003 U	0.002 U	-	0.0029 U	0.003 U	0.0019 U	-	0.0034 U	0.003 U
Benzaldehyde	mg/L	-	0.0099 U	0.005 U	0.00019 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.002 U	-	0.0049 U	0.005 U	0.0019 U	-	0.0056 U	0.005 U
Benzo(a)anthracene	mg/L	-	0.002 U	0.001 U	0.00019 U	-	-	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.00018 J	0.001 U	0.00064	-	0.0011 U	0.001 U
Benzo(a)pyrene	mg/L	-	0.002 U	0.001 U	0.00019 U	-	-	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.00028 J	0.001 U	0.00094	-	0.0011 U	0.001 U
Benzo(b)fluoranthene	mg/L	-	0.002 U	0.001 U	0.00019 U	-	-	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.00035 J	0.001 U	0.0014	-	0.0011 U	0.001 U
Benzo(g,h,i)perylene	mg/L	-	0.002 U	0.001 U	0.00019 U	-	-	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.00024 J	0.001 U	0.00072 ^f	-	0.0011 U	0.001 U
Benzo(k)fluoranthene	mg/L	-	0.002 U	0.001 U	0.00019 U	-	-	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.00019 J	0.001 U	0.00056	-	0.0011 U	0.001 U
Biphenyl (1,1-Biphenyl)	mg/L	-	0.0099 U	0.005 U	0.00096 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.001 U	-	0.0049 U	0.005 U	0.00093 U	-	0.0056 U	0.005 U
bis(2-Chloroethoxy)methane	mg/L	-	0.0099 U	0.005 U	0.00096 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.001 U	-	0.0049 U	0.005 U	0.00093 U	-	0.0056 U	0.005 U
bis(2-Chloroethyl)ether	mg/L	-	0.002 U	0.001 U	0.00096 U	-	-	-	0.00095 U	0.001 U	0.001 U	0.001 U	-	0.00097 U	0.001 U	0.00093 U	-	0.0011 U	0.001 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	0.0099 U	0.005 U	0.0048 U	-	-	-	0.0026 J	0.0051 U	0.005 U	0.005 U	-	0.0049 U	0.005 U	0.0046 U	-	0.0056 U	0.005 U
Butyl benzylphthalate (BBP)	mg/L	-	0.0099 U	0.005 U	0.0019 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.002 U	-	0.0049 U	0.005 U	0.0019 U	-	0.0056 U	0.005 U
Caprolactam	mg/L	-	0.00078 J	0.01 U	0.0048 U	-	-	-	0.0095 U	0.01 U	0.01 U	0.005 U	-	0.0097 U	0.01 U	0.0046 U	-	0.011 U	0.01 U
Carbazole	mg/L	-	0.02 U	0.01 U	0.00096 U	-	-	-	0.0095 U	0.01 U	0.01 U	0.001 U	-	0.0097 U	0.01 U	0.00093 U	-	0.011 U	0.01 U
Chrysene	mg/L	-	0.002 U	0.001 U	0.00019 U	-	-	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.00019 J	0.001 U	0.00075	-	0.0011 U	0.001 U
Dibenz(a,h)anthracene	mg/L	-	0.004 U	0.002 U	0.00019 U	-	-	-	0.0019 U	0.002 U	0.002 U	0.0002 U	-	0.0019 U	0.002 U	0.00019 U	-	0.0022 U	0.002 U
Dibenzofuran	mg/L	-	0.0079 U	0.004 U	0.00096 U	-	-	-	0.0038 U	0.0041 U	0.004 U	0.001 U	-	0.0039 U	0.004 U	0.00093 U	-	0.0045 U	0.004 U
Diethyl phthalate	mg/L	-	0.0099 U	0.005 U	0.0048 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.005 U	-	0.0049 U	0.005 U	0.0046 U	-	0.0056 U	0.005 U
Dimethyl phthalate	mg/L	-	0.0099 U	0.005 U	0.0019 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.002 U	-	0.0049 U	0.005 U	0.0019 U	-	0.0056 U	0.005 U
Di-n-butylphthalate (DBP)	mg/L	-	0.0099 U	0.005 U	0.0048 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.005 U	-	0.0049 U	0.005 U	0.0046 U	-	0.0056 U	0.005 U
Di-n-octyl phthalate (DnOP)	mg/L	-	0.0099 U	0.005 U	0.0019 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.002 U	-	0.0049 U	0.005 U	0.0019 U	-	0.0056 U	0.005 U
Fluoranthene	mg/L	-	0.002 U	0.001 U	0.00019 U	-	-	-	0.00095 U	0.001 U	0.001 U	0.0002 U	-	0.00047 J	0.001 U	0.0015	-	0.0011 U	0.001 U
Fluorene	mg/L	-	0.0099 U	0.005 U	0.00019 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.0002 U	-	0.0049 U	0.005 U	0.00019 U	-	0.0056 U	0.005 U
Hexachlorobenzene	mg/L	-	0.0004 U	0.0002 U	0.00019 U	-	-	-	0.00019 U	0.0002 U	0.0002 U	0.0002 U	-	0.00019 U	0.0002 U	0.00019 U	-	0.00022 U	0.0002 U
Hexachlorobutadiene	mg/L	-	0.002 U	0.001 U	0.00096 U	-	-	-	0.00095 U	0.001 U	0.001 U	0.001 U	-	0.00097 U	0.001 U	0.00093 U	-	0.0011 U	0.001 U
Hexachlorocyclopentadiene	mg/L	-	0.0099 U	0.005 U	0.0096 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.01 U	-	0.0049 U	0.005 U	0.0093 U	-	0.0056 U	0.005 U
Hexachloroethane	mg/L	-	0.0099 U	0.005 U	0.00096 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.001 U	-	0.0049 U	0.005 U	0.00093 U	-	0.0056 U	0.005 U
Indeno(1,2,3-cd)pyrene	mg/L	-	0.004 U	0.002 U	0.00019 U	-	-	-	0.0019 U	0.002 U	0.002 U	0.0002 U	-	0.0019 U	0.002 U	0.0007 ^f	-	0.0022 U	0.002 U
Isophorone	mg/L	-	0.0099 U	0.005 U	0.00096 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.001 U	-	0.0049 U	0.005 U	0.00093 U	-	0.0056 U	0.005 U
Naphthalene	mg/L	-	0.0099 U	0.005 U	0.00019 U	-	-	-	0.00015 J	0.0051 U	0.005 U	0.0019	-	0.0049 U	0.005 U	0.00019 U	-	0.0056 U	0.005 U
Nitrobenzene	mg/L	-	0.0059 U	0.003 U	0.00096 U	-	-	-	0.0029 U	0.0031 U	0.003 U	0.001 U	-	0.0029 U	0.003 U	0.00093 U	-	0.0034 U	0.003 U
N-Nitrosodi-n-propylamine	mg/L	-	0.0099 U	0.005 U	0.00096 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.001 U	-	0.0049 U	0.005 U	0.00093 U	-	0.0056 U	0.005 U
N-Nitrosodiphenylamine	mg/L	-	0.0099 U	0.005 U	0.00096 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.001 U	-	0.0049 U	0.005 U	0.00093 U	-	0.0056 U	0.005 U
Pentachlorophenol	mg/L	-	0.0099 U	0.005 U	0.0096 U	-	-	-	0.0048 U	0.0096 U	0.0051 U	0.01 U	-	0.0049 U	0.005 U	0.0093 U	-	0.0056 U	0.005 U
Phenanthrene	mg/L	-	0.004 U	0.002 U	0.00019 U	-	-	-	0.0019 U	0.002 U	0.002 U	0.0002 U	-	0.00017 J	0.002 U	0.00019 U	-	0.0022 U	0.002 U
Phenol	mg/L	-	0.016	0.005 U	0.00096 U	-	-	-	0.0003 J	0.0051 U	0.005 U	0.001 U	-	0.0049 U	0.005 U	0.00093 U	-	0.0056 U	0.005 U
Pyrene	mg/L	-	0.0099 U	0.005 U	0.00019 U	-	-	-	0.0048 U	0.0051 U	0.005 U	0.0002 U	-	0.0004 J	0.005 U	0.0012	-	0.0056 U	0.005 U
Metals																			
Aluminum	mg/L	0.05 J	0.66 ^{xab}	2.85 ^{xab}	1.4 ^{xab}	1.4 ^{xab}	1.7 ^{xab}	0.11	0.11	0.06	0.13	0.066 J	0.21	0.061	0.9 ^{xab}	0.16 J	0.051	0.05 U	
Aluminum (dissolved)	mg/L	--	-	0.479 ^{xab}	0.22	0.79 ^{xab}	0.9 ^{xab}	-	-	-	0.05 U	--	-	-	-	--	-	-	
Antimony	mg/L	0.0075 U	0.00092 J	0.005 U	0.0015 J	0.0075 U	0.0075 U	0.002 U	0.00058 J	0.005 U	0.0075 U	0.0075 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.002 U	0.002 U	
Antimony (dissolved)	mg/L	--	-	0.005 U	0.0014 J	0.0075 U	0.0075 U	-	-	-	0.002 U	--	-	-	-	-	-	-	
Arsenic	mg/L	0.013 J ^{abc}	0.034 ^{abc}	0.046 ^{abc}	0.052 ^{abc}	0.063 ^{abc}	0.066 ^{abc}	0.0085	0.00099 J	0.003	0.0049 J	0.0041 U	0.0012 J	0.002 U	0.005 U	0.0041 U	0.0094	0.0077	
Arsenic (dissolved)	mg/L	--	-	0.054 ^{abc}	0.054 ^{abc}	0.069 ^{abc}	0.065 ^{abc}	-	-	-	0.0039 J	--	-	-	-	--	-	-	
Barium	mg/L	0.088 J	0.067 J	0.03	0.022	0.02 J	0.02 J	0.13	0.041 J	0.125	0.13	0.1 J	0.13	0.052	0.074	0.063 J	0.13	0.1	
Barium (dissolved)	mg/L	--	-	0.012	0.013	0.014 J	0.014 J	-	-	-	0.12	--	-	-	-	-	-	-	
Beryllium	mg/L	0.0006 U	0.001 U	0.001 U	0.0006 U	0.0006 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	
Beryllium (dissolved)	mg/L	--	-	0.001 U	0.0006 U	0.0006 U	0.0006 U	-	-	-	0.001 U	--	-	-	-	--	-	-	
Cadmium	mg/L	0.00045 U	0.001 U	0.0006	0.00023 J	0.00045 U	0.00045 U	0.001 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.0005 U	0.00027 J	0.00045 U	0.001 U	0.001 U	
Cadmium (dissolved)	mg/L	--	-	0.0005 U	0.001 U	0.00045 U	0.00045 U	-	-	-	0.001 U	--	-	-	-	--	-	-	
Calcium	mg/L	74	54	16	12	9.9	9.6	130	36	127	130	110	93	92.3	97	84	190	120	
Calcium (dissolved)	mg/L	--	-	12.1	10	9.2	8.7	-	-	-	110	--	-	-	-	-	-	-	
Chromium	mg/L	0.00076 U	0.01 U	0.005 U	0.005 U	0.0013 J	0.0016 J	0.01 U	0.01 U	0.005 U	0.005 U	0.00076 U	0.01 U	0.005 U	0.0031 J	0.00076 U	0.01 U	0.01 U	
Chromium (dissolved)	mg/L	--	-	0.005 U	0.005 U	0.00076 U	0.0008 J	-	-	-	0.005 U	--	-	-	-	--	-	-	
Cobalt	mg/L	0.0015 J	0.0012 J	0.005 U	0.00097 J	0.00075 U	0.00086 J	0.0026 J	0.00022 J	0.005 U	0.00086 J	0.00075 U	0.0015 J	0.005 U	0.0021	0.0027 J			

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:			CRA-740I	CRA-740M	CRA-740M	CRA-740M	CRA-740M	CRA-740M	CRA-756M	CRA-756M	CRA-756M	CRA-756M	CRA-756M	CRA-799M	CRA-799M	CRA-799M	CRA-799M	CRA-806M	CRA-806M
Sample ID:			GW-12602792-051523-DR-024	GW-17358-080318-DR-069	GW-11223073-051221-DR-032	GW-11223073-060222-AC-042	GW-12602792-051523-DR-029	GW-12602792-051523-DR-031	GW-17358-073118-DR-021	GW-17358-051920-DR-014	GW-11223073-052821-DR-040	GW-11223073-053122-AC-015	GW-12602792-051223-DR-020	GW-17358-080118-DR-031	GW-11223073-051121-DR-014	GW-11223073-060222-AC-048	GW-12602792-051523-DA-041	GW-17358-073118-DR-022	GW-17358-051920-DR-015
Sample Date:			05/15/2023	08/03/2018	05/12/2021	06/02/2022	05/15/2023	05/15/2023 Duplicate	07/31/2018	05/19/2020	05/28/2021	05/31/2022	05/12/2023	08/01/2018	05/11/2021	06/02/2022	05/15/2023	07/31/2018	05/19/2020
Sample Type:																			
Aquifer			Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Parameters			Units																
Potassium	mg/L	13		54	11.4	23	40	42	11	8.9	16.6	14	12	12	14.8	11	18	10	11
Potassium (dissolved)	mg/L	--		-	9.85	24	42	40	-	-	-	12	--	-	-	-	--	-	-
Selenium	mg/L	0.006 U		0.005 U	0.005 U	0.0011 J	0.006 U	0.006 U	0.005 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	--		-	0.005 U	0.0011 J	0.006 U	0.006 U	-	-	-	0.005 U	--	-	-	-	--	-	-
Silver	mg/L	0.00062 U		0.0002 U	0.0005 U	0.001 U	0.00062 U	0.00062 U	0.0002 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	--		-	0.0005 U	0.001 U	0.00062 U	0.00062 U	-	-	-	0.001 U	--	-	-	-	--	-	-
Sodium	mg/L	98		110	120	110	100	110	70	12	80	77	49	590 ^{ab}		208	360 ^{ab}		210
Sodium (dissolved)	mg/L	--		-	119	120	110	100	-	-	-	68	--	-	-	-	--	-	-
Thallium	mg/L	0.0069 J ^{abc}		0.002 U	0.002 U	0.001 U	0.0027 U	0.0027 U	0.002 U	0.002 U	0.002 U	0.00058 J	0.0027 U	0.002 U	0.002 U	0.001 U	0.0027 U	0.002 U	0.002 U
Thallium (dissolved)	mg/L	--		-	0.002 U	0.001 U	0.0027 U	0.0027 U	-	-	-	0.00024 J	--	-	-	-	--	-	-
Vanadium	mg/L	0.0056 U		0.005 ^a		0.016 ^a		0.017 ^a		0.051 ^{bc}		0.05 ^{bc}		0.004 U	0.004 U	0.005 U	0.005 U	0.0056 U	0.004 U
Vanadium (dissolved)	mg/L	--		-	0.014 ^a		0.015 ^a		-	-	-	0.005 U	--	0.0033 J	0.005 U	0.0035 J	0.0056 U	0.004 U	0.004 U
Zinc	mg/L	0.023 U		0.05 U	0.018	0.02 U	0.023 U	0.023 U	0.05 U	0.05 U	0.012	0.023 U	0.023 U	0.015 J	0.009	0.043	0.023 U	0.015 J	0.05 U
Zinc (dissolved)	mg/L	--		-	0.005 U	0.02 U	0.023 U	0.023 U	-	-	-	0.02 U	--	-	-	-	--	-	-
Gas																			
Ethane	mg/L	-		0.001 U	-	0.00041 J	-	-	0.001 UJ	-	-	0.0019	-	0.001 U	-	0.001 U	-	0.0031	-
Ethene	mg/L	-		0.001 U	-	0.00027 J	-	-	0.0024 J	-	-	0.0042	-	0.001 U	-	0.001 U	-	0.001 U	-
Methane	mg/L	-		0.024	-	0.1	-	-	0.045 J	-	-	2.3	-	0.001 U	-	0.068	-	0.7	-
Field Parameters																			
Conductivity, field	mS/cm	-		1	0.581	0.735	-	-	1.02	0.282	1.24	1.079	-	3.27	1.486	1.24	-	1.76	1.06
Conductivity, field	uS/cm	900		-	-	-	710	710	-	-	-	-	800	-	-	-	125	-	-
Dissolved oxygen (DO), field	mg/L	0.59		0.03	0.82	0.12	0.34	0.34	0.23	0.04	0.29	0.63	0.4	0	1.28	0.91	0	0.17	0.06
Oxidation reduction potential (ORP), millivolts		-43.1		-262	-151	-188.7	-41.6	-41.6	-71	73	-9.1	-236.1	-76.3	-154	40	95.7	-166	-57	-100
pH, field	s.u.	7.27		8.56 ^{ab}		7.32	10.76 ^{abc}		7.19	7.48	6.92	6.88	6.97	7.29	6.88	7.446	7.6	6.77	7.05
Temperature, sample	Deg C	12.2		18.1	15.08	11.8	11.7	11.7	24.03	12.3	12.7	17.3	13.2	20.03	11.42	14.3	17.3	22.07	12.3
Turbidity, field	NTU	1.55		61.3	40.1	17.1	17.9	17.9	4.63	4.67	4.65	9.59	3.72	12	2.81	3.27	4.12	4.88	1.88

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-806M	CRA-806M	CRA-806M	CRA-807M	CRA-807M	CRA-807M	CRA-807M	CRA-807M	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-837ML	CRA-837ML	
Sample ID:	GW-11223073-052821-DR-041	GW-11223073-053122-AC-016	GW-12602792-051223-DR-021	GW-17358-080218-DR-058	GW-17358-102120-DR-010	GW-11223073-051321-DR-034	GW-11223073-060122-AC-034	GW-12602792-051223-CM-014	GW-17358-073018-DR-009	GW-17358-073018-DR-010	GW-17358-051820-DR-013	GW-11223073-051021-DR-010	WG-11223073-052622-AC-003	GW-12602792-051723-LK-056	GW-12602792-051723-LK-058	GW-17358-080118-DR-036	GW-17358-080118-DR-037		
Sample Date:	05/28/2021	05/31/2022	05/12/2023	08/02/2018	10/21/2020	05/13/2021	06/01/2022	05/12/2023	07/30/2018	07/30/2018 Duplicate	05/18/2020	05/10/2021	05/26/2022	05/17/2023	05/17/2023 Duplicate	08/01/2018	08/01/2018 Duplicate		
Sample Type:																			
Aquifer	Shallow	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Shallow	Shallow	
Parameters	Units																		
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.002 U	0.002 U	0.005 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U	0.001 U	
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
2-Butanone (Methyl ethyl ketone) (M	mg/L	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0013 J	0.0013 J	
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.027	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.013	0.012	
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Carbon disulfide	mg/L	0.005 U	0.001 U	0.001 U	0.025 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.00031 J	
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,2-Dichloroethene	mg/L	0.001 U	0.00053 J	0.001 U	0.0099 J	0.0073	0.005	0.0076	0.013	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.							

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-806M	CRA-806M	CRA-806M	CRA-807M	CRA-807M	CRA-807M	CRA-807M	CRA-807M	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-837ML	CRA-837ML
Sample ID:	GW-11223073-052821-DR-041	GW-11223073-053122-AC-016	GW-12602792-051223-DR-021	GW-17358-080218-DR-058	GW-17358-102120-DR-010	GW-11223073-051321-DR-034	GW-11223073-060122-AC-034	GW-12602792-051223-CM-014	GW-17358-073018-DR-009	GW-17358-073018-DR-010	GW-17358-051820-DR-013	GW-11223073-051021-DR-010	WG-11223073-052622-AC-003	GW-12602792-051723-LK-056	GW-12602792-051723-LK-058	GW-17358-080118-DR-036	GW-17358-080118-DR-037	
Sample Date:	05/28/2021	05/31/2022	05/12/2023	08/02/2018	10/21/2020	05/13/2021	06/01/2022	05/12/2023	07/30/2018	07/30/2018	05/18/2020	05/10/2021	05/26/2022	05/17/2023	05/17/2023	08/01/2018	08/01/2018	
Sample Type:										Duplicate					Duplicate		Duplicate	
Aquifer	Shallow	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Shallow	Shallow	
Parameters	Units																	
Acenaphthene	mg/L	0.005 U	0.0002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00019 U	-	-	0.0051 U	0.0048 U	
Acenaphthylene	mg/L	0.005 U	0.0002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00019 U	-	-	0.0051 U	0.0048 U	
Acetophenone	mg/L	0.005 U	0.001 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00096 U	-	-	0.0051 U	0.0048 U	
Anthracene	mg/L	0.005 U	0.0002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00019 U	-	-	0.0051 U	0.0048 U	
Atrazine	mg/L	0.003 U	0.002 U	-	0.0029 U	-	-	-	0.0029 U	0.0029 U	0.0031 U	0.003 U	0.0019 U	-	-	0.0031 U	0.0029 U	
Benzaldehyde	mg/L	0.005 U	0.002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.0019 U	-	-	0.0051 U	0.0048 U	
Benzo(a)anthracene	mg/L	0.001 U	0.0002 U	-	0.00097 U	-	-	-	0.00096 U	0.00095 U	0.001 U	0.001 U	0.00019 U	-	-	0.001 U	0.00095 U	
Benzo(a)pyrene	mg/L	0.001 U	0.0002 U	-	0.00097 U	-	-	-	0.00096 U	0.00095 U	0.001 U	0.001 U	0.00019 U	-	-	0.001 U	0.00095 U	
Benzo(b)fluoranthene	mg/L	0.001 U	0.0002 U	-	0.00097 U	-	-	-	0.00096 U	0.00095 U	0.001 U	0.001 U	0.00019 U	-	-	0.001 U	0.00095 U	
Benzo(g,h,i)perylene	mg/L	0.001 U	0.0002 U	-	0.00097 U	-	-	-	0.00096 U	0.00095 U	0.001 U	0.001 U	0.00019 U	-	-	0.001 U	0.00095 U	
Benzo(k)fluoranthene	mg/L	0.001 U	0.0002 U	-	0.00097 U	-	-	-	0.00096 U	0.00095 U	0.001 U	0.001 U	0.00019 U	-	-	0.001 U	0.00095 U	
Biphenyl (1,1-Biphenyl)	mg/L	0.005 U	0.001 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00096 U	-	-	0.0051 U	0.0048 U	
bis(2-Chloroethoxy)methane	mg/L	0.005 U	0.001 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00096 U	-	-	0.0051 U	0.0048 U	
bis(2-Chloroethyl)ether	mg/L	0.001 U	0.001 U	-	0.00097 U	-	-	-	0.00096 U	0.00095 U	0.001 U	0.001 U	0.00096 U	-	-	0.001 U	0.00095 U	
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.005 U	0.005 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.0048 U	-	-	0.0051 U	0.0048 U	
Butyl benzylphthalate (BBP)	mg/L	0.005 U	0.002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.0019 U	-	-	0.0051 U	0.0048 U	
Caprolactam	mg/L	0.01 U	0.005 U	-	0.0097 U	-	-	-	0.0096 U	0.0095 U	0.01 U	0.01 U	0.0029 JB	-	-	0.00043 J	0.0095 U	
Carbazole	mg/L	0.01 U	0.001 U	-	0.0097 U	-	-	-	0.0096 U	0.0095 U	0.01 U	0.01 U	0.00096 U	-	-	0.01 U	0.0095 U	
Chrysene	mg/L	0.001 U	0.0002 U	-	0.00097 U	-	-	-	0.00096 U	0.00095 U	0.001 U	0.001 U	0.00019 U	-	-	0.001 U	0.00095 U	
Dibenz(a,h)anthracene	mg/L	0.002 U	0.0002 U	-	0.0019 U	-	-	-	0.0019 U	0.0019 U	0.0021 U	0.002 U	0.00019 U	-	-	0.002 U	0.0019 U	
Dibenzofuran	mg/L	0.004 U	0.001 U	-	0.0039 U	-	-	-	0.0038 U	0.0038 U	0.0041 U	0.004 U	0.00096 U	-	-	0.0041 U	0.0038 U	
Diethyl phthalate	mg/L	0.005 U	0.005 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.0048 U	-	-	0.0051 U	0.0048 U	
Dimethyl phthalate	mg/L	0.005 U	0.002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.0019 U	-	-	0.0051 U	0.0048 U	
Di-n-butylphthalate (DBP)	mg/L	0.005 U	0.005 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.0048 U	-	-	0.0051 U	0.0048 U	
Di-n-octyl phthalate (DnOP)	mg/L	0.005 U	0.002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.0019 U	-	-	0.0051 U	0.0048 U	
Fluoranthene	mg/L	0.001 U	0.0002 U	-	0.00097 U	-	-	-	0.00096 U	0.00095 U	0.001 U	0.001 U	0.00019 U	-	-	0.001 U	0.00095 U	
Fluorene	mg/L	0.005 U	0.0002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00019 U	-	-	0.0051 U	0.0048 U	
Hexachlorobenzene	mg/L	0.0002 U	0.0002 U	-	0.00019 U	-	-	-	0.00019 U	0.00019 U	0.00021 U	0.0002 U	0.00019 U	-	-	0.0002 U	0.00019 U	
Hexachlorobutadiene	mg/L	0.001 U	0.001 U	-	0.00097 U	-	-	-	0.00096 U	0.00095 U	0.001 U	0.001 U	0.00096 U	-	-	0.001 U	0.00095 U	
Hexachlorocyclopentadiene	mg/L	0.005 U	0.01 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00096 U	-	-	0.0051 U	0.0048 U	
Hexachloroethane	mg/L	0.005 U	0.001 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00096 U	-	-	0.0051 U	0.0048 U	
Indeno(1,2,3-cd)pyrene	mg/L	0.002 U	0.0002 U	-	0.0019 U	-	-	-	0.0019 U	0.0019 U	0.0021 U	0.002 U	0.00019 U	-	-	0.002 U	0.0019 U	
Isophorone	mg/L	0.005 U	0.001 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00096 U	-	-	0.0051 U	0.0048 U	
Naphthalene	mg/L	0.005 U	0.0002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00019 U	-	-	0.0051 U	0.0048 U	
Nitrobenzene	mg/L	0.003 U	0.001 U	-	0.0029 U	-	-	-	0.0029 U	0.0029 U	0.0031 U	0.003 U	0.00096 U	-	-	0.0031 U	0.0029 U	
N-Nitrosodi-n-propylamine	mg/L	0.005 U	0.001 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00096 U	-	-	0.0051 U	0.0048 U	
N-Nitrosodiphenylamine	mg/L	0.005 U	0.001 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00096 U	-	-	0.0051 U	0.0048 U	
Pentachlorophenol	mg/L	0.005 U	0.01 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.0096 U	-	-	0.0051 U	0.0048 U	
Phenanthrene	mg/L	0.002 U	0.0002 U	-	0.0019 U	-	-	-	0.0019 U	0.0019 U	0.0021 U	0.002 U	0.00019 U	-	-	0.002 U	0.0019 U	
Phenol	mg/L	0.005 U	0.001 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00096 U	-	-	0.0051 U	0.0048 U	
Pyrene	mg/L	0.005 U	0.0002 U	-	0.0049 U	-	-	-	0.0048 U	0.0048 U	0.0052 U	0.005 U	0.00019 U	-	-	0.0051 U	0.0048 U	
Metals																		
Aluminum	mg/L	0.023	0.05 U	0.047 U	0.038 J	-	-	0.05 U	0.05 U	0.05 U	0.043 J	0.01 U	0.05 U	0.047 U	0.047 U	0.18	0.13	
Aluminum (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	--	--	-	-	
Antimony	mg/L	0.005 U	0.002 U	0.0075 U	0.002 U	-	-	0.002 U	0.00084 J	0.00073 J	0.00067 J	0.005 U	0.002 U	0.0075 U	0.0075 U	0.002 U	0.002 U	
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	--	--	-	-	
Arsenic	mg/L	0.013 ^{abc}	0.0043 J	0.0099 J	0.0045 J	-	-	0.011 ^{abc}	0.0021 J	0.0023 J	0.0021 J	0.002 U	0.0012 J	0.024 ^{abc}	0.021 ^{abc}	0.0016 J	0.0015 J	
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	--	--	-	-	
Barium	mg/L	0.139	0.13	0.15 J	0.079 J	-	-	0.24	0.012 J	0.013 J	0.016 J	0.017	0.045	0.12 J	0.12 J	0.041 J	0.041 J	
Barium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	--	--	-	-	
Beryllium	mg/L	0.001 U	0.001 U	0.0006 U	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.0006 U	0.001 U	0.001 U	
Beryllium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	--	--	-	-	
Cadmium	mg/L	0.0005 U	0.001 U	0.00045 U	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.00021 J	0.00045 U	0.00045 U	0.001 U	0.001 U	
Cadmium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	--	--	-	-	
Calcium	mg/L	110	79	95	95	-	-	120	82	82	80	94.7	110	110	110	30	31	
Calcium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	mg/L	0.005 U	0.005 U	0.00076 U	0.01 U	-	-	0.005 U	0.01 U	0.01 U	0.01 U	0.005 U	0.005 U	0.00076 U	0.00076 U	0.01 U	0.01 U	
Chromium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	--	--	-	-	
Cobalt	mg/L	0.005 U	0.0014	0.0015 J	0.0024 J	-	-	0.0029	0.00069 J	0.00071 J	0.0032 J	0.005 U	0.0027	0.005 J	0.0047 J	0.02 U	0.02 U	
Cobalt (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	--	--	-	-	
Copper	mg/L	0.005 U	0.002 U	0.0035 U	0.004 U	-	-	0.002 U	0.004 U	0.004 U	0.004 U	0.005 U	0.002 U	0.0035 U	0.0035 U	0.004 U	0.004 U	
Copper (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	--	--	-	-	
Iron	mg/L	3.18 ^{xab}	1.2 ^{xab}	5 ^{xab}	0.58	-	-	3.9 ^{xab}	0.45	0.5	0.65	0.31	0.52	12 ^{xab}	11 ^{xab}	0.35	0.32	
Iron (dissolved)	mg/L	-	1.2 ^{xab}	--	-	-	-	2.9 ^{xab}	-	-	-	-	0.43	--	--	-	-	
Lead	mg/L	0.003 U	0.001 U	0.0042 J	0.0005 J	-	-	0.001 U	0.003 U	0.003 U	0.003 U	0.003 U	0.001 U	0.0028 U	0.0028 U	0.003 U	0.003 U	
Lead (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	--	--	-	-	
Magnesium	mg/L	15.9	12	14	13	-	-	24	12	13	13	17.7	21	18	17	2	2	
Magnesium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	--	--	-	-	
Manganese	mg/L	0.52	0.42	0.33	0.37	-	-	0.33	0.19	0.21	0.8 ^{xab}	0.525	1.1 ^{xab}	0.38	0.36	0.016 J	0.015 J	
Manganese (dissolved)	mg/L	-	0.49	--	0.35	-	-	0.25	0.21									

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-806M	CRA-806M	CRA-806M	CRA-807M	CRA-807M	CRA-807M	CRA-807M	CRA-807M	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-827ML	CRA-837ML	CRA-837ML
Sample ID:	GW-11223073-052821-DR-041	GW-11223073-053122-AC-016	GW-12602792-051223-DR-021	GW-17358-080218-DR-058	GW-17358-102120-DR-010	GW-11223073-051321-DR-034	GW-11223073-060122-AC-034	GW-12602792-051223-CM-014	GW-17358-073018-DR-009	GW-17358-073018-DR-010	GW-17358-051820-DR-013	GW-11223073-051021-DR-010	WG-11223073-052622-AC-003	GW-12602792-051723-LK-056	GW-12602792-051723-LK-058	GW-12602792-051723-LK-058	GW-17358-080118-DR-036	GW-17358-080118-DR-037
Sample Date:	05/28/2021	05/31/2022	05/12/2023	08/02/2018	10/21/2020	05/13/2021	06/01/2022	05/12/2023	07/30/2018	07/30/2018	05/18/2020	05/10/2021	05/26/2022	05/17/2023	05/17/2023	05/17/2023	08/01/2018	08/01/2018
Sample Type:										Duplicate					Duplicate			Duplicate
Aquifer	Shallow	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Lower Shallow	Shallow	Shallow
Parameters	Units																	
Potassium	mg/L	10.8	7.1	8.8	5.2	-	-	31	-	3.3	3.3	2.5	2.43	2.7	9	8.3	0.63 J	0.62 J
Potassium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	-	--	--	-	-
Selenium	mg/L	0.005 U	0.005 U	0.006 U	0.005 U	-	-	0.005 U	-	0.005 U	0.005 U	0.0019 J	0.005 U	0.005 U	0.006 U	0.006 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	-	--	--	-	-
Silver	mg/L	0.0005 U	0.001 U	0.00062 U	0.0002 U	-	-	0.001 U	-	0.0002 U	0.0002 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.00062 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	-	--	--	-	-
Sodium	mg/L	67.9	33	49	46	-	-	60	-	11	11	23	23.9	52	150	150	5.2	5.3
Sodium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	-	--	--	-	-
Thallium	mg/L	0.002 U	0.001 U	0.0027 U	0.002 U	-	-	0.001 U	-	0.002 U	0.002 U	0.002 U	0.002 U	0.001 U	0.012 J ^{xabc}	0.0058 J ^{xabc}	0.002 U	0.002 U
Thallium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	-	--	--	-	-
Vanadium	mg/L	0.005 U	0.005 U	0.0056 U	0.004 U	-	-	0.005 U	-	0.004 U	0.004 U	0.004 U	0.005 U	0.005 U	0.0056 U	0.0056 U	0.002 J	0.0019 J
Vanadium (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	-	--	--	-	-
Zinc	mg/L	0.005	0.02 U	0.023 U	0.05 U	-	-	0.02 U	-	0.05 U	0.05 U	0.05 U	0.005 U	0.02 U	0.023 U	0.023 U	0.05 U	0.05 U
Zinc (dissolved)	mg/L	-	-	--	-	-	-	-	-	-	-	-	-	-	--	--	-	-
Gas																		
Ethane	mg/L	-	0.0051	-	0.0033	-	-	0.037	-	0.001 U	0.001 U	-	-	0.00043 JB	-	-	0.001 U	0.001 U
Ethene	mg/L	-	0.0009 J	-	0.001 U	-	-	0.00066 J	-	0.001 U	0.001 U	-	-	0.00054 J	-	-	0.001 U	0.001 U
Methane	mg/L	-	1.3	-	0.85	-	-	5	-	0.015	0.018	-	-	1.6	-	-	0.025	0.025
Field Parameters																		
Conductivity, field	mS/cm	1.09	0.642	-	0.69	-	1.05	0.843	-	0.51	0.51	0.546	0.624	0.815	-	-	0.17	0.17
Conductivity, field	uS/cm	-	-	760	-	-	-	-	1440	-	-	-	-	-	134	134	-	-
Dissolved oxygen (DO), field	mg/L	0.2	0.55	0.28	0.03	-	1.24	0.69	0	0.04	0.04	0.04	0.68	0.66	0	0	2	2
Oxidation reduction potential (ORP), millivolts		-73.3	-266.1	-109.2	-52.2	-	-131	-255.3	-144	-48.1	-48.1	-17	-13	101.2	-155	-155	25	25
pH, field	s.u.	7.07	7.2	7.1	7.31	-	7.45	7.24	7.34	7.25	7.25	7.25	6.21 ^{abc}	6.98	7.27	7.27	7.72	7.72
Temperature, sample	Deg C	13.1	19.5	13.8	21.5	-	11.72	14.7	17.01	20.61	20.61	10.9	10.59	17	12.85	12.85	22.78	22.78
Turbidity, field	NTU	1.07	3.42	3.12	4.39	-	3.21	3.64	3.45	1.12	1.12	4.56	1.95	0.95	4.5	4.5	10.8	10.8

Table 5
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2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-837ML	CRA-837ML	CRA-837ML	CRA-837ML	CRA-837ML	CRA-858I	CRA-858I	CRA-858I	CRA-858I	CRA-858I	CRA-884M	CRA-884M	CRA-884M	CRA-884M	CRA-887I	CRA-887I	CRA-887I	
Sample ID:	GW-17358-051820-DR-009	GW-17358-052120-DR-009	GW-11223073-051021-DR-009	WG-11223073-052622-AC-007	GW-12602792-051623-DR-050	GW-17358-080318-DR-061	GW-17358-102120-DR-005	GW-11223073-060421-DA-057	GW-11223073-060222-AC-046	GW-12602792-051123-CM-008	GW-17358-083018-DR-106	GW-11223073-051021-DR-004	GW-11223073-060222-AC-053	GW-12602792-051523-CM-027	GW-17358-080218-DR-053	GW-11223073-071921-DA-003	GW-11223073-060222-AC-054	
Sample Date:	05/18/2020	05/21/2020	05/10/2021	05/26/2022	05/16/2023	08/03/2018	10/21/2020	06/04/2021	06/02/2022	05/11/2023	08/30/2018	05/10/2021	06/02/2022	05/15/2023	08/02/2018	07/19/2021	06/02/2022	
Sample Type:																		
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	
Parameters	Units																	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2,4-Trichlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	-	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.004 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.002 U	
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloropropane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
2-Butanone (Methyl ethyl ketone) (M	mg/L	0.01 U	-	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
2-Hexanone	mg/L	0.01 U	-	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	-	0.01 U	0.01 U	0.00088 J	0.02 U	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Acetone	mg/L	0.01 U	-	0.01 U	0.01 U	0.0066 J	0.02 U	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Benzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromodichloromethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromoform	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromomethane (Methyl bromide)	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Carbon disulfide	mg/L	0.005 U	-	0.005 U	0.001 U	0.0013 J	0.01 U	0.005 U	0.002 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.001 U	
Carbon tetrachloride	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroform (Trichloromethane)	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloromethane (Methyl chloride)	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,2-Dichloroethene	mg/L	0.001 U	-	0.001 U	0.001 U	0.00032 J	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,3-Dichloropropene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Cyclohexane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dibromochloromethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Ethylbenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Isopropyl benzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
m&p-Xylenes	mg/L	-	-	0.002 U	-	-	0.002 U	-	-	-	-	0.002 U	-	-	-			

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-837ML	CRA-837ML	CRA-837ML	CRA-837ML	CRA-837ML	CRA-858I	CRA-858I	CRA-858I	CRA-858I	CRA-858I	CRA-884M	CRA-884M	CRA-884M	CRA-884M	CRA-887I	CRA-887I	CRA-887I	
Sample ID:	GW-17358-051820-DR-009	GW-17358-052120-DR-009	GW-11223073-051021-DR-009	WG-11223073-052622-AC-007	GW-12602792-051623-DR-050	GW-17358-080318-DR-061	GW-17358-102120-DR-005	GW-11223073-060421-DA-057	GW-11223073-060222-AC-046	GW-12602792-051123-CM-008	GW-17358-083018-DR-106	GW-11223073-051021-DR-004	GW-11223073-060222-AC-053	GW-12602792-051523-CM-027	GW-17358-080218-DR-053	GW-11223073-071921-DA-003	GW-11223073-060222-AC-054	
Sample Date:	05/18/2020	05/21/2020	05/10/2021	05/26/2022	05/16/2023	08/03/2018	10/21/2020	06/04/2021	06/02/2022	05/11/2023	08/30/2018	05/10/2021	06/02/2022	05/15/2023	08/02/2018	07/19/2021	06/02/2022	
Sample Type:																		
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	
Parameters	Units																	
Acenaphthene	mg/L	0.005 U	-	0.005 U	0.00024 U	-	0.0053 U	-	0.005 U	0.0002 U	-	0.0053 U	0.005 U	0.0002 U	-	0.0051 U	0.005 U	0.00019 U
Acenaphthylene	mg/L	0.005 U	-	0.005 U	0.00024 U	-	0.0053 U	-	0.005 U	0.0002 U	-	0.0053 U	0.005 U	0.0002 U	-	0.0051 U	0.005 U	0.00019 U
Acetophenone	mg/L	0.005 U	-	0.005 U	0.0012 U	-	0.0053 U	-	0.005 U	0.001 U	-	0.0053 U	0.005 U	0.001 U	-	0.0051 U	0.005 U	0.00096 U
Anthracene	mg/L	0.005 U	-	0.005 U	0.00024 U	-	0.00019 J	-	0.005 U	0.0002 U	-	0.0053 U	0.005 U	0.0002 U	-	0.0051 U	0.005 U	0.00019 U
Atrazine	mg/L	0.003 U	-	0.003 U	0.0024 U	-	0.0032 U	-	0.003 U	0.002 U	-	0.0032 U	0.003 U	0.002 U	-	0.0031 U	0.003 U	0.0019 U
Benzaldehyde	mg/L	0.005 U	-	0.005 U	0.0024 U	-	0.0053 U	-	0.005 U	0.002 U	-	0.0053 U	0.005 U	0.002 U	-	0.0051 U	0.005 U	0.0019 U
Benzo(a)anthracene	mg/L	0.001 U	-	0.001 U	0.00024 U	-	0.0016	-	0.001 U	0.0002 U	-	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.00019 U
Benzo(a)pyrene	mg/L	0.001 U	-	0.001 U	0.00032	-	0.0012	-	0.001 U	0.0002 U	-	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.00019 U
Benzo(b)fluoranthene	mg/L	0.001 U	-	0.001 U	0.00063	-	0.0022 ^{abf}	-	0.001 U	0.0002 U	-	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.00019 U
Benzo(g,h,i)perylene	mg/L	0.001 U	-	0.001 U	0.00024 U	-	0.00076 J ^f	-	0.001 U	0.0002 U	-	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.00019 U
Benzo(k)fluoranthene	mg/L	0.001 U	-	0.001 U	0.00024 U	-	0.00068 J	-	0.001 U	0.0002 U	-	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.00019 U
Biphenyl (1,1-Biphenyl)	mg/L	0.005 U	-	0.005 U	0.0012 U	-	0.0053 U	-	0.005 U	0.001 U	-	0.0053 U	0.005 U	0.001 U	-	0.0051 U	0.005 U	0.00096 U
bis(2-Chloroethoxy)methane	mg/L	0.005 U	-	0.005 U	0.0012 U	-	0.0053 U	-	0.005 U	0.001 U	-	0.0053 U	0.005 U	0.001 U	-	0.0051 U	0.005 U	0.00096 U
bis(2-Chloroethyl)ether	mg/L	0.001 U	-	0.001 U	0.0012 U	-	0.0011 U	-	0.001 U	0.001 U	-	0.0011 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.00096 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.005 U	-	0.005 U	0.006 U	-	0.0053 U	-	0.005 U	0.005 U	-	0.0053 U	0.005 U	0.005 U	-	0.031 ^{abc}	0.005 U	0.0048 U
Butyl benzylphthalate (BBP)	mg/L	0.005 U	-	0.005 U	0.0024 U	-	0.0053 U	-	0.005 U	0.002 U	-	0.0053 U	0.005 U	0.002 U	-	0.0051 U	0.005 U	0.0019 U
Caprolactam	mg/L	0.01 U	-	0.01 U	0.006 U	-	0.0041 J	-	0.01 U	0.005 U	-	0.011 U	0.01 U	0.005 U	-	0.01 U	0.01 U	0.0048 U
Carbazole	mg/L	0.01 U	-	0.01 U	0.0012 U	-	0.011 U	-	0.01 U	0.001 U	-	0.011 U	0.01 U	0.001 U	-	0.01 U	0.01 U	0.00096 U
Chrysene	mg/L	0.001 U	-	0.001 U	0.00043	-	0.0018 ^{abf}	-	0.001 U	0.0002 U	-	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.00019 U
Dibenz(a,h)anthracene	mg/L	0.002 U	-	0.002 U	0.00024 U	-	0.0021 U	-	0.002 U	0.0002 U	-	0.0021 U	0.002 U	0.0002 U	-	0.002 U	0.002 U	0.00019 U
Dibenzofuran	mg/L	0.004 U	-	0.004 U	0.0012 U	-	0.0043 U	-	0.004 U	0.001 U	-	0.0042 U	0.004 U	0.001 U	-	0.0041 U	0.004 U	0.00096 U
Diethyl phthalate	mg/L	0.005 U	-	0.005 U	0.006 U	-	0.0053 U	-	0.005 U	0.005 U	-	0.0053 U	0.005 U	0.005 U	-	0.0051 U	0.005 U	0.0048 U
Dimethyl phthalate	mg/L	0.005 U	-	0.005 U	0.0024 U	-	0.0053 U	-	0.005 U	0.002 U	-	0.0053 U	0.005 U	0.002 U	-	0.0051 U	0.005 U	0.0019 U
Di-n-butylphthalate (DBP)	mg/L	0.005 U	-	0.005 U	0.006 U	-	0.0053 U	-	0.005 U	0.005 U	-	0.0053 U	0.005 U	0.005 U	-	0.0051 U	0.005 U	0.0048 U
Di-n-octyl phthalate (DnOP)	mg/L	0.005 U	-	0.005 U	0.0024 U	-	0.0053 U	-	0.005 U	0.002 U	-	0.0053 U	0.005 U	0.002 U	-	0.0051 U	0.005 U	0.0019 U
Fluoranthene	mg/L	0.001 U	-	0.001 U	0.0008	-	0.0029 ^c	-	0.001 U	0.0002 U	-	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.00019 U
Fluorene	mg/L	0.005 U	-	0.005 U	0.00024 U	-	0.0053 U	-	0.005 U	0.0002 U	-	0.0053 U	0.005 U	0.0002 U	-	0.0051 U	0.005 U	0.00019 U
Hexachlorobenzene	mg/L	0.0002 U	-	0.0002 U	0.00024 U	-	0.00021 U	-	0.0002 U	0.0002 U	-	0.00021 U	0.0002 U	0.0002 U	-	0.0002 U	0.01 U	0.00019 U
Hexachlorobutadiene	mg/L	0.001 U	-	0.001 U	0.0012 U	-	0.0011 U	-	0.001 U	0.001 U	-	0.0011 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.00096 U
Hexachlorocyclopentadiene	mg/L	0.005 U	-	0.005 U	0.012 U	-	0.0053 U	-	0.005 U	0.01 U	-	0.0053 U	0.005 U	0.01 U	-	0.0051 U	0.005 U	0.0096 U
Hexachloroethane	mg/L	0.005 U	-	0.005 U	0.0012 U	-	0.0053 U	-	0.005 U	0.001 U	-	0.0053 U	0.005 U	0.001 U	-	0.0051 U	0.005 U	0.00096 U
Indeno(1,2,3-cd)pyrene	mg/L	0.002 U	-	0.002 U	0.00024 U	-	0.00063 J ^f	-	0.002 U	0.0002 U	-	0.0021 U	0.002 U	0.0002 U	-	0.002 U	0.002 U	0.00019 U
Isophorone	mg/L	0.005 U	-	0.005 U	0.0012 U	-	0.0053 U	-	0.005 U	0.001 U	-	0.0053 U	0.005 U	0.001 U	-	0.0051 U	0.005 U	0.00096 U
Naphthalene	mg/L	0.005 U	-	0.005 U	0.00024 U	-	0.00013 J	-	0.005 U	0.0002 U	-	0.0053 U	0.005 U	0.0002 U	-	0.0051 U	0.005 U	0.00019 U
Nitrobenzene	mg/L	0.003 U	-	0.003 U	0.0012 U	-	0.0032 U	-	0.003 U	0.001 U	-	0.0032 U	0.003 U	0.001 U	-	0.0031 U	0.003 U	0.00096 U
N-Nitrosodi-n-propylamine	mg/L	0.005 U	-	0.005 U	0.0012 U	-	0.0053 U	-	0.005 U	0.001 U	-	0.0053 U	0.005 U	0.001 U	-	0.0051 U	0.005 U	0.00096 U
N-Nitrosodiphenylamine	mg/L	0.005 U	-	0.005 U	0.0012 U	-	0.0053 U	-	0.005 U	0.001 U	-	0.0053 U	0.005 U	0.001 U	-	0.0051 U	0.005 U	0.00096 U
Pentachlorophenol	mg/L	0.005 U	-	0.005 U	0.012 U	-	0.0053 U	-	0.005 U	0.01 U	-	0.0053 U	0.005 U	0.01 U	-	0.0051 U	0.005 U	0.0096 U
Phenanthrene	mg/L	0.002 U	-	0.002 U	0.00027	-	0.00064 J	-	0.002 U	0.0002 U	-	0.0021 U	0.002 U	0.0002 U	-	0.002 U	0.002 U	0.00019 U
Phenol	mg/L	0.005 U	-	0.005 U	0.0012 U	-	0.0006 J	-	0.005 U	0.001 U	-	0.0053 U	0.005 U	0.001 U	-	0.0051 U	0.005 U	0.00096 U
Pyrene	mg/L	0.005 U	-	0.005 U	0.00079	-	0.0028 J	-	0.005 U	0.0002 U	-	0.0053 U	0.005 U	0.0002 U	-	0.0051 U	0.005 U	0.00019 U
Metals																		
Aluminum	mg/L	-	0.092	0.018	0.17	0.052 JB	0.56 ^{xab}	-	0.027	0.054	0.047 U	0.1	0.016	0.053	1.2 ^{xab}	0.11	0.628 ^{xab}	0.11
Aluminum (dissolved)	mg/L	-	0.05 U	-	0.054	--	-	-	-	-	--	-	-	-	--	-	-	-
Antimony	mg/L	-	0.002 U	0.005 U	0.002 U	0.0075 U	0.002 U	-	0.005 U	0.002 U	0.0075 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.002 U	0.005 U	0.002 U
Antimony (dissolved)	mg/L	-	0.002 U	-	0.002 U	--	-	-	-	-	-	-	-	-	--	-	-	-
Arsenic	mg/L	-	0.012 ^{abc}	0.008	0.018 ^{abc}	0.021 ^{abc}	0.064 ^{abc}	-	0.002	0.0016 J	0.01 J	0.0016 J	0.002 U	0.005 U	0.0041 U	0.005 U	0.002 U	0.005 U
Arsenic (dissolved)	mg/L	-	0.0097	-	0.016 ^{abc}	--	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	0.13	0.116	0.24	0.74	0.17	-	0.087	0.06	0.22	0.037 J	0.007	0.014	0.071 J	0.01 J	0.051	0.039
Barium (dissolved)	mg/L	-	0.13	-	0.22	--	-	-	-	-	--	-	-	-	--	-	-	-
Beryllium	mg/L	-	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	-	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	0.001 U	-	0.001 U	--	-	-	-	-	--	-	-	-	--	-	-	-
Cadmium	mg/L	-	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	-	0.0005 U	0.001 U	0.00045 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.0005 U	0.001 U
Cadmium (dissolved)	mg/L	-	0.001 U	-	0.001 U	--	-	-	-	-	--	-	-	-	--	-	-	-
Calcium	mg/L	-	100	109	150	170	190	-	38.8	18	100	72	50.4	67	52	76	230	210
Calcium (dissolved)	mg/L	-	100	-	140	--	-	-	-	-	--	-	-	-	-	-	-	-
Chromium	mg/L	-	0.01 U	0.005 U	0.005 U	0.00076 U	0.017 ^c	-	0.005 U	0.005 U	0.00076 U	0.01 U	0.005 U	0.005 U	0.0037 J	0.01 U	0.005 U	0.005 U
Chromium (dissolved)	mg/L	-	0.01 U	-	0.005 U	--	-	-	-	-	--	-	-	-	--	-	-	-
Cobalt	mg/L	-	0.0099 J	0.003 U	0.0011	0.0028 U	0.061 ^{xab}	-	0.003 U	0.001 U	0.0028 U	0.0011 J	0.003 U	0.001 U	0.008 J ^{xab}	0.003 U	0.003 U	0.001 U
Lead (dissolved)	mg/L	-	0.003 U	-	0.001 U	--	-	-	-	-	--	-	-	-	--	-	-	-
Magnesium	mg/L	-	19	17.4	26	31	51	-	38.1	20	70	12	9.44	12	9.8	8.7	29.4	29
Magnesium (dissolved)	mg/L	-	19	-	26	--	-	-	-	-	--	-	-	-	--	-	-	-
Manganese	mg/L	-	0.12	0.203	0.22	0.5	0.077	-	0.005 U	0.014	0.25	0.31	0.005 U	0.01 U	0.077	0.072	0.566	0.12
Manganese (dissolved)	mg/L	-	0.12	-	0.23	--	0.08	-	-	0.013	--	0.3						

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-837ML	CRA-837ML	CRA-837ML	CRA-837ML	CRA-837ML	CRA-858I	CRA-858I	CRA-858I	CRA-858I	CRA-858I	CRA-884M	CRA-884M	CRA-884M	CRA-884M	CRA-887I	CRA-887I	CRA-887I	
Sample ID:	GW-17358-051820-DR-009	GW-17358-052120-DR-009	GW-11223073-051021-DR-009	WG-11223073-052622-AC-007	GW-12602792-051623-DR-050	GW-17358-080318-DR-061	GW-17358-102120-DR-005	GW-11223073-060421-DA-057	GW-11223073-060222-AC-046	GW-12602792-051123-CM-008	GW-17358-083018-DR-106	GW-11223073-051021-DR-004	GW-11223073-060222-AC-053	GW-12602792-051523-CM-027	GW-17358-080218-DR-053	GW-11223073-071921-DA-003	GW-11223073-060222-AC-054	
Sample Date:	05/18/2020	05/21/2020	05/10/2021	05/26/2022	05/16/2023	08/03/2018	10/21/2020	06/04/2021	06/02/2022	05/11/2023	08/30/2018	05/10/2021	06/02/2022	05/15/2023	08/02/2018	07/19/2021	06/02/2022	
Sample Type:																		
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	
Parameters	Units																	
Potassium	mg/L	-	1.1	1.29	1.5	13	12	-	4.48	2.7	5.5	1.8	1 U	0.49 J	2.4 J	0.57 J	1.52	1.4
Potassium (dissolved)	mg/L	-	1.1	-	1.5	--	-	-	-	-	--	-	-	-	--	-	-	-
Selenium	mg/L	-	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	-	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	0.005 U	-	0.005 U	--	-	-	-	-	--	-	-	-	--	-	-	-
Silver	mg/L	-	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	-	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.001 U
Silver (dissolved)	mg/L	-	0.0002 U	-	0.001 U	--	-	-	-	-	--	-	-	-	--	-	-	-
Sodium	mg/L	-	62	34.7	110	130	94	-	5.37	13	190	6.6	2.18	5	24	4.9	39.5	36
Sodium (dissolved)	mg/L	-	61	-	110	--	-	-	-	-	--	-	-	-	--	-	-	-
Thallium	mg/L	-	0.002 U	0.002 U	0.001 U	0.0027 J ^{xsab}	0.002 U	-	0.002 U	0.001 U	0.0027 U	0.002 U	0.002 U	0.001 U	0.0027 U	0.002 U	0.002 U	0.001 U
Thallium (dissolved)	mg/L	-	0.002 U	-	0.001 U	--	-	-	-	-	--	-	-	-	--	-	-	-
Vanadium	mg/L	-	0.004 U	0.005 U	0.00093 J	0.0056 U	0.0029 J	-	0.005 U	0.004 J	0.0056 U	0.00091 J	0.005 U	0.005 U	0.0056 U	0.0011 J	0.005 U	0.005 U
Vanadium (dissolved)	mg/L	-	0.004 U	-	0.005 U	--	-	-	-	-	--	-	-	-	--	-	-	-
Zinc	mg/L	-	0.05 U	0.007	0.02 U	0.023 U	0.032 J	-	0.005 U	0.02 U	0.023 U	0.05 U	0.005 U	0.02 U	0.048 J	0.05 U	0.032	0.02 U
Zinc (dissolved)	mg/L	-	0.05 U	-	0.02 U	--	-	-	-	-	--	-	-	-	--	-	-	-
Gas																		
Ethane	mg/L	-	-	-	0.00067 J	-	0.001 U	-	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U
Ethene	mg/L	-	-	-	0.00027 J	-	0.001 U	-	-	0.00042 J	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U
Methane	mg/L	-	-	-	9.6	-	0.11	-	-	0.0006 J	-	0.011	-	0.001 U	-	0.009	-	0.0056
Field Parameters																		
Conductivity, field	mS/cm	0.92	0.94	0.761	1.232	-	1.104	-	0.45	0.341	-	0.45	0.287	0.4488	-	0.405	1.32	1.139
Conductivity, field	uS/cm	-	-	-	-	164	-	-	-	-	1800	-	-	-	348	-	-	-
Dissolved oxygen (DO), field	mg/L	0.03	0.06	0.43	0.56	0.29	0.23	-	3.29	1.34	0	0.17	7.98	6.1	0.2	1.22	1.52	0.38
Oxidation reduction potential (ORP), millivolts	s.u.	-122	-95	-74	-127.5	-86.2	-138	-	-7.2	22.1	-166	-140.2	112	152.8	-27	-15	-10.1	100.5
pH, field		7.24	7.2	6.03 ^{abc}	6.97	6.87	7.65	-	7.93	7.98	7.59	7.17	7.33	7.42	7.62	7.36	6.95	7.01
Temperature, sample	Deg C	11.5	12	11.34	19.6	14.5	16.33	-	15.91	14.6	15.72	21.68	14.25	18	14.16	23.04	16.7	14.9
Turbidity, field	NTU	20.3	15.6	4.32	12.1	4.75	38.2	-	2.14	2.71	0.95	5.16	1.12	3.63	3.14	4.71	-	4.22

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-887I	CRA-887M	CRA-887M	CRA-887M	CRA-887M	CRA-889I	CRA-889I	CRA-889I	CRA-889I	CRA-889M	CRA-889M	CRA-889M	CRA-889M	CRA-890(D)	CRA-890(D)	CRA-890(D)	CRA-890(S)
Sample ID:	GW-12602792-051523-DA-035	GW-17358-080218-DR-054	GW-11223073-071921-DA-002	GW-11223073-060222-AC-055	GW-12602792-051523-DA-036	GW-17358-080218-DR-052	GW-11223073-051121-DR-019	GW-11223073-060322-AC-057	GW-12602792-051523-CM-042	GW-17358-080318-DR-068	GW-11223073-051121-DR-020	GW-11223073-060322-AC-056	GW-12602792-051523-BC-040	GW-11223073-051021-DR-002	GW-11223073-060222-AC-049	GW-12602792-051523-CM-039	GW-17358-080218-DR-055
Sample Date:	05/15/2023	08/02/2018	07/19/2021	06/02/2022	05/15/2023	08/02/2018	05/11/2021	06/03/2022	05/15/2023	08/03/2018	05/11/2021	06/03/2022	05/15/2023	05/10/2021	06/02/2022	05/15/2023	08/02/2018
Sample Type:																	
Aquifer	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate (D)	Intermediate (D)	Intermediate (D)	Intermediate (S)
Parameters	Units																
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.001 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (M	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.011
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U					

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-887I	CRA-887M	CRA-887M	CRA-887M	CRA-887M	CRA-889I	CRA-889I	CRA-889I	CRA-889I	CRA-889M	CRA-889M	CRA-889M	CRA-889M	CRA-890I(D)	CRA-890I(D)	CRA-890I(D)	CRA-890I(S)	
Sample ID:	GW-12602792-051523-DA-035	GW-17358-080218-DR-054	GW-11223073-071921-DA-002	GW-11223073-060222-AC-055	GW-12602792-051523-DA-036	GW-17358-080218-DR-052	GW-11223073-051121-DR-019	GW-11223073-060322-AC-057	GW-12602792-051523-CM-042	GW-17358-080318-DR-068	GW-11223073-051121-DR-020	GW-11223073-060322-AC-056	GW-12602792-051523-BC-040	GW-11223073-051021-DR-002	GW-11223073-060222-AC-049	GW-12602792-051523-CM-039	GW-17358-080218-DR-055	
Sample Date:	05/15/2023	08/02/2018	07/19/2021	06/02/2022	05/15/2023	08/02/2018	05/11/2021	06/03/2022	05/15/2023	08/03/2018	05/11/2021	06/03/2022	05/15/2023	05/10/2021	06/02/2022	05/15/2023	08/02/2018	
Sample Type:																		
Aquifer	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate (D)	Intermediate (D)	Intermediate (D)	Intermediate (S)	
Parameters	Units																	
Acenaphthene	mg/L	-	0.0053 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.0051 U	0.005 U	0.00019 U	-	0.005 U	0.00019 U	-	0.0048 U
Acenaphthylene	mg/L	-	0.0053 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.0051 U	0.005 U	0.00019 U	-	0.005 U	0.00019 U	-	0.0048 U
Acetophenone	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.00096 U	-	0.0051 U	0.005 U	0.00093 U	-	0.005 U	0.00096 U	-	0.0048 U
Anthracene	mg/L	-	0.0053 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.0051 U	0.005 U	0.00019 U	-	0.005 U	0.00019 U	-	0.0048 U
Atrazine	mg/L	-	0.0032 U	0.003 U	0.0019 U	-	0.0029 U	0.003 U	0.0019 U	-	0.003 U	0.003 U	0.0019 U	-	0.003 U	0.0019 U	-	0.0029 U
Benzaldehyde	mg/L	-	0.0053 U	0.005 U	0.0019 U	-	0.0048 U	0.005 U	0.0019 U	-	0.0051 U	0.005 U	0.0019 U	-	0.005 U	0.0019 U	-	0.0048 U
Benzo(a)anthracene	mg/L	-	0.0011 U	0.001 U	0.00019 U	-	0.00096 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	0.00095 U
Benzo(a)pyrene	mg/L	-	0.0011 U	0.001 U	0.00019 U	-	0.00096 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	0.00095 U
Benzo(b)fluoranthene	mg/L	-	0.0011 U	0.001 U	0.00019 U	-	0.00096 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	0.00095 U
Benzo(g,h,i)perylene	mg/L	-	0.0011 U	0.001 U	0.00019 U	-	0.00096 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	0.00095 U
Benzo(k)fluoranthene	mg/L	-	0.0011 U	0.001 U	0.00019 U	-	0.00096 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	0.00095 U
Biphenyl (1,1-Biphenyl)	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.00096 U	-	0.0051 U	0.005 U	0.00093 U	-	0.005 U	0.00096 U	-	0.0048 U
bis(2-Chloroethoxy)methane	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.00096 U	-	0.0051 U	0.005 U	0.00093 U	-	0.005 U	0.00096 U	-	0.0048 U
bis(2-Chloroethyl)ether	mg/L	-	0.0011 U	0.001 U	0.00093 U	-	0.00096 U	0.001 U	0.00096 U	-	0.001 U	0.001 U	0.00093 U	-	0.001 U	0.00096 U	-	0.00095 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	0.0053 U	0.005 U	0.0046 U	-	0.0048 U	0.005 U	0.0048 U	-	0.0051 U	0.005 U	0.0046 U	-	0.005 U	0.0048 U	-	0.0048 U
Butyl benzylphthalate (BBP)	mg/L	-	0.0053 U	0.005 U	0.0019 U	-	0.0048 U	0.005 U	0.0019 U	-	0.0051 U	0.005 U	0.0019 U	-	0.005 U	0.0019 U	-	0.0048 U
Caprolactam	mg/L	-	0.011 U	0.01 U	0.0046 U	-	0.0096 U	0.01 U	0.0046 U	-	0.01 U	0.01 U	0.0046 U	-	0.01 U	0.0046 U	-	0.0095 U
Carbazole	mg/L	-	0.011 U	0.01 U	0.00093 U	-	0.0096 U	0.01 U	0.00096 U	-	0.01 U	0.01 U	0.00093 U	-	0.01 U	0.00096 U	-	0.0095 U
Chrysene	mg/L	-	0.0011 U	0.001 U	0.00019 U	-	0.00096 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	0.00095 U
Dibenz(a,h)anthracene	mg/L	-	0.0021 U	0.002 U	0.00019 U	-	0.0019 U	0.002 U	0.00019 U	-	0.002 U	0.002 U	0.00019 U	-	0.002 U	0.00019 U	-	0.0019 U
Dibenzofuran	mg/L	-	0.0042 U	0.004 U	0.00093 U	-	0.0038 U	0.004 U	0.00096 U	-	0.004 U	0.004 U	0.00093 U	-	0.004 U	0.00096 U	-	0.0038 U
Diethyl phthalate	mg/L	-	0.0053 U	0.005 U	0.0046 U	-	0.0048 U	0.005 U	0.0046 U	-	0.0051 U	0.005 U	0.0046 U	-	0.005 U	0.0046 U	-	0.0048 U
Dimethyl phthalate	mg/L	-	0.0053 U	0.005 U	0.0019 U	-	0.0048 U	0.005 U	0.0019 U	-	0.0051 U	0.005 U	0.0019 U	-	0.005 U	0.0019 U	-	0.0048 U
Di-n-butylphthalate (DBP)	mg/L	-	0.0053 U	0.005 U	0.0046 U	-	0.0048 U	0.005 U	0.0046 U	-	0.0051 U	0.005 U	0.0046 U	-	0.005 U	0.0046 U	-	0.0048 U
Di-n-octyl phthalate (DnOP)	mg/L	-	0.0053 U	0.005 U	0.0019 U	-	0.0048 U	0.005 U	0.0019 U	-	0.0051 U	0.005 U	0.0019 U	-	0.005 U	0.0019 U	-	0.0048 U
Fluoranthene	mg/L	-	0.0011 U	0.001 U	0.00019 U	-	0.00096 U	0.001 U	0.00019 U	-	0.001 U	0.001 U	0.00019 U	-	0.001 U	0.00019 U	-	0.00095 U
Fluorene	mg/L	-	0.0053 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.0051 U	0.005 U	0.00019 U	-	0.005 U	0.00019 U	-	0.0048 U
Hexachlorobenzene	mg/L	-	0.00021 U	0.01 U	0.00019 U	-	0.00019 U	0.0002 U	0.00019 U	-	0.0002 U	0.0002 U	0.00019 U	-	0.0002 U	0.00019 U	-	0.00019 U
Hexachlorobutadiene	mg/L	-	0.0011 U	0.001 U	0.00093 U	-	0.00096 U	0.001 U	0.00096 U	-	0.001 U	0.001 U	0.00093 U	-	0.001 U	0.00096 U	-	0.00095 U
Hexachlorocyclopentadiene	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.0093 U	-	0.0051 U	0.005 U	0.0093 U	-	0.005 U	0.0096 U	-	0.0048 U
Hexachloroethane	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.00096 U	-	0.0051 U	0.005 U	0.00093 U	-	0.005 U	0.00096 U	-	0.0048 U
Indeno(1,2,3-cd)pyrene	mg/L	-	0.0021 U	0.002 U	0.00019 U	-	0.0019 U	0.002 U	0.00019 U	-	0.002 U	0.002 U	0.00019 U	-	0.002 U	0.00019 U	-	0.0019 U
Isophorone	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.00096 U	-	0.0051 U	0.005 U	0.00096 U	-	0.005 U	0.00096 U	-	0.0048 U
Naphthalene	mg/L	-	0.0053 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.00014 J	0.005 U	0.00019 U	-	0.005 U	0.00019 U	-	0.0048 U
Nitrobenzene	mg/L	-	0.0032 U	0.003 U	0.00093 U	-	0.0029 U	0.003 U	0.00096 U	-	0.003 U	0.003 U	0.00093 U	-	0.003 U	0.00096 U	-	0.0029 U
N-Nitrosodi-n-propylamine	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.00096 U	-	0.0051 U	0.005 U	0.00093 U	-	0.005 U	0.00096 U	-	0.0048 U
N-Nitrosodiphenylamine	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.00096 U	-	0.0051 U	0.005 U	0.00093 U	-	0.005 U	0.00096 U	-	0.0048 U
Pentachlorophenol	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.0093 U	-	0.0051 U	0.005 U	0.0093 U	-	0.005 U	0.0096 U	-	0.0048 U
Phenanthrene	mg/L	-	0.0021 U	0.002 U	0.00019 U	-	0.0019 U	0.002 U	0.00019 U	-	0.002 U	0.002 U	0.00019 U	-	0.002 U	0.00019 U	-	0.0019 U
Phenol	mg/L	-	0.0053 U	0.005 U	0.00093 U	-	0.0048 U	0.005 U	0.00096 U	-	0.0051 U	0.005 U	0.00093 U	-	0.005 U	0.00096 U	-	0.0048 U
Pyrene	mg/L	-	0.0053 U	0.005 U	0.00019 U	-	0.0048 U	0.005 U	0.00019 U	-	0.0051 U	0.005 U	0.00019 U	-	0.005 U	0.00019 U	-	0.0048 U
Metals																		
Aluminum	mg/L	0.08 J	0.05 U	0.112	0.05 U	0.047 U	0.034 J	0.029	1.7 ^{xab}	0.22	0.05 U	0.218	0.15	1.3 ^{xab}	0.188	0.44	0.15 J	0.05 U
Aluminum (dissolved)	mg/L	--	-	-	-	--	-	-	0.46 ^{xab}	--	-	-	0.05 U	--	0.126	0.041 J	--	-
Antimony	mg/L	0.0075 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.005 U	0.002 U	0.0075 U	0.002 U
Antimony (dissolved)	mg/L	--	-	-	-	--	-	-	0.002 U	--	-	-	0.002 U	--	0.005 U	0.002 U	--	-
Arsenic	mg/L	0.0041 U	0.005 U	0.002 U	0.005 U	0.0041 U	0.0093	0.003	0.0027 J	0.0041 U	0.0013 J	0.002	0.0046 J	0.016 ^{abc}	0.163 ^{abc}	0.17 ^{abc}	0.05 ^{abc}	0.051 ^{abc}
Arsenic (dissolved)	mg/L	--	-	-	-	--	-	-	0.0013 J	--	-	-	0.004 J	--	0.136 ^{abc}	0.17 ^{abc}	--	-
Barium	mg/L	0.059 J	0.02 J	0.069	0.04	0.043 J	0.094 J	0.085	0.042	0.056 J	0.05 J	0.049	0.031	0.052 J	0.144	0.17	0.16 J	0.39
Barium (dissolved)	mg/L	--	-	-	-	--	-	-	0.033	--	-	-	0.028	--	0.127	0.17	--	-
Beryllium	mg/L	0.0006 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.00074 J	0.0006 U	0.001 U	0.001 U	0.0006 U	0.001 U
Beryllium (dissolved)	mg/L	--	-	-	-	--	-	-	0.001 U	--	-	-	0.001 U	--	0.001 U	0.001 U	--	-
Cadmium	mg/L	0.00045 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.0005 U	0.001 U	0.00045 U	0.001 U
Cadmium (dissolved)	mg/L	--	-	-	-	--	-	-	0.001 U	--	-	-	0.001 U	--	0.0005 U	0.001 U	--	-
Calcium	mg/L	260	89	257	220	220	140	123	76	91	93	94.5	68	78	111	120	110	140
Calcium (dissolved)	mg/L	--	-	-	-	--	-	-	73	--	-	-	65	--	109	120	--	-
Chromium	mg/L	0.00076 U	0.01 U	0.005 U	0.005 U	0.00076 U	0.031 ^c	0.005 U	0.005 U	0.00076 U	0.01 U	0.005 U	0.005 U	0.0026 J	0.005 U	0.005 U	0.00076 U	0.01 U
Chromium (dissolved)	mg/L	--	-	-	-	--	-	-	0.005 U	--	-	-	0.005 U	--	0.005 U	0.005 U	--	-
Cobalt	mg/L	0.00075 U	0.02 U	0.005 U	0.001 U	0.00075 U	0.0011 J	0.005 U	0.00098 J	0.00075 U	0.00089 J	0.005 U	0.0012	0.0039 J	0.005 U	0.00055 J	0.00075 U	0.0028 J
Cobalt (dissolved)	mg/L	--	-	-	-	--	-	-	0.00031 J	--	-	-	0.00093 J	--	0.005 U	0.00044 J	--	-
Copper	mg/L	0.0035 U	0.004 U	0.005 U	0.002 U	0.0035 U	0.0079	0.005 U	0.									

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		CRA-887I	CRA-887M	CRA-887M	CRA-887M	CRA-887M	CRA-889I	CRA-889I	CRA-889I	CRA-889I	CRA-889M	CRA-889M	CRA-889M	CRA-889M	CRA-890I(D)	CRA-890I(D)	CRA-890I(D)	CRA-890I(S)
Sample ID:		GW-12602792-051523-DA-035	GW-17358-080218-DR-054	GW-11223073-071921-DA-002	GW-11223073-060222-AC-055	GW-12602792-051523-DA-036	GW-17358-080218-DR-052	GW-11223073-051121-DR-019	GW-11223073-060322-AC-057	GW-12602792-051523-CM-042	GW-17358-080318-DR-068	GW-11223073-051121-DR-020	GW-11223073-060322-AC-056	GW-12602792-051523-BC-040	GW-11223073-051021-DR-002	GW-11223073-060222-AC-049	GW-12602792-051523-CM-039	GW-17358-080218-DR-055
Sample Date:		05/15/2023	08/02/2018	07/19/2021	06/02/2022	05/15/2023	08/02/2018	05/11/2021	06/03/2022	05/15/2023	08/03/2018	05/11/2021	06/03/2022	05/15/2023	05/10/2021	06/02/2022	05/15/2023	08/02/2018
Sample Type:																		
Aquifer		Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Intermediate (D)	Intermediate (D)	Intermediate (D)	Intermediate (S)
Parameters	Units																	
Potassium	mg/L	1.7 J	1.2	1.78	1.9	2 J	1.5	1.46	1.5	2.1 J	1.3	2.06	2.5	6.5	1.98	1.8	2 J	5.3
Potassium (dissolved)	mg/L	--	-	-	-	--	-	-	1.2	--	-	-	2.4	--	1.96	1.7	--	-
Selenium	mg/L	0.006 U	0.005 U	0.005 U	0.0023 J	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.0039 J	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.006 U	0.005 U
Selenium (dissolved)	mg/L	--	-	-	-	--	-	-	0.005 U	--	-	-	0.005 U	--	0.005 U	0.005 U	--	-
Silver	mg/L	0.00062 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0005 U	0.001 U	0.00062 U	0.0002 U
Silver (dissolved)	mg/L	--	-	-	-	--	-	-	0.001 U	--	-	-	0.001 U	--	0.0005 U	0.001 U	--	-
Sodium	mg/L	61	3.6	54.5	39	35	81	50.6	11 B	16	14	8.23	9.9 B	25	49.2	56	43	260 ^a
Sodium (dissolved)	mg/L	--	-	-	-	--	-	-	9.7 B	--	-	-	7.6 B	--	47	55	--	-
Thallium	mg/L	0.0027 U	0.002 U	0.002 U	0.001 U	0.0034 J ^{xyzb}	0.002 U	0.002 U	0.00067 J	0.0027 U	0.002 U	0.002 U	0.0004 J	0.0027 U	0.002 U	0.001 U	0.0027 U	0.002 U
Thallium (dissolved)	mg/L	--	-	-	-	--	-	-	0.001 U	--	-	-	0.00065 J	--	0.002 U	0.001 U	--	-
Vanadium	mg/L	0.0056 U	0.004 U	0.005 U	0.005 U	0.0056 U	0.00085 J	0.005 U	0.0045 J	0.0056 U	0.0013 J	0.005 U	0.005 U	0.0056 U	0.005 U	0.0014 J	0.0056 U	0.002 J
Vanadium (dissolved)	mg/L	--	-	-	-	--	-	-	0.0015 J	--	-	-	0.005 U	--	0.005 U	0.005 U	--	-
Zinc	mg/L	0.023 U	0.05 U	0.005 U	0.02 U	0.023 U	0.05 U	0.005 U	0.02 U	0.023 U	0.05 U	0.005	0.02 U	0.023 U	0.005 U	0.02 U	0.023 U	0.05 U
Zinc (dissolved)	mg/L	--	-	-	-	--	-	-	0.025	--	-	-	0.02 U	--	0.005 U	0.02 U	--	-
Gas																		
Ethane	mg/L	-	0.001 U	-	0.001 U	-	0.001 U	-	0.0003 J	-	-	-	0.001 U	-	-	0.00082 J	-	0.001 U
Ethene	mg/L	-	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	-	-	-	0.001 U	-	-	0.00044 J	-	0.001 U
Methane	mg/L	-	0.001 U	-	0.001 U	-	0.014	-	0.046	-	-	-	0.02	-	-	21	-	7.4
Field Parameters																		
Conductivity, field	mS/cm	-	0.469	1.49	1.153	-	1.18	0.964	0.392	-	0.72	0.555	0.3825	-	0.88	0.883	-	2.03
Conductivity, field	uS/cm	175	-	-	-	147	-	-	-	494	-	-	-	495	-	-	873	-
Dissolved oxygen (DO), field	mg/L	0.2	1.54	1.19	2.42	0.41	0.11	0.5	0.83	0	1.46	1.58	0.64	0.8	0.59	0.47	0	0.11
Oxidation reduction potential (ORP), millivolts		69	151.2	114.1	161.1	78	-61.5	-31	82.8	-67	-76	-50	-234.7	-176	-79	-83.6	-129	-62
pH, field	s.u.	7.11	7.36	6.88	6.88	7.12	7.39	7.51	7.56	7.35	7.42	7.18	7.22	7.22	7.39	6.49 ^{abc}	6.51	6.9
Temperature, sample	Deg C	14.8	22.3	17.7	14.1	16.61	16.9	11.61	14.7	15.86	22.13	12.91	18	23.85	11.8	15.7	15.58	18.7
Turbidity, field	NTU	3.88	2.2	-	1.96	3.31	4.49	2.36	66	1.29	5.02	4.01	778	3.73	23.4	7.86	4.42	4.12

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-890I(S)	CRA-890I(S)	CRA-890I(S)	CRA-962M	CRA-962M	CRA-962M	CRA-974M	CRA-974M	CRA-974M	CRA-974M	CRA-974M	GHD-322ML	GHD-322ML	GHD-322ML	GHD-604I	GHD-604I	GHD-604I	
Sample ID:	GW-11223073-051021-DR-001	GW-11223073-060222-AC-050	GW-12602792-051523-CM-026	GW-17358-083018-DR-105	GW-11223073-051021-DR-003	GW-12602792-051523-DA-032	GW-17358-073018-DR-004	GW-17358-052120-DR-027	GW-11223073-051121-DR-015	WG-11223073-052622-LK-006	GW-12602792-051723-LK-061	GW-11223073-051021-DR-007	GW-11223073-052722-AC-012	GW-12602792-051623-CM-053	GW-11223073-051121-DR-021	GW-11223073-051121-DR-022	WG-11223073-052722-NL-008	
Sample Date:	05/10/2021	06/02/2022	05/15/2023	08/30/2018	05/10/2021	05/15/2023	07/30/2018	05/21/2020	05/11/2021	05/26/2022	05/17/2023	05/10/2021	05/27/2022	05/16/2023	05/11/2021	05/11/2021	05/27/2022	
Sample Type:																Duplicate		
Aquifer	Intermediate (S)	Intermediate (S)	Intermediate (S)	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	
Parameters	Units																	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00054 J	
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.002 U	
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
2-Butanone (Methyl ethyl ketone) (V	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Carbon disulfide	mg/L	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.001 U	
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001	0.001	0.001 U	
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U								

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-890I(S)	CRA-890I(S)	CRA-890I(S)	CRA-962M	CRA-962M	CRA-962M	CRA-974M	CRA-974M	CRA-974M	CRA-974M	CRA-974M	GHD-322ML	GHD-322ML	GHD-322ML	GHD-604I	GHD-604I	GHD-604I	
Sample ID:	GW-11223073-051021-DR-001	GW-11223073-060222-AC-050	GW-12602792-051523-CM-026	GW-17358-083018-DR-105	GW-11223073-051021-DR-003	GW-12602792-051523-DA-032	GW-17358-073018-DR-004	GW-17358-052120-DR-027	GW-11223073-051121-DR-015	WG-11223073-052622-LK-006	GW-12602792-051723-LK-061	GW-11223073-051021-DR-007	GW-11223073-052722-AC-012	GW-12602792-051623-CM-053	GW-11223073-051121-DR-021	GW-11223073-051121-DR-022 Duplicate	WG-11223073-052722-NL-008	
Sample Date:	05/10/2021	06/02/2022	05/15/2023	08/30/2018	05/10/2021	05/15/2023	07/30/2018	05/21/2020	05/11/2021	05/26/2022	05/17/2023	05/10/2021	05/27/2022	05/16/2023	05/11/2021	05/11/2021	05/27/2022	
Sample Type:																		
Aquifer	Intermediate (S)	Intermediate (S)	Intermediate (S)	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	
Parameters	Units																	
Acenaphthene	mg/L	0.005 U	0.00019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.0002 U	-	0.005 U	0.00019 U	-	0.005 U	0.00024 U	
Acenaphthylene	mg/L	0.005 U	0.00019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.0002 U	-	0.005 U	0.00019 U	-	0.005 U	0.00024 U	
Acetophenone	mg/L	0.005 U	0.00096 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	0.005 U	0.0012 U	
Anthracene	mg/L	0.005 U	0.00019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.0002 U	-	0.005 U	0.00019 U	-	0.005 U	0.00024 U	
Atrazine	mg/L	0.003 U	0.0019 U	-	0.0032 U	0.003 U	-	0.0029 U	0.0032 U	0.003 U	0.002 U	-	0.003 U	0.0019 U	-	0.003 U	0.0024 U	
Benzaldehyde	mg/L	0.005 U	0.0019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.002 U	-	0.005 U	0.0019 U	-	0.005 U	0.0024 U	
Benzo(a)anthracene	mg/L	0.001 U	0.00019 U	-	0.0011 U	0.001 U	-	0.00096 U	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.00019 U	-	0.001 U	0.00024 U	
Benzo(a)pyrene	mg/L	0.001 U	0.00019 U	-	0.0011 U	0.001 U	-	0.00096 U	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.00019 U	-	0.001 U	0.00024 U	
Benzo(b)fluoranthene	mg/L	0.001 U	0.00019 U	-	0.0011 U	0.001 U	-	0.00096 U	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.00019 U	-	0.001 U	0.00024 U	
Benzo(g,h,i)perylene	mg/L	0.001 U	0.00019 U	-	0.0011 U	0.001 U	-	0.00096 U	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.00019 U	-	0.001 U	0.00024 U	
Benzo(k)fluoranthene	mg/L	0.001 U	0.00019 U	-	0.0011 U	0.001 U	-	0.00096 U	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.00019 U	-	0.001 U	0.00024 U	
Biphenyl (1,1-Biphenyl)	mg/L	0.005 U	0.00096 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	0.005 U	0.0012 U	
bis(2-Chloroethoxy)methane	mg/L	0.005 U	0.00096 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	0.005 U	0.0012 U	
bis(2-Chloroethyl)ether	mg/L	0.001 U	0.00096 U	-	0.0011 U	0.001 U	-	0.00096 U	0.0011 U	0.001 U	0.001 U	-	0.001 U	0.00096 U	-	0.001 U	0.0012 U	
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.005 U	0.0048 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.005 U	-	0.005 U	0.0048 U	-	0.005 U	0.006 U	
Butyl benzylphthalate (BBP)	mg/L	0.005 U	0.0019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.002 U	-	0.005 U	0.0019 U	-	0.005 U	0.0024 U	
Caprolactam	mg/L	0.01 U	0.0048 U	-	0.011 U	0.01 U	-	0.0096 U	0.011 U	0.01 U	0.005 U	-	0.01 U	0.0048 U	-	0.01 U	0.0014 JB	
Carbazole	mg/L	0.01 U	0.00096 U	-	0.011 U	0.01 U	-	0.0096 U	0.011 U	0.01 U	0.001 U	-	0.01 U	0.00096 U	-	0.01 U	0.0012 U	
Chrysene	mg/L	0.001 U	0.00019 U	-	0.0011 U	0.001 U	-	0.00096 U	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.00019 U	-	0.001 U	0.00024 U	
Dibenz(a,h)anthracene	mg/L	0.002 U	0.00019 U	-	0.0021 U	0.002 U	-	0.0021 U	0.0021 U	0.002 U	0.0002 U	-	0.002 U	0.00019 U	-	0.002 U	0.00024 U	
Dibenzofuran	mg/L	0.004 U	0.00096 U	-	0.0043 U	0.004 U	-	0.0038 U	0.0042 U	0.004 U	0.001 U	-	0.004 U	0.00096 U	-	0.004 U	0.0012 U	
Diethyl phthalate	mg/L	0.005 U	0.0048 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.005 U	-	0.005 U	0.0048 U	-	0.005 U	0.006 U	
Dimethyl phthalate	mg/L	0.005 U	0.0019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.002 U	-	0.005 U	0.0019 U	-	0.005 U	0.0024 U	
Di-n-butylphthalate (DBP)	mg/L	0.005 U	0.0048 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.005 U	-	0.005 U	0.0048 U	-	0.005 U	0.006 U	
Di-n-octyl phthalate (DnOP)	mg/L	0.005 U	0.0019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.002 U	-	0.005 U	0.0019 U	-	0.005 U	0.0024 U	
Fluoranthene	mg/L	0.001 U	0.00019 U	-	0.0011 U	0.001 U	-	0.00096 U	0.0011 U	0.001 U	0.0002 U	-	0.001 U	0.00019 U	-	0.001 U	0.00024 U	
Fluorene	mg/L	0.005 U	0.00019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.0002 U	-	0.005 U	0.00019 U	-	0.005 U	0.00024 U	
Hexachlorobenzene	mg/L	0.0002 U	0.00019 U	-	0.00021 U	0.0002 U	-	0.00019 U	0.00021 U	0.0002 U	0.0002 U	-	0.0002 U	0.00019 U	-	0.0002 U	0.00024 U	
Hexachlorobutadiene	mg/L	0.001 U	0.00096 U	-	0.0011 U	0.001 U	-	0.00096 U	0.0011 U	0.001 U	0.001 U	-	0.001 U	0.00096 U	-	0.001 U	0.0012 U	
Hexachlorocyclopentadiene	mg/L	0.005 U	0.0096 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.01 U	-	0.005 U	0.0096 U	-	0.005 U	0.012 U	
Hexachloroethane	mg/L	0.005 U	0.00096 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	0.005 U	0.0012 U	
Indeno(1,2,3-cd)pyrene	mg/L	0.002 U	0.00019 U	-	0.0021 U	0.002 U	-	0.0019 U	0.0021 U	0.002 U	0.0002 U	-	0.002 U	0.00019 U	-	0.002 U	0.00024 U	
Isophorone	mg/L	0.005 U	0.00096 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	0.005 U	0.0012 U	
Naphthalene	mg/L	0.005 U	0.00019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.0002 U	-	0.005 U	0.00019 U	-	0.005 U	0.00024 U	
Nitrobenzene	mg/L	0.003 U	0.00096 U	-	0.0032 U	0.003 U	-	0.0029 U	0.0032 U	0.003 U	0.001 U	-	0.003 U	0.00096 U	-	0.003 U	0.0012 U	
N-Nitrosodi-n-propylamine	mg/L	0.005 U	0.00096 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	0.005 U	0.0012 U	
N-Nitrosodiphenylamine	mg/L	0.005 U	0.00096 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	0.005 U	0.0012 U	
Pentachlorophenol	mg/L	0.005 U	0.0096 U	-	0.0053 U	0.0096 U	-	0.0048 U	0.0053 U	0.005 U	0.01 U	-	0.005 U	0.0096 U	-	0.005 U	0.012 U	
Phenanthrene	mg/L	0.002 U	0.00019 U	-	0.0021 U	0.002 U	-	0.0019 U	0.0021 U	0.002 U	0.0002 U	-	0.002 U	0.00019 U	-	0.002 U	0.00024 U	
Phenol	mg/L	0.005 U	0.00096 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	0.005 U	0.0012 U	
Pyrene	mg/L	0.005 U	0.00019 U	-	0.0053 U	0.005 U	-	0.0048 U	0.0053 U	0.005 U	0.0002 U	-	0.005 U	0.00019 U	-	0.005 U	0.00024 U	
Metals																		
Aluminum	mg/L	0.01 U	0.05 U	0.047 U	0.042 J	0.075	0.11 J	0.05 U	0.05 U	0.01 U	0.05 U	0.047 U	0.01	0.05 U	0.047 U	0.011	0.012	0.05 U
Aluminum (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.05 U	--	-	-	--	-	-	-
Antimony	mg/L	0.005 U	0.002 U	0.0075 U	0.002 U	0.005 U	0.0075 U	0.002 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.005 U	0.002 U	0.0075 U	0.005 U	0.005 U	0.002 U
Antimony (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.002 U	--	-	-	--	-	-	-
Arsenic	mg/L	0.016 ^{abc}	0.0017 J	0.0047 J	0.005 U	0.002 U	0.0041 U	0.0024 J	0.0013 J	0.002 U	0.0018 J	0.0041 U	0.007	0.0035 J	0.0041 U	0.003	0.002	0.004 J
Arsenic (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.0014 J	-	-	-	--	-	-	-
Barium	mg/L	0.311	0.2	0.19 J	0.031 J	0.037	0.033 J	0.35	0.22	0.291	0.29	0.41	0.036	0.13	0.29	0.059	0.062	0.043
Barium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.29	--	-	-	--	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	0.0006 U	0.00039 J	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.001 U	--	-	-	--	-	-	-
Cadmium	mg/L	0.0005 U	0.001 U	0.00045 U	0.001 U	0.0005 U	0.00045 U	0.001 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.0005 U	0.001 U	0.00045 U	0.0005 U	0.0005 U	0.00034 J
Cadmium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.001 U	--	-	-	--	-	-	-
Calcium	mg/L	152	150	130	85	102	100	140	110	99.6	100	140	47.5	120	140	45.7	44.7	30
Calcium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	100	--	-	-	--	-	-	-
Chromium	mg/L	0.005 U	0.005 U	0.00076 U	0.01 U	0.005 U	0.00076 U	0.01 U	0.01 U	0.005 U	0.005 U	0.00076 U	0.005 U	0.005 U	0.00076 U	0.005 U	0.005 U	0.005 U
Chromium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.005 U	--	-	-	--	-	-	-
Cobalt	mg/L	0.005 U	0.001 U	0.00075 U	0.00022 J	0.005 U	0.00075 U	0.0023 J	0.0024 J	0.005 U	0.0015	0.00075 U	0.005 U	0.0006 J	0.00079 J	0.005 U	0.005 U	0.00059 J
Cobalt (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.0013	--	-	-	--	-	-	-
Copper	mg/L	0.005 U	0.002 U	0.0035 U	0.004 U	0.005 U	0.0035 U	0.004 U	0.004 U	0.005 U	0.002 U	0.0035 U	0.005 U	0.002 U	0.0035 U	0.005 U	0.005 U	0.002 U
Copper (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.002 U	--	-	-	--	-	-	-
Iron	mg/L	20.7 ^{xab}	15 ^{xab}	11 ^{xab}	0.2 U	0.09	0.083 U	6.8 ^{xab}	6.5 ^{xab}	7.55 ^{xab}	6.9 ^{xab}	11 ^{xab}	0.4	3 ^{xab}	12 ^{xab}	0.69	0.72	0.56
Iron (dissolved)	mg/L	-	17 ^{xab}	--	-	-	--	-	-									

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	CRA-890(S)	CRA-890(S)	CRA-890(S)	CRA-962M	CRA-962M	CRA-962M	CRA-974M	CRA-974M	CRA-974M	CRA-974M	CRA-974M	GHD-322ML	GHD-322ML	GHD-322ML	GHD-604I	GHD-604I	GHD-604I	
Sample ID:	GW-11223073-051021-DR-001	GW-11223073-060222-AC-050	GW-12602792-051523-CM-026	GW-17358-083018-DR-105	GW-11223073-051021-DR-003	GW-12602792-051523-DA-032	GW-17358-073018-DR-004	GW-17358-052120-DR-027	GW-11223073-051121-DR-015	WG-11223073-052622-LK-006	GW-12602792-051723-LK-061	GW-11223073-051021-DR-007	GW-11223073-052722-AC-012	GW-12602792-051623-CM-053	GW-11223073-051121-DR-021	GW-11223073-051121-DR-022	WG-11223073-052722-NL-008	
Sample Date:	05/10/2021	06/02/2022	05/15/2023	08/30/2018	05/10/2021	05/15/2023	07/30/2018	05/21/2020	05/11/2021	05/26/2022	05/17/2023	05/10/2021	05/27/2022	05/16/2023	05/11/2021	05/11/2021 Duplicate	05/27/2022	
Sample Type:																		
Aquifer	Intermediate (S)	Intermediate (S)	Intermediate (S)	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	
Parameters	Units																	
Potassium	mg/L	4.05	3	3.5 J	2.2	2.19	4.1 J	13	6.7	4.18	6.1	7.1	1.7	4.8	11	6.31	6	5.2
Potassium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	6.1	--	-	-	--	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.006 U	0.0013 J	0.005 U	0.006 U	0.00095 J	0.005 U	0.005 U	0.0011 J	0.006 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.0011 J
Selenium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.005 U	--	-	-	--	-	-	-
Silver	mg/L	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0005 U	0.00062 U	0.0002 U	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0005 U	0.001 U	0.00062 U	0.0005 U	0.0005 U	0.000062 J
Silver (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.001 U	--	-	-	--	-	-	-
Sodium	mg/L	134	64	72	8.6	40.6	64	310 ^a	110	127	77	83	24.3	64	82	213	205	150
Sodium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	78	--	-	-	--	-	-	-
Thallium	mg/L	0.002 U	0.001 U	0.0027 U	0.002 U	0.002 U	0.0027 U	0.002 U	0.002 U	0.002 U	0.00027 J	0.0042 J ^{xabc}	0.002 U	0.001 U	0.0027 U	0.002 U	0.002 U	0.00093 J
Thallium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.001 U	--	-	-	--	-	-	-
Vanadium	mg/L	0.005 U	0.005 U	0.0056 U	0.004 U	0.005 U	0.0056 U	0.004 U	0.004 U	0.005 U	0.005 U	0.0056 U	0.005 U	0.0022 J	0.0056 U	0.005 U	0.005 U	0.005 U
Vanadium (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.005 U	--	-	-	--	-	-	-
Zinc	mg/L	0.005 U	0.02 U	0.023 U	0.019 J	0.005 U	0.023 U	0.05 U	0.05 U	0.005 U	0.02 U	0.023 U	0.005 U	0.02 U	0.023 U	0.005 U	0.005 U	0.02 U
Zinc (dissolved)	mg/L	-	-	--	-	-	--	-	-	-	0.02 U	--	-	-	--	-	-	-
Gas																		
Ethane	mg/L	-	0.00056 J	-	0.001 U	-	-	0.001 U	-	-	0.005 B	-	-	0.00084 J	-	-	-	0.00034 J
Ethene	mg/L	-	0.001 U	-	0.001 U	-	-	0.001 U	-	-	0.028	-	-	0.001 U	-	-	-	0.001 U
Methane	mg/L	-	4.9	-	0.001 U	-	-	9.5	-	-	6.5	-	-	17	-	-	-	0.042
Field Parameters																		
Conductivity, field	mS/cm	1.41	1.397	-	0.529	0.591	-	2.31	1.29	1.11	0.78	-	0.35	0.859	-	1.06	1.06	0.82
Conductivity, field	uS/cm	-	-	1070	-	-	102	-	-	-	-	120	-	-	1100	-	-	-
Dissolved oxygen (DO), field	mg/L	0.88	0.49	0	2.19	3.09	3.06	0.06	0.23	0.04	0.59	0	0.03	0.64	0	0.58	0.58	0.52
Oxidation reduction potential (ORP), millivolts		-147	-75.1	-133	228	63	43	-144.4	-91	-175.5	-74.6	-134	-172.6	-104.4	-122	-132	-132	-115.2
pH, field	s.u.	7.36	6.86	6.87	6.99	7.37	7.51	6.97	7.15	7.16	7.06	7.12	7.57	6.78	6.86	7.47	7.47	7.99
Temperature, sample	Deg C	11.68	15.2	12.63	20.89	13.3	13.3	17.62	10.9	11.03	12	12.7	11.35	16.7	17.88	16.79	16.79	13.5
Turbidity, field	NTU	3.77	3.9	0.98	3.28	4.42	4.86	4.52	3.68	4.67	22	4.55	2.07	2.07	4.97	0.86	0.86	6.03

Table 5

Sample Location:	GHD-604I	GHD-604I	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-984M	GHD-984M	GHD-984M	GHD-984M	GHD-1005M	GHD-1005M	GHD-1005M
Sample ID:	WG-11223073-052722-NL-010	GW-12602792-051523-DA-028	GW-17358-080318-DR-062	GW-17358-080318-DR-063	GW-17358-102120-DR-007	GW-11223073-051321-DR-038	GW-11223073-051321-DR-039	GW-11223073-060122-AC-027	GW-11223073-060122-AC-028	GW-12602792-051123-LK-007		GW-17358-080118-DR-032	GW-11223073-051121-DR-016	GW-11223073-053122-AC-024	GW-12602792-051623-DA-043	GW-17358-073018-DR-008	GW-17358-052120-DR-025	GW-11223073-051021-DR-013
Sample Date:	05/27/2022	05/15/2023	08/03/2018	08/03/2018	10/21/2020	05/13/2021	05/13/2021	06/01/2022	06/01/2022	05/11/2023		08/01/2018	05/11/2021	05/31/2022	05/16/2023	07/30/2018	05/21/2020	05/10/2021
Sample Type:	Duplicate			Duplicate			Duplicate		Duplicate									
Aquifer	Intermediate	Intermediate	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Parameters	Units																	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.0007 J	0.0006 J	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCl	mg/L	0.002 U	0.002 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.13 U	0.1 U	0.13 U	0.0017 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (N	mg/L	0.01 U	0.01 U	2 U	2 U	1.7 U	0.2 U	0.2 U	0.67 U	0.5 U	0.63 U	0.017 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U	2 U	2 U	1.7 U	0.2 U	0.2 U	0.67 U	0.5 U	0.63 U	0.017 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.01 U	2 U	2 U	1.7 U	0.2 U	0.2 U	0.67 U	0.5 U	0.63 U	0.017 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U	2 U	2 U	1.7 U	0.2 U	0.2 U	0.67 U	0.5 U	0.63 U	0.017 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.001 U	0.001 U	1 U	1 U	0.83 U	0.1 U	0.1 U	0.067 U	0.05 U	0.063 U	0.0084 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.00053 J	0.001 U	0.059 J	0.049 J	0.055 J	0.02 U	0.02	0.045 J	0.092 ^{ab}	0.063 U	0.00029 J	0.001 U	0.001 U	0.00057 J	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylenes	mg/L	-	-	-	-	-	0.04 U	0.04 U	-	-	-	-	0.002 U	-	-	-	-	0.002 U
Methyl acetate	mg/L	0.01 U	0.01 U	2 U	2 U	1.7 U	0.02 U	0.02 U	0.67 U	0.5 U	0.63 U	0.017 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.001 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.1 U	0.1 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Methylene chloride	mg/L	0.014 ^{ab}	0.005 U	1 U	1 U	0.83 U	0.1 U	0.1 U	0.33 U	0.25 U	0.31 U	0.0084 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
o-Xylene	mg/L	-	-	-	-	-	0.02 U	0.02 U	-	-	-	-	0.001 U	-	-	-	-	0.001 U
Styrene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	5.6 ^{abc}	5.3 ^{abc}	3.2 ^{abc}	1.48 ^{abc}	1.5 ^{abc}	2.4 ^{abc}	1.9 ^{abc}	1.5 ^{abc}	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Total target chlorinated VOCs	mg/L	-	-	5.735	5.425	-	-	-	-	-	-	0.02929	-	-	-	-	0.00011	-
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.076 J ^{ab}	0.076 J ^{ab}	0.04 J ^{ab}	0.02 U	0.02 U	0.037 J ^{ab}	0.064 ^{ab}	0.063 U	0.0029 ^{ab}	0.03 ^{ab}	0.023 ^{ab}	0.014 ^{ab}	0.001 U	0.00011 J	0.001 U
Trichlorofluoromethane (CFC-111)	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (CFC-113)	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.2 U	0.2 U	0.17 U	0.02 U	0.02 U	0.067 U	0.05 U	0.063 U	0.0017 U	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.4 U	0.4 U	0.33 U	-	-	0.13 U	0.1 U	0.13 U	0.0033 U	-	0.002 U	0.002 U	0.002 U	0.002 U	-
Semi-Volatile Organic Compounds (SVOCs)																		
2,2'-Oxybis(1-chloropropane) (bis(2-	mg/L	0.00096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	-	0.0049 U	0.005 U	0.00093 U	-	0.0049 U	0.0051 U	0.005 U
2,4,5-Trichlorophenol	mg/L	0.0048 U	-	0.0049 U	0.0048 U	-	-	-	-	-	-	0.0049 U	0.005 U	0.0046 U	-	0.0049 U	0.0051 U	0.005 U
2,4,6-Trichlorophenol	mg/L	0.0048 U	-	0.0039 U	0.0038 U	-	-	-	-	-	-	0.0039 U	0.004 U	0.0046 U	-	0.0039 U	0.004 U	0.004 U
2,4-Dichlorophenol	mg/L	0.0019 U	-	0.0098 U	0.0095 U	-	-	-	-	-	-	0.0097 U	0.01 U	0.0019 U	-	0.0098 U	0.01 U	0.01 U
2,4-Dimethylphenol	mg/L	0.0019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	-	0.0049 U	0.005 U	0.0019 U	-	0.0049 U	0.0051 U	0.005 U
2,4-Dinitrophenol	mg/L	0.00																

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-604I	GHD-604I	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-984M	GHD-984M	GHD-984M	GHD-984M	GHD-1005M	GHD-1005M	GHD-1005M
Sample ID:	WG-11223073-052722-NL-010	GW-12602792-051523-DA-028	GW-17358-080318-DR-062	GW-17358-080318-DR-063	GW-17358-102120-DR-007	GW-11223073-051321-DR-038	GW-11223073-051321-DR-039	GW-11223073-060122-AC-027	GW-11223073-060122-AC-028	GW-12602792-051123-LK-007	GW-17358-080118-DR-032	GW-11223073-051121-DR-016	GW-11223073-053122-AC-024	GW-12602792-051623-DA-043	GW-17358-073018-DR-008	GW-17358-052120-DR-025	GW-11223073-051021-DR-013	
Sample Date:	05/27/2022	05/15/2023	08/03/2018	08/03/2018	10/21/2020	05/13/2021	05/13/2021	06/01/2022	06/01/2022	05/11/2023	08/01/2018	05/11/2021	05/31/2022	05/16/2023	07/30/2018	05/21/2020	05/10/2021	
Sample Type:	Duplicate			Duplicate			Duplicate		Duplicate									
Aquifer	Intermediate	Intermediate	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	
Parameters	Units																	
Acenaphthene	mg/L	0.00019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00019 U	-	0.0049 U	0.0051 U	0.005 U	
Acenaphthylene	mg/L	0.00019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00019 U	-	0.0049 U	0.0051 U	0.005 U	
Acetophenone	mg/L	0.00096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00093 U	-	0.0049 U	0.0051 U	0.005 U	
Anthracene	mg/L	0.00019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00019 U	-	0.0049 U	0.0051 U	0.005 U	
Atrazine	mg/L	0.0019 U	-	0.0029 U	0.0029 U	-	-	-	-	-	0.0029 U	0.003 U	0.0019 U	-	0.0029 U	0.003 U	0.003 U	
Benzaldehyde	mg/L	0.0019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.0019 U	-	0.0049 U	0.0051 U	0.005 U	
Benzo(a)anthracene	mg/L	0.00019 U	-	0.00098 U	0.00095 U	-	-	-	-	-	0.00097 U	0.001 U	0.00019 U	-	0.00098 U	0.001 U	0.001 U	
Benzo(a)pyrene	mg/L	0.00019 U	-	0.00098 U	0.00095 U	-	-	-	-	-	0.00097 U	0.001 U	0.00019 U	-	0.00098 U	0.001 U	0.001 U	
Benzo(b)fluoranthene	mg/L	0.00019 U	-	0.00098 U	0.00095 U	-	-	-	-	-	0.00097 U	0.001 U	0.00019 U	-	0.00098 U	0.001 U	0.001 U	
Benzo(g,h,i)perylene	mg/L	0.00019 U	-	0.00098 U	0.00095 U	-	-	-	-	-	0.00097 U	0.001 U	0.00019 U	-	0.00098 U	0.001 U	0.001 U	
Benzo(k)fluoranthene	mg/L	0.00019 U	-	0.00098 U	0.00095 U	-	-	-	-	-	0.00097 U	0.001 U	0.00019 U	-	0.00098 U	0.001 U	0.001 U	
Biphenyl (1,1-Biphenyl)	mg/L	0.00096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00093 U	-	0.0049 U	0.0051 U	0.005 U	
bis(2-Chloroethoxy)methane	mg/L	0.00096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00093 U	-	0.0049 U	0.0051 U	0.005 U	
bis(2-Chloroethyl)ether	mg/L	0.00096 U	-	0.00098 U	0.00095 U	-	-	-	-	-	0.00097 U	0.001 U	0.00093 U	-	0.00098 U	0.001 U	0.001 U	
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.0048 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.0046 U	-	0.0049 U	0.0051 U	0.005 U	
Butyl benzylphthalate (BBP)	mg/L	0.0019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.0019 U	-	0.0049 U	0.0051 U	0.005 U	
Caprolactam	mg/L	0.0038 JB	-	0.00035 J	0.0095 U	-	-	-	-	-	0.0097 U	0.01 U	0.0036 JB	-	0.0098 U	0.01 U	0.01 U	
Carbazole	mg/L	0.00096 U	-	0.0098 U	0.0095 U	-	-	-	-	-	0.0097 U	0.01 U	0.00093 U	-	0.0098 U	0.01 U	0.01 U	
Chrysene	mg/L	0.00019 U	-	0.00098 U	0.00095 U	-	-	-	-	-	0.00097 U	0.001 U	0.00019 U	-	0.00098 U	0.001 U	0.001 U	
Dibenz(a,h)anthracene	mg/L	0.00019 U	-	0.002 U	0.0019 U	-	-	-	-	-	0.0019 U	0.002 U	0.00019 U	-	0.002 U	0.002 U	0.002 U	
Dibenzofuran	mg/L	0.00096 U	-	0.0039 U	0.0038 U	-	-	-	-	-	0.0039 U	0.004 U	0.00093 U	-	0.0039 U	0.004 U	0.004 U	
Diethyl phthalate	mg/L	0.0048 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.0046 U	-	0.0049 U	0.0051 U	0.005 U	
Dimethyl phthalate	mg/L	0.0019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.0019 U	-	0.0049 U	0.0051 U	0.005 U	
Di-n-butylphthalate (DBP)	mg/L	0.0048 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.0046 U	-	0.0049 U	0.0051 U	0.005 U	
Di-n-octyl phthalate (DnOP)	mg/L	0.0019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.0019 U	-	0.0049 U	0.0051 U	0.005 U	
Fluoranthene	mg/L	0.00019 U	-	0.00098 U	0.00095 U	-	-	-	-	-	0.00097 U	0.001 U	0.00019 U	-	0.00098 U	0.001 U	0.001 U	
Fluorene	mg/L	0.00019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00019 U	-	0.0049 U	0.0051 U	0.005 U	
Hexachlorobenzene	mg/L	0.00019 U	-	0.0002 U	0.00019 U	-	-	-	-	-	0.00019 U	0.0002 U	0.00019 U	-	0.0002 U	0.0002 U	0.0002 U	
Hexachlorobutadiene	mg/L	0.00096 U	-	0.00098 U	0.00095 U	-	-	-	-	-	0.00097 U	0.001 U	0.00093 U	-	0.00098 U	0.001 U	0.001 U	
Hexachlorocyclopentadiene	mg/L	0.0096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.0093 U	-	0.0049 U	0.0051 U	0.005 U	
Hexachloroethane	mg/L	0.00096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00093 U	-	0.0049 U	0.0051 U	0.005 U	
Indeno(1,2,3-cd)pyrene	mg/L	0.00019 U	-	0.002 U	0.0019 U	-	-	-	-	-	0.0019 U	0.002 U	0.00019 U	-	0.002 U	0.002 U	0.002 U	
Isophorone	mg/L	0.00096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00093 U	-	0.0049 U	0.0051 U	0.005 U	
Naphthalene	mg/L	0.00019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00019 U	-	0.0049 U	0.0051 U	0.005 U	
Nitrobenzene	mg/L	0.00096 U	-	0.0029 U	0.0029 U	-	-	-	-	-	0.0029 U	0.003 U	0.00093 U	-	0.0029 U	0.003 U	0.003 U	
N-Nitrosodi-n-propylamine	mg/L	0.00096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00093 U	-	0.0049 U	0.0051 U	0.005 U	
N-Nitrosodiphenylamine	mg/L	0.00096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00093 U	-	0.0049 U	0.0051 U	0.005 U	
Pentachlorophenol	mg/L	0.0096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.0093 U	-	0.0049 U	0.0051 U	0.005 U	
Phenanthrene	mg/L	0.00019 U	-	0.002 U	0.0019 U	-	-	-	-	-	0.0019 U	0.002 U	0.00019 U	-	0.002 U	0.002 U	0.002 U	
Phenol	mg/L	0.00096 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00093 U	-	0.0049 U	0.0051 U	0.005 U	
Pyrene	mg/L	0.00019 U	-	0.0049 U	0.0048 U	-	-	-	-	-	0.0049 U	0.005 U	0.00019 U	-	0.0049 U	0.0051 U	0.005 U	
Metals																		
Aluminum	mg/L	0.048 J	0.052 J	0.036 J	0.05 U	-	-	-	0.05 U	0.05 U	-	0.05 U	0.08	0.082	0.047 U	0.05 U	0.73 ^{xab}	0.036
Aluminum (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	--	-	-	0.087	-
Antimony	mg/L	0.002 U	0.0075 U	0.0011 J	0.00088 J	-	-	-	0.00061 J	0.002 U	-	0.002 U	0.005 U	0.002 U	0.0075 U	0.002 U	0.002 U	0.005 U
Antimony (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002 U	-
Arsenic	mg/L	0.0043 J	0.0041 U	0.0028 J	0.0024 J	-	-	-	0.005 U	0.005 U	-	0.005 U	0.002	0.0028 J	0.0093 J	0.006	0.0032 J	0.007
Arsenic (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0026 J	-
Barium	mg/L	0.047	0.054 J	0.093 J	0.078 J	-	-	-	0.08	0.07	-	0.041 J	0.073	0.052	0.054 J	0.031 J	0.026 J	0.026
Barium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	0.022 J	-
Beryllium	mg/L	0.001 U	0.0006 U	0.001 U	0.001 U	-	-	-	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	0.001 U	-
Cadmium	mg/L	0.001 U	0.00045 U	0.001 U	0.001 U	-	-	-	0.001 U	0.001 U	-	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.001 U	0.0005 U
Cadmium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	0.001 U	-
Calcium	mg/L	33	39	76	64	-	-	-	110	99	-	130	139	99	92	90	98	83.2
Calcium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	94	-
Chromium	mg/L	0.005 U	0.00076 U	0.01 U	0.01 U	-	-	-	0.005 U	0.005 U	-	0.01 U	0.005 U	0.005 U	0.00076 U	0.01 U	0.01 U	0.005 U
Chromium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	0.01 U	-
Cobalt	mg/L	0.00045 J	0.00075 U	0.00097 J	0.00078 J	-	-	-	0.0021	0.0017	-	0.0006 J	0.005 U	0.0018	0.0017 J	0.00033 J	0.00043 J	0.005 U
Cobalt (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	0.02 U	-
Copper	mg/L	0.002 U	0.0035 U	0.0086	0.0072	-	-	-	0.0043	0.0038	-	0.002 J	0.005 U	0.002 U	0.0035 U	0.004 U	0.003 J	0.005 U
Copper (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	0.004 U	-
Iron	mg/L	0.77	0.87	0.12 J	0.2 U	-	-	-	0.1 U	0.1 U	-	0.2 U	0.42	0.5	1.3 ^{xab}	0.51	1 ^{xab}	0.62
Iron (dissolved)	mg/L	0.36	--	-	-	-	-	-	0.1 U	0.1 U	-	-	-	0.81	--	-	0.18 J	-
Lead	mg/L	0.001 U	0.0028 U	0.003 U	0.003 U	-	-	-	0.001 U	0.001 U	-	0.003 U	0.003 U	0.00072 J	0.0028 U	0.003 U	0.00056 J	0.003 U
Lead (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	0.003 U	-
Magnesium	mg/L	5.2	6.1	11	8.9	-	-	-	18	16	-	19	26.3	18	17	12	17	16
Magnesium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	16	-
Manganese	mg/L	0.12	0.16	0.045 J	0.037 J	-	-	-	0.49	0.36	-	0.3	0.77 ^{xab}	0.46	0.39	0.18	0.23	0.208
Manganese (dissolved)	mg/L	0.096	--	0.035	0.037	-	-	-	0.28	0.33	-	0.27	-	0.45	--	0.21	0.13	-
Mercury	mg/L	0.0002 U	0.00013 U	0.0002 U	0.0002 U	-	-</											

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:		GHD-604I	GHD-604I	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-859M	GHD-984M	GHD-984M	GHD-984M	GHD-984M	GHD-1005M	GHD-1005M	GHD-1005M
Sample ID:		WG-11223073-052722-NL-010	GW-12602792-051523-DA-028	GW-17358-080318-DR-062	GW-17358-080318-DR-063	GW-17358-102120-DR-007	GW-11223073-051321-DR-038	GW-11223073-051321-DR-039	GW-11223073-060122-AC-027	GW-11223073-060122-AC-028	GW-12602792-051123-LK-007	GW-17358-080118-DR-032	GW-11223073-051121-DR-016	GW-11223073-053122-AC-024	GW-12602792-051623-DA-043	GW-17358-073018-DR-008	GW-17358-052120-DR-025	GW-11223073-051021-DR-013
Sample Date:		05/27/2022	05/15/2023	08/03/2018	08/03/2018	10/21/2020	05/13/2021	05/13/2021	06/01/2022	06/01/2022	05/11/2023	08/01/2018	05/11/2021	05/31/2022	05/16/2023	07/30/2018	05/21/2020	05/10/2021
Sample Type:		Duplicate			Duplicate			Duplicate		Duplicate								
Aquifer		Intermediate	Intermediate	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Parameters	Units																	
Potassium	mg/L	5.7	5.7	7.5	6.2	-	-	-	8.3	6.9	-	2.3	7.82	6.9	8.1	4.6	3.3	3.17
Potassium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	3.2	-
Selenium	mg/L	0.005 U	0.006 U	0.0014 J	0.00096 J	-	-	-	0.0021 J	0.002 J	-	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	0.005 U	-
Silver	mg/L	0.001 U	0.00062 U	0.0002 U	0.0002 U	-	-	-	0.001 U	0.001 U	-	0.0002 U	0.0005 U	0.001 U	0.00062 U	0.0002 U	0.0002 U	0.0005 U
Silver (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	0.0002 U	-
Sodium	mg/L	160	150	430 ^{ab}	360 ^{ab}	-	-	-	88	75	-	130	222	130	120	25	14	13.8
Sodium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	13	-
Thallium	mg/L	0.00036 J	0.0027 U	0.0005 J	0.00041 J	-	-	-	0.00041 J	0.00037 J	-	0.002 U	0.002 U	0.001 U	0.0027 U	0.002 U	0.002 U	0.002 U
Thallium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	0.002 U	-
Vanadium	mg/L	0.005 U	0.0056 U	0.00094 J	0.00098 J	-	-	-	0.005 U	0.005 U	-	0.00099 J	0.005 U	0.005 U	0.0056 U	0.004 U	0.0021 J	0.005 U
Vanadium (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	0.004 U	-
Zinc	mg/L	0.02 U	0.023 U	0.05 U	0.05 U	-	-	-	0.02 U	0.02 U	-	0.05 U	0.005 U	0.02 U	0.023 U	0.05 U	0.05 U	0.005 U
Zinc (dissolved)	mg/L	-	--	-	-	-	-	-	-	-	-	-	-	-	--	-	0.05 U	-
Gas																		
Ethane	mg/L	0.0003 J	-	0.001 U	0.001 U	-	-	-	0.017	0.019	-	0.001 U	-	0.00036 J	-	0.001 U	-	-
Ethene	mg/L	0.001 U	-	0.001 U	0.001 U	-	-	-	0.00071 J	0.0007 J	-	0.001 U	-	0.001 U	-	0.001 U	-	-
Methane	mg/L	0.033	-	0.09	0.087	-	-	-	2	2.4	-	1.5	-	1	-	0.0055	-	-
Field Parameters																		
Conductivity, field	mS/cm	0.82	-	1.76	1.76	-	1.1	1.1	0.971	0.971	-	1.36	1.74	1.321	-	0.61	0.642	0.611
Conductivity, field	uS/cm	-	105	-	-	-	-	-	-	-	774	-	-	-	125	-	-	-
Dissolved oxygen (DO), field	mg/L	0.52	0.52	0.39	0.39	-	1.46	1.46	0.8	0.8	0.46	0.47	0.48	0.44	0	0.36	0.06	0.22
Oxidation reduction potential (ORP), millivolts		-115.2	-246	26	26	-	74	74	76.7	76.7	87	198.8	-34	-76.1	-161	-123	-13	-37
pH, field	s.u.	7.99	7.17	7.55	7.55	-	7.4	7.4	7.23	7.23	7.15	7.41	6.8	7.3	7.47	7.67	7.62	6.63
Temperature, sample	Deg C	13.5	14.69	21.62	21.62	-	13.72	13.72	17.2	17.2	25.45	22.18	11.93	19.6	13.99	23.82	12.8	12.09
Turbidity, field	NTU	6.03	4.25	2.15	2.15	-	1.09	1.09	2.02	2.02	1.56	1.83	4.22	1.54	3.98	4.71	15.4	-

Table 5

Sample Location:	GHD-1005M	GHD-1005M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1151M	GHD-1151M
Sample ID:	WG-11223073-052522-NL-001	GW-12602792-051723-DA-059	GW-17358-080118-DR-041	GW-17358-051420-DR-003	GW-17358-052220-DR-003	GW-17358-102120-DR-011	GW-11223073-051321-DR-035	GW-11223073-060122-AC-032	GW-12602792-051223-CM-012	GW-17358-080318-DR-060	GW-11223073-051420-DR-006	GW-17358-102120-DR-006	GW-11223073-051321-DR-037	GW-11223073-060122-AC-031	GW-12602792-051123-CM-010	GW-17358-102120-DR-040	GW-17358-080118-DR-040	GW-17358-102120-DR-012
Sample Date:	05/25/2022	05/17/2023	08/01/2018	05/14/2020	05/22/2020	10/21/2020	05/13/2021	06/01/2022	05/12/2023	08/03/2018	05/14/2020	10/21/2020	05/13/2021	06/01/2022	05/11/2023	08/01/2018	10/21/2020	
Sample Type:																		
Aquifer	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area
Parameters	Units																	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.002 U	0.002 U	0.5 U	0.25 U	-	1 U	0.2 U	0.25 U	1 U	1.3 U	0.4 U	0.5 U	0.1 U	0.29 U	0.4 U	2 U	2.5 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
2-Butanone (Methyl ethyl ketone) (N	mg/L	0.01 U	0.01 U	5 U	2.5 U	-	10 U	2 U	1.3 U	5 U	13 U	4 U	5 U	1 U	1.4 U	2 U	20 U	25 U
2-Hexanone	mg/L	0.01 U	0.01 U	5 U	2.5 U	-	10 U	2 U	1.3 U	5 U	13 U	4 U	5 U	1 U	1.4 U	2 U	20 U	25 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.01 U	5 U	2.5 U	-	10 U	2 U	1.3 U	5 U	13 U	4 U	5 U	1 U	1.4 U	2 U	20 U	25 U
Acetone	mg/L	0.01 U	0.01 U	5 U	2.5 U	-	10 U	2 U	1.3 U	5 U	13 U	4 U	5 U	1 U	1.4 U	2 U	20 U	25 U
Benzene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Bromoform	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Carbon disulfide	mg/L	0.001 U	0.001 U	2.5 U	1.3 U	-	5 U	1 U	0.13 U	0.5 U	6.3 U	2 U	2.5 U	0.5 U	0.14 U	0.2 U	10 U	13 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Chloroethane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	2.4 ^{abc}	2.1 ^{abc}	-	3.6 ^{abc}	3.9 ^{abc}	0.83 ^{abc}	1.6 ^{abc}	0.28 J ^{ab}	0.43 ^{ab}	0.17 J ^{ab}	0.3 ^{ab}	0.13 J ^{ab}	0.25 ^{ab}	1.8 J ^{abc}	4.7 ^{abc}
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	1 U	0.5 U	0.25 U	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
m&p-Xylenes	mg/L	-	-	-	-	-	-	0.4 U	-	-	-	-	-	0.2 U	-	-	-	-
Methyl acetate	mg/L	0.01 U	0.01 U	5 U	2.5 U	-	10 U	0.2 U	1.3 U	5 U	13 U	4 U	5 U	0.1 U	1.4 U	2 U	20 U	25 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Methyl tert butyl ether (MTBE)	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	1 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.5 U	0.14 U	0.2 U	2 U	2.5 U
Methylene chloride	mg/L	0.005 U	0.005 U	2.5 U	1.3 U	-	5 U	1 U	0.63 U	2.5 U	6.3 U	2 U	2.5 U	0.5 U	0.71 U	1 U	10 U	13 U
o-Xylene	mg/L	-	-	-	-	-	-	0.2 U	-	-	-	-	-	0.1 U	-	-	-	-
Styrene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	15 ^{abc}	16 ^{abc}	-	21 ^{abc}	28.6 ^{abcd}	8.4 ^{abc}	18 ^{abc}	44 ^{abcd}	22 ^{abc}	19 ^{abc}	10.8 ^{abc}	7.3 ^{abc}	6.1 ^{abc}	39 ^{abcd}	39 ^{abcd}
Toluene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Total target chlorinated VOCs	mg/L	-	-	18.58	19.81	-	-	-	-	-	45.02	22.7	-	-	-	-	42.7	-
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Trichloroethene	mg/L	0.001 U	0.001 U	1 ^{abc}	1.5 ^{abc}	-	2.1 ^{abc}	3.8 ^{abcd}	0.95 ^{abc}	1.6 ^{abc}	0.74 J ^{abc}	0.27 J ^{abc}	0.24 J ^{abc}	0.3 ^{abc}	0.13 J ^{ab}	0.13 J ^{ab}	1.9 J ^{abc}	4.3 ^{abcd}
Trichlorofluoromethane (CFC-111)	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Trifluorotrichloroethane (CFC-113)	mg/L	0.001 U	0.001 U	0.5 U	0.25 U	-	1 U	0.2 U	0.13 U	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Vinyl chloride	mg/L	0.00047 J	0.001 U	0.18 J ^{abc}	0.21 J ^{abc}	-	1 U	0.3 ^{abc}	0.083 J ^{abc}	0.5 U	1.3 U	0.4 U	0.5 U	0.1 U	0.14 U	0.2 U	2 U	2.5 U
Xylenes (total)	mg/L	0.002 U	0.002 U	1 U	0.5 U	-	2 U	-	0.25 U	1 U	2.5 U	0.8 U	1 U	-	0.29 U	0.4 U	4 U	5 U
Semi-Volatile Organic Compounds (SVOCs)																		
2,2'-Oxybis(1-chloropropane) (bis(2-	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
2,4,5-Trichlorophenol	mg/L	0.005 U	-	0.0048 U	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
2,4,6-Trichlorophenol	mg/L	0.005 U	-	0.0038 U	0.0043 U	-	-	-	-	-	0.0038 U	0.0039 U	-	-	-	-	0.017 U	-
2,4-Dichlorophenol	mg/L	0.002 U	-	0.0095 U	0.011 U	-	-	-	-	-	0.0095 U	0.0097 U	-	-	-	-	0.043 U	-
2,4-Dimethylphenol	mg/L	0.002 U	-	0.0048 U	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
2,4-Dinitrophenol	mg/L	0.01 U	-	0.019 U	0.021 U	-	-	-	-	-	0.019 U	0.019 U	-	-	-	-	0.086 U	-
2,4-Dinitrotoluene	mg/L	0.005 U	-	0.0048 U	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
2,6-Dinitrotoluene	mg/L	0.005 U	-	0.0048 U	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
2-Chloronaphthalene	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
2-Chlorophenol	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
2-Methylnaphthalene	mg/L	0.0002 U	-	0.0048 U	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.0017 J	-
2-Methylphenol	mg/L	0.001 U	-	0.00026 J	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
2-Nitroaniline	mg/L	0.002 U	-	0.019 U	0.021 U	-	-	-	-	-	0.019 U	0.019 U	-	-	-	-	0.086 U	-
2-Nitrophenol	mg/L	0.002 U	-	0.0048 U	0.0053 U	-	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
3&4-Methylphenol	mg/L	0.002																

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1005M	GHD-1005M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1151M	GHD-1151M
Sample ID:	WG-11223073-052522-NL-001	GW-12602792-051723-DA-059	GW-17358-080118-DR-041	GW-17358-051420-DR-003	GW-17358-052220-DR-003	GW-17358-102120-DR-011	GW-11223073-051321-DR-035	GW-11223073-060122-AC-032	GW-12602792-051223-CM-012	GW-17358-080318-DR-060	GW-17358-051420-DR-006	GW-17358-102120-DR-006	GW-11223073-051321-DR-037	GW-12602792-060122-AC-031	GW-12602792-051123-CM-010	GW-17358-080118-DR-040	GW-17358-102120-DR-012
Sample Date:	05/25/2022	05/17/2023	08/01/2018	05/14/2020	05/22/2020	10/21/2020	05/13/2021	06/01/2022	05/12/2023	08/03/2018	05/14/2020	10/21/2020	05/13/2021	06/01/2022	05/11/2023	08/01/2018	10/21/2020
Sample Type:																	
Aquifer	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area
Parameters	Units																
Acenaphthene	mg/L	0.0002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Acenaphthylene	mg/L	0.0002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Acetophenone	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Anthracene	mg/L	0.0002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Atrazine	mg/L	0.002 U	-	0.0029 U	0.0032 U	-	-	-	-	0.0029 U	0.0029 U	-	-	-	-	0.013 U	-
Benzaldehyde	mg/L	0.002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Benzo(a)anthracene	mg/L	0.0002 U	-	0.00095 U	0.0011 U	-	-	-	-	0.00095 U	0.00097 U	-	-	-	-	0.0043 U	-
Benzo(a)pyrene	mg/L	0.0002 U	-	0.00095 U	0.0011 U	-	-	-	-	0.00095 U	0.00097 U	-	-	-	-	0.0043 U	-
Benzo(b)fluoranthene	mg/L	0.0002 U	-	0.00095 U	0.0011 U	-	-	-	-	0.00095 U	0.00097 U	-	-	-	-	0.0043 U	-
Benzo(g,h,i)perylene	mg/L	0.0002 U	-	0.00095 U	0.0011 U	-	-	-	-	0.00095 U	0.00097 U	-	-	-	-	0.0043 U	-
Benzo(k)fluoranthene	mg/L	0.0002 U	-	0.00095 U	0.0011 U	-	-	-	-	0.00095 U	0.00097 U	-	-	-	-	0.0043 U	-
Biphenyl (1,1-Biphenyl)	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
bis(2-Chloroethoxy)methane	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
bis(2-Chloroethyl)ether	mg/L	0.001 U	-	0.00095 U	0.0011 U	-	-	-	-	0.00095 U	0.00097 U	-	-	-	-	0.0043 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.005 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.064 ^{abc}	-
Butyl benzylphthalate (BBP)	mg/L	0.002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Caprolactam	mg/L	0.0019 JB	-	0.0095 U	0.011 U	-	-	-	-	0.0095 U	0.0097 U	-	-	-	-	0.043 U	-
Carbazole	mg/L	0.001 U	-	0.0095 U	0.011 U	-	-	-	-	0.0095 U	0.0097 U	-	-	-	-	0.043 U	-
Chrysene	mg/L	0.0002 U	-	0.00095 U	0.0011 U	-	-	-	-	0.00095 U	0.00097 U	-	-	-	-	0.0043 U	-
Dibenz(a,h)anthracene	mg/L	0.0002 U	-	0.0019 U	0.0021 U	-	-	-	-	0.0019 U	0.0019 U	-	-	-	-	0.0086 U	-
Dibenzofuran	mg/L	0.001 U	-	0.0038 U	0.0043 U	-	-	-	-	0.0038 U	0.0039 U	-	-	-	-	0.017 U	-
Diethyl phthalate	mg/L	0.005 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Dimethyl phthalate	mg/L	0.002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Di-n-butylphthalate (DBP)	mg/L	0.005 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Di-n-octyl phthalate (DnOP)	mg/L	0.002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Fluoranthene	mg/L	0.0002 U	-	0.00095 U	0.0011 U	-	-	-	-	0.00095 U	0.00097 U	-	-	-	-	0.0014 J	-
Fluorene	mg/L	0.0002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Hexachlorobenzene	mg/L	0.0002 U	-	0.00019 U	0.00021 U	-	-	-	-	0.00019 U	0.00019 U	-	-	-	-	0.00086 U	-
Hexachlorobutadiene	mg/L	0.001 U	-	0.00095 U	0.0011 U	-	-	-	-	0.00095 U	0.00097 U	-	-	-	-	0.0043 U	-
Hexachlorocyclopentadiene	mg/L	0.01 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Hexachloroethane	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Indeno(1,2,3-cd)pyrene	mg/L	0.0002 U	-	0.0019 U	0.0021 U	-	-	-	-	0.0019 U	0.0019 U	-	-	-	-	0.0086 U	-
Isophorone	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Naphthalene	mg/L	0.0002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Nitrobenzene	mg/L	0.001 U	-	0.0029 U	0.0032 U	-	-	-	-	0.0029 U	0.0029 U	-	-	-	-	0.013 U	-
N-Nitrosodi-n-propylamine	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
N-Nitrosodiphenylamine	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Pentachlorophenol	mg/L	0.01 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Phenanthrene	mg/L	0.0002 U	-	0.0019 U	0.0021 U	-	-	-	-	0.0019 U	0.0019 U	-	-	-	-	0.0028 J ^c	-
Phenol	mg/L	0.001 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.022 U	-
Pyrene	mg/L	0.0002 U	-	0.0048 U	0.0053 U	-	-	-	-	0.0048 U	0.0049 U	-	-	-	-	0.0017 J	-
Metals																	
Aluminum	mg/L	0.072	0.072 J	0.45 ^{xab}	-	0.44	-	0.05 U	-	0.034 J	0.05 U	-	-	0.035 J	-	0.05 U	-
Aluminum (dissolved)	mg/L	-	--	-	-	0.038 J	-	0.05 U	-	-	-	-	-	-	-	-	-
Antimony	mg/L	0.002 U	0.0075 U	0.002 U	-	0.002 U	-	0.002 U	-	0.00074 J	0.002 U	-	-	0.002 U	-	0.002 U	-
Antimony (dissolved)	mg/L	-	--	-	-	0.002 U	-	0.002 U	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.01	0.029 ^{abc}	0.0041 J	-	0.016 ^{abc}	-	0.023 ^{abc}	-	0.005 U	0.005 U	-	-	0.005 U	-	0.0012 J	-
Arsenic (dissolved)	mg/L	-	--	-	-	0.012 ^{abc}	-	0.015 ^{abc}	-	-	-	-	-	-	-	-	-
Barium	mg/L	0.049	0.073 J	0.16	-	0.22	-	0.26	-	0.21	0.13	-	-	0.095	-	0.18	-
Barium (dissolved)	mg/L	-	--	-	-	0.21	-	0.24	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	0.001 U	0.0006 U	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U	-
Beryllium (dissolved)	mg/L	-	--	-	-	0.001 U	-	0.001 U	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.001 U	0.00045 U	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U	-	0.001 U	-
Cadmium (dissolved)	mg/L	-	--	-	-	0.001 U	-	0.001 U	-	-	-	-	-	-	-	-	-
Calcium	mg/L	110	110	120	-	110	-	110	-	150	110	-	-	91	-	140	-
Calcium (dissolved)	mg/L	-	--	-	-	120	-	100	-	-	-	-	-	-	-	-	-
Chromium	mg/L	0.005 U	0.00076 U	0.01 U	-	0.0049 J	-	0.005 U	-	0.01 U	0.01 U	-	-	0.005 U	-	0.01 U	-
Chromium (dissolved)	mg/L	-	--	-	-	0.01 U	-	0.005 U	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.0012	0.001 J	0.0037 J	-	0.0034 J	-	0.004	-	0.0022 J	0.0015 J	-	-	0.00093 J	-	0.0049 J	-
Cobalt (dissolved)	mg/L	-	--	-	-	0.0033 J	-	0.0039	-	-	-	-	-	-	-	-	-
Copper	mg/L	0.002 U	0.0035 J	0.0037 J	-	0.004 U	-	0.002 U	-	0.0025 J	0.004 U	-	-	0.0027	-	0.0047	-
Copper (dissolved)	mg/L	-	--	-	-	0.004 U	-	0.002 U	-	-	-	-	-	-	-	-	-
Iron	mg/L	1.3 ^{xab}	4.9 ^{xab}	2.7 ^{xab}	-	9.2 ^{xab}	-	17 ^{xab}	-	0.19 J	0.061 J	-	-	0.12	-	0.22	-
Iron (dissolved)	mg/L	0.74	--	-	-	7.5 ^{xab}	-	14 ^{xab}	-	-	-	-	-	0.1 U	-	-	-
Lead	mg/L	0.001 U	0.0028 U	0.0035	-	0.0022 J	-	0.001 U	-	0.00056 J	0.003 U	-	-	0.001 U	-	0.0011 J	-
Lead (dissolved)	mg/L	-	--	-	-	0.003 U	-	0.001 U	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	21	20	21	-	29	-	30	-	20	15	-	-	20	-	25	-
Magnesium (dissolved)	mg/L	-	--	-	-	30	-	28	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.5	0.13	0.31	-	0.44	-	0.34	-	0.69 ^{xab}	0.34	-	-	0.29	-	0.74 ^{xab}	-
Manganese (dissolved)	mg/L	0.45	--	0.29	-	0.47	-	0.33	-	0.52	-	-	-	0.25	-	0.65	-
Mercury	mg/L	0.0002 U	0.00013 U	0.0002 U	-	0.0002 U	-	0.0002 U	-	0.0002 U	0.0002 U	-	-	0.00018 JB	-	0.0002 U	-
Mercury (dissolved)	mg/L	-	--	-	-	0.0002 U	-	0.0002 U	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.0038	0.005 J	0.02	-	0.01 J	-	0.0098	-	0.012 J	0.0095 J	-	-	0.0038	-	0.022	-
Nickel (dissolved)	mg/L	-	--	-	-	0.011 J	-	0.0092	-	-	-	-	-	-	-	-	-

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1005M	GHD-1005M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1134M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1145M	GHD-1151M	GHD-1151M
Sample ID:	WG-11223073-052522-NL-001	GW-12602792-051723-DA-059	GW-17358-080118-DR-041	GW-17358-051420-DR-003	GW-17358-052220-DR-003	GW-17358-102120-DR-011	GW-11223073-051321-DR-035	GW-11223073-060122-AC-032	GW-12602792-051223-CM-012	GW-17358-080318-DR-060	GW-17358-051420-DR-006	GW-17358-102120-DR-006	GW-11223073-051321-DR-037	GW-11223073-060122-AC-031	GW-12602792-051123-CM-010	GW-17358-080118-DR-040	GW-17358-102120-DR-012
Sample Date:	05/25/2022	05/17/2023	08/01/2018	05/14/2020	05/22/2020	10/21/2020	05/13/2021	06/01/2022	05/12/2023	08/03/2018	05/14/2020	10/21/2020	05/13/2021	06/01/2022	05/11/2023	08/01/2018	10/21/2020
Sample Type:																	
Aquifer	Shallow	Shallow	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area
Parameters	Units																
Potassium	mg/L	3.9	2 J	11	-	13	-	-	15	-	8.1	7.5	-	-	6	-	10
Potassium (dissolved)	mg/L	-	--	-	-	14	-	-	14	-	-	-	-	-	-	-	-
Selenium	mg/L	0.005 U	0.006 U	0.00097 J	-	0.005 U	-	-	0.005 U	-	0.0014 J	0.005 U	-	-	0.005 U	-	0.005 U
Selenium (dissolved)	mg/L	-	--	-	-	0.005 U	-	-	0.005 U	-	-	-	-	-	-	-	-
Silver	mg/L	0.001 U	0.00062 U	0.0002 U	-	0.0002 U	-	-	0.001 U	-	0.0002 U	0.0002 U	-	-	0.001 U	-	0.0002 U
Silver (dissolved)	mg/L	-	--	-	-	0.0002 U	-	-	0.001 U	-	-	-	-	-	-	-	-
Sodium	mg/L	49	59	120	-	60	-	-	68	-	140	85	-	-	23	-	130
Sodium (dissolved)	mg/L	-	--	-	-	62	-	-	65	-	-	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.0047 J ^{xabc}	0.002 U	-	0.002 U	-	-	0.001 U	-	0.002 U	0.002 U	-	-	0.001 U	-	0.002 U
Thallium (dissolved)	mg/L	-	--	-	-	0.002 U	-	-	0.001 U	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.005 U	0.0056 U	0.002 J	-	0.0011 J	-	-	0.005 U	-	0.00083 J	0.004 U	-	-	0.0011 J	-	0.004 U
Vanadium (dissolved)	mg/L	-	--	-	-	0.004 U	-	-	0.005 U	-	-	-	-	-	-	-	-
Zinc	mg/L	0.02 U	0.023 U	0.05 U	-	0.05 U	-	-	0.02 U	-	0.05 U	0.05 U	-	-	0.02 U	-	0.05 U
Zinc (dissolved)	mg/L	-	--	-	-	0.05 U	-	-	0.02 U	-	-	-	-	-	-	-	-
Gas																	
Ethane	mg/L	0.00043 JB	-	0.001 UJ	-	-	-	-	0.033	-	0.001 U	-	-	-	0.00041 J	-	0.001 UJ
Ethene	mg/L	0.00029 J	-	0.0049 J	-	-	-	-	0.012	-	0.001 U	-	-	-	0.0004 J	-	0.0077 J
Methane	mg/L	0.4	-	3.2 J	-	-	-	-	13	-	0.035	-	-	-	0.0078	-	4.2 J
Field Parameters																	
Conductivity, field	mS/cm	0.728	-	1.232	1.02	-	-	1.07	0.968	-	1.15	1.044	-	0.855	0.696	-	1.4
Conductivity, field	uS/cm	-	95.3	-	-	-	-	-	-	1310	-	-	-	-	-	1370	-
Dissolved oxygen (DO), field	mg/L	0.49	0	1.32	0.13	-	-	0.65	0.63	0	0.3	0.17	-	0.58	1.27	0.75	0.03
Oxidation reduction potential (ORP), millivolts		-9.6	-212	8	-98.6	-	-	-101	-266	-130	55	-101	-	9	36.7	-23	-30.9
pH, field	s.u.	7.37	7.51	7.01	6.92	-	-	7.47	6.81	7.09	7.16	7.57	-	7.36	7.27	7.35	6.88
Temperature, sample	Deg C	14.5	12.75	21.45	10.5	-	-	14.09	17.4	20.41	19.4	10.64	-	14.02	20.6	14.5	21.69
Turbidity, field	NTU	4.41	4.89	46.4	13.7	14	-	4.62	12.01	4.56	1.72	0.41	-	1.46	1.9	0.81	3.44

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1151M	GHD-1151M	GHD-1151M	GHD-1196I	GHD-1196I	GHD-1196I	GHD-1196M	GHD-1196M	GHD-1196M	GHD-1209M	GHD-1209M	GHD-1211M	GHD-1211M	GHD-1211M	GHD-1212M	GHD-1212M	GHD-1212M
Sample ID:	GW-11223073-051321-DR-036	GW-11223073-060122-AC-033	GW-12602792-051223-LK-011	GW-11223073-051121-DR-023	GW-11223073-060222-AC-051	GW-12602792-051523-BC-025	GW-11223073-051121-DR-024	GW-11223073-060222-AC-052	GW-12602792-051523-BC-030	GW-11223073-053122-AC-018	GW-12602792-051223-LK-017	GW-17358-073018-DR-007	WG-11223073-052622-NL-002	GW-12602792-051723-BC-060	GW-17358-073018-DR-011	GW-17358-051920-DR-017	GW-11223073-051021-DR-011
Sample Date:	05/13/2021	06/01/2022	05/12/2023	05/11/2021	06/02/2022	05/15/2023	05/11/2021	06/02/2022	05/15/2023	05/31/2022	05/12/2023	07/30/2018	05/26/2022	05/17/2023	07/30/2018	05/19/2020	05/10/2021
Sample Type:																	
Aquifer	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Parameters	Units																
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.2 U	1 U	4 U	0.001 U	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (M	mg/L	2 U	5 U	20 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0016 J	0.01 U	0.01 U
2-Hexanone	mg/L	2 U	5 U	20 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	2 U	5 U	20 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	2 U	5 U	20 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0082 J	0.01 U	0.01 U
Benzene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	1 U	0.5 U	2 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	3 ^{abc}	2.9 ^{abc}	4.1 ^{abc}	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0007 J	0.001 U	0.001 U	0.001 U	0.00046 J	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.2 U	0.5 U	2 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylenes	mg/L	0.4 U	-	-	0.002 U	-	-	-	0.002 U	-	-	-	-	-	-	-	0.002 U

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1151M	GHD-1151M	GHD-1151M	GHD-1196I	GHD-1196I	GHD-1196I	GHD-1196M	GHD-1196M	GHD-1196M	GHD-1209M	GHD-1209M	GHD-1211M	GHD-1211M	GHD-1211M	GHD-1212M	GHD-1212M	GHD-1212M	
Sample ID:	GW-11223073-051321-DR-036	GW-11223073-060122-AC-033	GW-12602792-051223-LK-011	GW-11223073-051121-DR-023	GW-11223073-060222-AC-051	GW-12602792-051523-BC-025	GW-11223073-051121-DR-024	GW-11223073-060222-AC-052	GW-12602792-051523-BC-030	GW-11223073-053122-AC-018	GW-12602792-051223-LK-017	GW-17358-073018-DR-007	WG-11223073-052622-NL-002	GW-12602792-051723-BC-060	GW-17358-073018-DR-011	GW-17358-051920-DR-017	GW-11223073-051021-DR-011	
Sample Date:	05/13/2021	06/01/2022	05/12/2023	05/11/2021	06/02/2022	05/15/2023	05/11/2021	06/02/2022	05/15/2023	05/31/2022	05/12/2023	07/30/2018	05/26/2022	05/17/2023	07/30/2018	05/19/2020	05/10/2021	
Sample Type:																		
Aquifer	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	
Parameters	Units																	
Acenaphthene	mg/L	-	-	-	0.005 U	0.00021 U	-	0.005 U	0.00019 U	-	-	0.0048 U	0.00021 U	-	0.0048 U	0.005 U	0.005 U	
Acenaphthylene	mg/L	-	-	-	0.005 U	0.00021 U	-	0.005 U	0.00019 U	-	-	0.0048 U	0.00021 U	-	0.0048 U	0.005 U	0.005 U	
Acetophenone	mg/L	-	-	-	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	-	0.0048 U	0.001 U	-	0.0048 U	0.005 U	0.005 U	
Anthracene	mg/L	-	-	-	0.005 U	0.00021 U	-	0.005 U	0.00019 U	-	-	0.0048 U	0.00021 U	-	0.0048 U	0.005 U	0.005 U	
Atrazine	mg/L	-	-	-	0.003 U	0.0021 U	-	0.003 U	0.0019 U	-	-	0.0029 U	0.0021 U	-	0.0029 U	0.003 U	0.003 U	
Benzaldehyde	mg/L	-	-	-	0.005 U	0.0021 U	-	0.005 U	0.0019 U	-	-	0.0048 U	0.0021 U	-	0.0048 U	0.005 U	0.005 U	
Benzo(a)anthracene	mg/L	-	-	-	0.001 U	0.00021 U	-	0.001 U	0.00019 U	-	-	0.00095 U	0.00021 U	-	0.00095 U	0.00099 U	0.001 U	
Benzo(a)pyrene	mg/L	-	-	-	0.001 U	0.00021 U	-	0.001 U	0.00019 U	-	-	0.00095 U	0.00021 U	-	0.00095 U	0.00099 U	0.001 U	
Benzo(b)fluoranthene	mg/L	-	-	-	0.001 U	0.00021 U	-	0.001 U	0.00019 U	-	-	0.00095 U	0.00021 U	-	0.00095 U	0.00099 U	0.001 U	
Benzo(g,h,i)perylene	mg/L	-	-	-	0.001 U	0.00021 U	-	0.001 U	0.00019 U	-	-	0.00095 U	0.00021 U	-	0.00095 U	0.00099 U	0.001 U	
Benzo(k)fluoranthene	mg/L	-	-	-	0.001 U	0.00021 U	-	0.001 U	0.00019 U	-	-	0.00095 U	0.00021 U	-	0.00095 U	0.00099 U	0.001 U	
Biphenyl (1,1-Biphenyl)	mg/L	-	-	-	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	-	0.0048 U	0.001 U	-	0.0048 U	0.005 U	0.005 U	
bis(2-Chloroethoxy)methane	mg/L	-	-	-	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	-	0.0048 U	0.001 U	-	0.0048 U	0.005 U	0.005 U	
bis(2-Chloroethyl)ether	mg/L	-	-	-	0.001 U	0.001 U	-	0.001 U	0.00096 U	-	-	0.00095 U	0.001 U	-	0.00095 U	0.00099 U	0.001 U	
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	0.005 U	0.0052 U	-	0.005 U	0.0048 U	-	-	0.0048 U	0.0052 U	-	0.0048 U	0.005 U	0.005 U	
Butyl benzylphthalate (BBP)	mg/L	-	-	-	0.005 U	0.0021 U	-	0.005 U	0.0019 U	-	-	0.0048 U	0.0021 U	-	0.0048 U	0.005 U	0.005 U	
Caprolactam	mg/L	-	-	-	0.01 U	0.0052 U	-	0.01 U	0.0048 U	-	-	0.0095 U	0.0026 JB	-	0.0095 U	0.0099 U	0.01 U	
Carbazole	mg/L	-	-	-	0.01 U	0.001 U	-	0.01 U	0.00096 U	-	-	0.0095 U	0.001 U	-	0.0095 U	0.0099 U	0.01 U	
Chrysene	mg/L	-	-	-	0.001 U	0.00021 U	-	0.001 U	0.00019 U	-	-	0.00095 U	0.00021 U	-	0.00095 U	0.00099 U	0.001 U	
Dibenz(a,h)anthracene	mg/L	-	-	-	0.002 U	0.00021 U	-	0.002 U	0.00019 U	-	-	0.0019 U	0.00021 U	-	0.0019 U	0.002 U	0.002 U	
Dibenzofuran	mg/L	-	-	-	0.004 U	0.001 U	-	0.004 U	0.00096 U	-	-	0.0038 U	0.001 U	-	0.0038 U	0.004 U	0.004 U	
Diethyl phthalate	mg/L	-	-	-	0.005 U	0.0052 U	-	0.005 U	0.0048 U	-	-	0.0048 U	0.0052 U	-	0.0048 U	0.005 U	0.005 U	
Dimethyl phthalate	mg/L	-	-	-	0.005 U	0.0021 U	-	0.005 U	0.0019 U	-	-	0.0048 U	0.0021 U	-	0.0048 U	0.005 U	0.005 U	
Di-n-butylphthalate (DBP)	mg/L	-	-	-	0.005 U	0.0052 U	-	0.005 U	0.0048 U	-	-	0.0048 U	0.0052 U	-	0.0048 U	0.005 U	0.005 U	
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	0.005 U	0.0021 U	-	0.005 U	0.0019 U	-	-	0.0048 U	0.0021 U	-	0.0048 U	0.005 U	0.005 U	
Fluoranthene	mg/L	-	-	-	0.001 U	0.00021 U	-	0.001 U	0.00019 U	-	-	0.00095 U	0.00021 U	-	0.00095 U	0.00099 U	0.001 U	
Fluorene	mg/L	-	-	-	0.005 U	0.00021 U	-	0.005 U	0.00019 U	-	-	0.0048 U	0.00021 U	-	0.0048 U	0.005 U	0.005 U	
Hexachlorobenzene	mg/L	-	-	-	0.0002 U	0.00021 U	-	0.0002 U	0.00019 U	-	-	0.00019 U	0.00021 U	-	0.00019 U	0.0002 U	0.0002 U	
Hexachlorobutadiene	mg/L	-	-	-	0.001 U	0.001 U	-	0.001 U	0.00096 U	-	-	0.00095 U	0.001 U	-	0.00095 U	0.00099 U	0.001 U	
Hexachlorocyclopentadiene	mg/L	-	-	-	0.005 U	0.01 U	-	0.005 U	0.0096 U	-	-	0.0048 U	0.01 U	-	0.0048 U	0.005 U	0.005 U	
Hexachloroethane	mg/L	-	-	-	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	-	0.0048 U	0.001 U	-	0.0048 U	0.005 U	0.005 U	
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	0.002 U	0.00021 U	-	0.002 U	0.00019 U	-	-	0.0019 U	0.00021 U	-	0.0019 U	0.002 U	0.002 U	
Isophorone	mg/L	-	-	-	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	-	0.0048 U	0.001 U	-	0.0048 U	0.005 U	0.005 U	
Naphthalene	mg/L	-	-	-	0.005 U	0.00021 U	-	0.005 U	0.00019 U	-	-	0.0048 U	0.00021 U	-	0.0048 U	0.005 U	0.005 U	
Nitrobenzene	mg/L	-	-	-	0.003 U	0.001 U	-	0.003 U	0.00096 U	-	-	0.0029 U	0.001 U	-	0.0029 U	0.003 U	0.003 U	
N-Nitrosodi-n-propylamine	mg/L	-	-	-	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	-	0.0048 U	0.001 U	-	0.0048 U	0.005 U	0.005 U	
N-Nitrosodiphenylamine	mg/L	-	-	-	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	-	0.0048 U	0.001 U	-	0.0048 U	0.005 U	0.005 U	
Pentachlorophenol	mg/L	-	-	-	0.005 U	0.01 U	-	0.005 U	0.0096 U	-	-	0.0048 U	0.01 U	-	0.0048 U	0.005 U	0.005 U	
Phenanthrene	mg/L	-	-	-	0.002 U	0.00021 U	-	0.002 U	0.00019 U	-	-	0.0019 U	0.00021 U	-	0.0019 U	0.002 U	0.002 U	
Phenol	mg/L	-	-	-	0.005 U	0.001 U	-	0.005 U	0.00096 U	-	-	0.0048 U	0.001 U	-	0.0048 U	0.005 U	0.005 U	
Pyrene	mg/L	-	-	-	0.005 U	0.00021 U	-	0.005 U	0.00019 U	-	-	0.0048 U	0.00021 U	-	0.0048 U	0.005 U	0.005 U	
Metals																		
Aluminum	mg/L	-	0.05 U	-	0.01 U	0.061	0.047 J	0.024	1.3 ^{xab}	0.16 J	0.088	-	0.12	0.32	0.12 J	0.05 U	0.05 U	0.015
Aluminum (dissolved)	mg/L	-	-	-	-	0.05 U	--	-	1 ^{xab}	--	-	-	-	-	-	-	-	-
Antimony	mg/L	-	0.002 U	-	0.005 U	0.002 U	0.0075 U	0.005 U	0.002 U	0.0075 U	0.002 U	-	0.002 U	0.002 U	0.0075 U	0.002 U	0.002 U	0.005 U
Antimony (dissolved)	mg/L	-	-	-	-	0.002 U	--	-	0.002 U	--	-	-	-	-	--	-	-	-
Arsenic	mg/L	-	0.0093	-	0.012 ^{abc}	0.015 ^{abc}	0.011 J ^{abc}	0.002 U	0.005 U	0.0041 U	0.0036 J	-	0.0059	0.0015 J	0.0041 U	0.0036 J	0.0012 J	0.003
Arsenic (dissolved)	mg/L	-	-	-	-	0.0088	--	-	0.005 U	--	-	-	-	-	-	-	-	-
Barium	mg/L	-	0.13	-	0.07	0.08	0.12 J	0.054	0.017	0.028 J	0.029	-	0.049 J	0.052	0.054 J	0.19	0.089 J	0.205
Barium (dissolved)	mg/L	-	-	-	-	0.076	--	-	0.017	--	-	-	-	-	--	-	-	-
Beryllium	mg/L	-	0.001 U	-	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.0006 U	0.001 U	-	0.001 U	0.001 U	0.0006 U	0.00033 J	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	-	0.001 U	--	-	0.001 U	--	-	-	-	-	--	-	-	-
Cadmium	mg/L	-	0.001 U	-	0.0005 U	0.001 U	0.00045 U	0.0005 U	0.001 U	0.00045 U	0.001 U	-	0.001 U	0.001 U	0.00045 U	0.001 U	0.001 U	0.0005 U
Cadmium (dissolved)	mg/L	-	-	-	-	0.001 U	--	-	0.001 U	--	-	-	-	-	--	-	-	-
Calcium	mg/L	-	79	-	91	110	120	147	26	44	74	-	140	77	88	220	120	111
Calcium (dissolved)	mg/L	-	-	-	-	100	--	-	26	--	-	-	-	-	--	-	-	-
Chromium	mg/L	-	0.005 U	-	0.005 U	0.005 U	0.00076 U	0.005 U	0.005 U	0.00076 U	0.005 U	-	0.01 U	0.005 U	0.00076 U	0.01 U	0.01 U	0.005 U
Chromium (dissolved)	mg/L	-	-	-	-	0.005 U	--	-	0.005 U	--	-	-	-	-	--	-	-	-
Cobalt	mg/L	-	0.0024	-	0.005 U	0.001 U	0.00091 J	0.005 U	0.00024 J	0.00075 U	0.00028 J	-	0.00021 J	0.00036 J	0.00075 U	0.00069 J	0.00031 J	0.005 U
Cobalt (dissolved)	mg/L	-	-	-	-	0.001 U	--	-	0.00023 J	--	-	-	-	-	--	-	-	-
Copper	mg/L	-	0.002 U	-	0.005 U	0.002 U	0.0035 U	0.005 U	0.0029	0.0035 U	0.002 U	-	0.004 U	0.0018 J	0.0035 U	0.004 U	0.0022 J	0.005 U
Copper (dissolved)	mg/L	-	-	-	-	0.002 U	--	-	0.0028	--	-	-	-	-	--	-	-	-
Iron	mg/L	-	3.7 ^{xab}	-	2.6 ^{xab}	4.2 ^{xab}	2.6 ^{xab}	0.04	0.92	0.16 J	2.2 ^{xab}	-	5.4 ^{xab}	2.3 ^{xab}	0.12 J	6.8 ^{xab}	1.4 ^{xab}	3.64 ^{xab}
Iron (dissolved)	mg/L	-	3.4 ^{xab}	-	-	2.6 ^{xab}	--	-	0.98 ^{xab}	--	2.3 ^{xab}	-	-	1.8 ^{xab}	--	-	-	-
Lead	mg/L	-	0.001 U	-	0.003 U	0.001 U	0.0028 U	0.003 U	0.001 U	0.0028 U	0.00052 J	-	0.003 U	0.0015	0.0028 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	-	-	-	-	0.001 U	--	-	0.001 U	--	-	-	-	-	--	-	-	-
Magnesium	mg/L	-	18	-	17.6	21	24	27.5	4.5	7.5	8.2	-	16	11	12	36	16	27.2
Magnesium (dissolved)	mg/L	-	-	-	-	20	--	-	4.6	--	-	-	-	-	--	-	-	-
Manganese	mg/L	-	0.39	-	0.108	0.13	0.23	0.005 U	0.0074 J	0.0032 J	0.16	-	0.37	0.18	0.22	0.49	0.16	0.29
Manganese (dissolved)	mg/L	-	0.4	-	-	0.12	--	-	0.011	--	0.							

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1151M	GHD-1151M	GHD-1151M	GHD-1196I	GHD-1196I	GHD-1196I	GHD-1196M	GHD-1196M	GHD-1196M	GHD-1209M	GHD-1209M	GHD-1211M	GHD-1211M	GHD-1211M	GHD-1212M	GHD-1212M	GHD-1212M
Sample ID:	GW-11223073-051321-DR-036	GW-11223073-060122-AC-033	GW-12602792-051223-LK-011	GW-11223073-051121-DR-023	GW-11223073-060222-AC-051	GW-12602792-051523-BC-025	GW-11223073-051121-DR-024	GW-11223073-060222-AC-052	GW-12602792-051523-BC-030	GW-11223073-053122-AC-018	GW-12602792-051223-LK-017	GW-17358-073018-DR-007	WG-11223073-052622-NL-002	GW-12602792-051723-BC-060	GW-17358-073018-DR-011	GW-17358-051920-DR-017	GW-11223073-051021-DR-011
Sample Date:	05/13/2021	06/01/2022	05/12/2023	05/11/2021	06/02/2022	05/15/2023	05/11/2021	06/02/2022	05/15/2023	05/31/2022	05/12/2023	07/30/2018	05/26/2022	05/17/2023	07/30/2018	05/19/2020	05/10/2021
Sample Type:																	
Aquifer	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Parameters	Units																
Potassium	mg/L	-	9.8	-	1.49	1.7	1.6 J	-	2.6	1.7	2 J	2.6	-	2	3.2	6.2	6.45
Potassium (dissolved)	mg/L	-	-	-	-	1.6	--	-	-	1.6	--	-	-	-	-	-	-
Selenium	mg/L	-	0.005 U	-	0.005 U	0.005 U	0.006 U	0.005 U	0.005 U	0.005 U	0.006 U	0.005 U	-	0.005 U	0.005 U	0.0013 J	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	0.005 U	--	-	0.005 U	0.005 U	--	-	-	-	-	-	-
Silver	mg/L	-	0.001 U	-	0.0005 U	0.001 U	0.00062 U	0.0005 U	0.001 U	0.001 U	0.00062 U	0.001 U	-	0.0002 U	0.001 U	0.00062 U	0.0005 U
Silver (dissolved)	mg/L	-	-	-	-	0.001 U	--	-	0.001 U	0.001 U	--	-	-	-	-	-	-
Sodium	mg/L	-	57	-	100	120	67	157	100	74	51	20	46	59	130	42	84.3
Sodium (dissolved)	mg/L	-	-	-	-	110	--	-	100	--	-	-	-	-	-	-	-
Thallium	mg/L	-	0.001 U	-	0.002 U	0.001 U	0.0027 U	0.002 U	0.001 U	0.0027 U	0.001 U	0.002 U	-	0.002 U	0.00023 J	0.0041 J ^{xyzbc}	0.002 U
Thallium (dissolved)	mg/L	-	-	-	-	0.001 U	--	-	0.001 U	--	-	-	-	-	-	-	-
Vanadium	mg/L	-	0.005 U	-	0.005 U	0.005 U	0.0056 U	0.005 U	0.0025 J	0.0056 U	0.001 J	0.00091 J	0.0013 J	0.0056 U	0.0011 J	0.004 U	0.005 U
Vanadium (dissolved)	mg/L	-	-	-	-	0.005 U	--	-	0.002 J	--	-	-	-	--	-	-	-
Zinc	mg/L	-	0.02 U	-	0.005 U	0.02 U	0.023 U	0.005 U	0.02 U	0.02 U	0.023 U	0.02 U	-	0.05 U	0.02 U	0.023 U	0.006
Zinc (dissolved)	mg/L	-	-	-	-	0.02 U	--	-	0.02 U	--	-	-	-	-	-	-	-
Gas																	
Ethane	mg/L	-	0.023	-	-	0.001 U	-	-	0.001 U	-	0.00078 J	-	-	0.001 U	0.00029 JB	-	-
Ethene	mg/L	-	0.007	-	-	0.001 U	-	-	0.001 U	-	0.001 U	-	-	0.001 U	0.001 U	-	-
Methane	mg/L	-	11	-	-	0.082	-	-	0.00058 J	-	0.25	-	-	0.019	0.33	-	-
Field Parameters																	
Conductivity, field	mS/cm	0.826	0.73	-	1.064	1.055	-	1.65	0.571	-	0.735	-	-	0.7999	0.586	-	1.086
Conductivity, field	uS/cm	-	-	1110	-	-	1060	-	-	577	-	755	-	-	-	655	-
Dissolved oxygen (DO), field	mg/L	0.65	0.62	0.28	0.33	0.75	0.35	6.57	7.24	7.69	0.44	0.18	0.32	0.66	0.83	0.07	0.63
Oxidation reduction potential (ORP), millivolts		-71	1.5	-110	-101	-247	-122	61	99.7	104	157	-109	-115	-34.6	12	10	-110
pH, field	s.u.	7.45	6.98	6.96	7.47	7.37	7.32	7.58	7.65	7.69	7.64	7.44	7.18	7.27	7.5	6.94	6.14 ^{abc}
Temperature, sample	Deg C	14.69	17	19.44	11.59	11.6	19.14	11.84	16.9	21.46	17.6	20.26	21.86	14.3	18.43	18.88	11.08
Turbidity, field	NTU	2.72	4.7	2.17	3.92	11.54	2.37	3.21	10.7	2.44	2.47	2.84	84.3	3.56	7.7	11	1.96

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1212M	GHD-1212M	GHD-1212M	GHD-1213M	GHD-1213M	GHD-1213M	GHD-1214M	GHD-1214M	GHD-1214M	GHD-1214M	GHD-1214M	GHD-1215M	GHD-1215M	GHD-1215M	GHD-1215M	GHD-1215M	GHD-1215M	
Sample ID:	GW-11223073-051021-DR-012	WG-11223073-052622-LK-004	GW-12602792-051723-BC-057	GW-17358-073018-DR-012	GW-11223073-060322-AC-058	GW-12602792-051723-DA-055	GW-17358-080118-DR-038	GW-17358-080118-DR-039	GW-11223073-051221-DR-033	GW-11223073-060322-AC-059	GW-12602792-051623-DR-052	GW-17358-080118-DR-035	GW-17358-052020-DR-018	GW-17358-052020-DR-019	GW-11223073-051221-DR-025	GW-11223073-052722-AC-011	GW-12602792-051623-DA-049	
Sample Date:	05/10/2021	05/26/2022	05/17/2023	07/30/2018	06/03/2022	05/17/2023	08/01/2018	08/01/2018	05/12/2021	06/03/2022	05/16/2023	08/01/2018	05/20/2020	05/20/2020	05/12/2021	05/27/2022	05/16/2023	
Sample Type:	Duplicate						Duplicate							Duplicate				
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	
Parameters	Units																	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.0011	0.0052	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
2-Butanone (Methyl ethyl ketone) (V	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.0068 J	0.01 U	0.01 U	0.012	0.011	0.01 U	0.011	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00048 J	0.00047 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Carbon disulfide	mg/L	0.005 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.00059 J	0.005 U	0.005 U	0.005 U	0.001 U	
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.013	0.011	0.052	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.0017	0.00078 J	0.0024	0.0048	0.0048	0.001	0.00069 J	0.00059 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U</												

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1212M	GHD-1212M	GHD-1212M	GHD-1213M	GHD-1213M	GHD-1213M	GHD-1214M	GHD-1214M	GHD-1214M	GHD-1214M	GHD-1214M	GHD-1215M	GHD-1215M	GHD-1215M	GHD-1215M	GHD-1215M	GHD-1215M		
Sample ID:	GW-11223073-051021-DR-012	WG-11223073-052622-LK-004	GW-12602792-051723-BC-057	GW-17358-073018-DR-012	GW-11223073-060322-AC-058	GW-12602792-051723-DA-055	GW-17358-080118-DR-038	GW-17358-080118-DR-039	GW-11223073-051221-DR-033	GW-11223073-060322-AC-059	GW-12602792-051623-DR-052	GW-17358-080118-DR-035	GW-17358-052020-DR-018	GW-17358-052020-DR-019	GW-11223073-051221-DR-025	GW-11223073-052722-AC-011	GW-12602792-051623-DA-049		
Sample Date:	05/10/2021	05/26/2022	05/17/2023	07/30/2018	06/03/2022	05/17/2023	08/01/2018	08/01/2018	05/12/2021	06/03/2022	05/16/2023	08/01/2018	05/20/2020	05/20/2020	05/12/2021	05/27/2022	05/16/2023		
Sample Type:	Duplicate						Duplicate							Duplicate					
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow		
Parameters	Units																		
Acenaphthene	mg/L	0.005 U	0.00019 U	-	0.012 U	0.0008 U	-	0.019 U	0.02 U	0.005 U	0.0002 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00019 U	-	
Acenaphthylene	mg/L	0.005 U	0.00019 U	-	0.012 U	0.0008 U	-	0.019 U	0.02 U	0.005 U	0.0002 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00019 U	-	
Acetophenone	mg/L	0.005 U	0.00096 U	-	0.012 U	0.004 U	-	0.019 U	0.02 U	0.005 U	0.001 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00096 U	-	
Anthracene	mg/L	0.005 U	0.00019 U	-	0.012 U	0.0008 U	-	0.019 U	0.02 U	0.005 U	0.0002 U	-	0.019 U	0.00039 J	0.01 U	0.005 U	0.00019 U	-	
Atrazine	mg/L	0.003 U	0.0019 U	-	0.0071 U	0.008 U	-	0.012 U	0.012 U	0.003 U	0.002 U	-	0.011 U	0.0064 U	0.0062 U	0.003 U	0.0019 U	-	
Benzaldehyde	mg/L	0.005 U	0.0019 U	-	0.012 U	0.008 U	-	0.019 U	0.02 U	0.005 U	0.002 U	-	0.019 U	0.005 U	0.01 U	0.005 U	0.0019 U	-	
Benzo(a)anthracene	mg/L	0.001 U	0.00019 U	-	0.0024 U	0.0008 U	-	0.0039 U	0.0039 U	0.001 U	0.0002 U	-	0.0038 U	0.0021 U	0.0021 U	0.001 U	0.00019 U	-	
Benzo(a)pyrene	mg/L	0.001 U	0.00019 U	-	0.0024 U	0.0008 U	-	0.0039 U	0.0039 U	0.001 U	0.0002 U	-	0.0038 U	0.0021 U	0.0021 U	0.001 U	0.00019 U	-	
Benzo(b)fluoranthene	mg/L	0.001 U	0.00019 U	-	0.0024 U	0.0008 U	-	0.0039 U	0.0039 U	0.001 U	0.0002 U	-	0.0038 U	0.001 U	0.0021 U	0.0021 U	0.001 U	0.00019 U	-
Benzo(g,h,i)perylene	mg/L	0.001 U	0.00019 U	-	0.0024 U	0.0008 U	-	0.0039 U	0.0039 U	0.001 U	0.0002 U	-	0.0038 U	0.0021 U	0.0021 U	0.001 U	0.00019 U	-	
Benzo(k)fluoranthene	mg/L	0.001 U	0.00019 U	-	0.0024 U	0.0008 U	-	0.0039 U	0.0039 U	0.001 U	0.0002 U	-	0.0038 U	0.0021 U	0.0021 U	0.001 U	0.00019 U	-	
Biphenyl (1,1-Biphenyl)	mg/L	0.005 U	0.00096 U	-	0.012 U	0.004 U	-	0.019 U	0.02 U	0.005 U	0.001 U	-	0.019 U	0.005 U	0.01 U	0.005 U	0.00096 U	-	
bis(2-Chloroethoxy)methane	mg/L	0.005 U	0.00096 U	-	0.012 U	0.004 U	-	0.019 U	0.02 U	0.005 U	0.001 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00096 U	-	
bis(2-Chloroethyl)ether	mg/L	0.001 U	0.00096 U	-	0.0024 U	0.004 U	-	0.0039 U	0.0039 U	0.001 U	0.001 U	-	0.0038 U	0.001 U	0.0021 U	0.0021 U	0.001 U	0.00096 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.005 U	0.0048 U	-	0.012 U	0.02 U	-	0.019 U	0.02 U	0.005 U	0.005 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.0048 U	-	
Butyl benzylphthalate (BBP)	mg/L	0.005 U	0.0019 U	-	0.012 U	0.008 U	-	0.019 U	0.02 U	0.005 U	0.002 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.0019 U	-	
Caprolactam	mg/L	0.01 U	0.0048 U	-	0.039 U	0.02 U	-	0.039 U	0.039 U	0.01 U	0.005 U	-	0.038 U	0.005 U	0.021 U	0.021 U	0.0048 U	-	
Carbazole	mg/L	0.01 U	0.00096 U	-	0.024 U	0.004 U	-	0.039 U	0.039 U	0.01 U	0.001 U	-	0.038 U	0.021 U	0.021 U	0.01 U	0.00096 U	-	
Chrysene	mg/L	0.001 U	0.00019 U	-	0.0024 U	0.0008 U	-	0.0039 U	0.0039 U	0.001 U	0.0002 U	-	0.0038 U	0.0021 U	0.0021 U	0.001 U	0.00019 U	-	
Dibenz(a,h)anthracene	mg/L	0.002 U	0.00019 U	-	0.0048 U	0.0008 U	-	0.0078 U	0.0078 U	0.002 U	0.0002 U	-	0.0076 U	0.0043 U	0.0042 U	0.002 U	0.00019 U	-	
Dibenzofuran	mg/L	0.004 U	0.00096 U	-	0.0095 U	0.004 U	-	0.016 U	0.016 U	0.004 U	0.001 U	-	0.015 U	0.0085 U	0.0083 U	0.004 U	0.00096 U	-	
Diethyl phthalate	mg/L	0.005 U	0.0048 U	-	0.012 U	0.02 U	-	0.019 U	0.02 U	0.005 U	0.005 U	-	0.019 U	0.005 U	0.01 U	0.005 U	0.0048 U	-	
Dimethyl phthalate	mg/L	0.005 U	0.0019 U	-	0.012 U	0.008 U	-	0.019 U	0.02 U	0.005 U	0.002 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.0019 U	-	
Di-n-butylphthalate (DBP)	mg/L	0.005 U	0.0048 U	-	0.012 U	0.02 U	-	0.019 U	0.02 U	0.005 U	0.005 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.0048 U	-	
Di-n-octyl phthalate (DnOP)	mg/L	0.005 U	0.0019 U	-	0.012 U	0.008 U	-	0.019 U	0.02 U	0.005 U	0.002 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.0019 U	-	
Fluoranthene	mg/L	0.001 U	0.00019 U	-	0.0024 U	0.0008 U	-	0.0039 U	0.0039 U	0.001 U	0.0002 U	-	0.0038 U	0.0021 U	0.0021 U	0.001 U	0.00019 U	-	
Fluorene	mg/L	0.005 U	0.00019 U	-	0.012 U	0.0008 U	-	0.019 U	0.02 U	0.005 U	0.0002 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00019 U	-	
Hexachlorobenzene	mg/L	0.0002 U	0.00019 U	-	0.00048 U	0.0008 U	-	0.00078 U	0.00078 U	0.0002 U	0.0002 U	-	0.00076 U	0.00043 U	0.00042 U	0.0002 U	0.00019 U	-	
Hexachlorobutadiene	mg/L	0.001 U	0.00096 U	-	0.0024 U	0.004 U	-	0.0039 U	0.0039 U	0.001 U	0.001 U	-	0.0038 U	0.0021 U	0.0021 U	0.001 U	0.00096 U	-	
Hexachlorocyclopentadiene	mg/L	0.005 U	0.0096 U	-	0.012 U	0.04 U	-	0.019 U	0.02 U	0.005 U	0.01 U	-	0.019 U	0.005 U	0.01 U	0.005 U	0.0096 U	-	
Hexachloroethane	mg/L	0.005 U	0.00096 U	-	0.012 U	0.004 U	-	0.019 U	0.02 U	0.005 U	0.001 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00096 U	-	
Indeno(1,2,3-cd)pyrene	mg/L	0.002 U	0.00019 U	-	0.0048 U	0.0008 U	-	0.0078 U	0.0078 U	0.002 U	0.0002 U	-	0.0076 U	0.0043 U	0.0042 U	0.002 U	0.00019 U	-	
Isophorone	mg/L	0.005 U	0.00096 U	-	0.012 U	0.004 U	-	0.019 U	0.02 U	0.005 U	0.001 U	-	0.019 U	0.005 U	0.01 U	0.005 U	0.00096 U	-	
Naphthalene	mg/L	0.005 U	0.00019 U	-	0.012 U	0.0008 U	-	0.019 U	0.02 U	0.005 U	0.0002 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00019 U	-	
Nitrobenzene	mg/L	0.003 U	0.00096 U	-	0.0071 U	0.004 U	-	0.012 U	0.012 U	0.003 U	0.001 U	-	0.011 U	0.0064 U	0.0062 U	0.003 U	0.00096 U	-	
N-Nitrosodi-n-propylamine	mg/L	0.005 U	0.00096 U	-	0.012 U	0.004 U	-	0.019 U	0.02 U	0.005 U	0.001 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00096 U	-	
N-Nitrosodiphenylamine	mg/L	0.005 U	0.00096 U	-	0.012 U	0.004 U	-	0.019 U	0.02 U	0.005 U	0.001 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00096 U	-	
Pentachlorophenol	mg/L	0.005 U	0.0096 U	-	0.012 U	0.004 U	-	0.019 U	0.02 U	0.005 U	0.01 U	-	0.019 U	0.005 U	0.01 U	0.005 U	0.0096 U	-	
Phenanthrene	mg/L	0.002 U	0.00019 U	-	0.0048 U	0.0008 U	-	0.0078 U	0.0078 U	0.002 U	0.0002 U	-	0.0076 U	0.0043 U	0.0042 U	0.002 U	0.00019 U	-	
Phenol	mg/L	0.005 U	0.00096 U	-	0.012 U	0.004 U	-	0.019 U	0.02 U	0.005 U	0.001 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00096 U	-	
Pyrene	mg/L	0.005 U	0.00019 U	-	0.012 U	0.0008 U	-	0.019 U	0.02 U	0.005 U	0.0002 U	-	0.019 U	0.011 U	0.01 U	0.005 U	0.00019 U	-	
Metals																			
Aluminum	mg/L	0.012	0.05 U	0.047 U	0.089	0.05 U	0.047 U	0.05 U	0.05 U	0.02	0.05 U	0.049 JB	0.11	0.05 U	0.05 U	0.052	0.65 ^{xab}	0.072 JB	
Aluminum (dissolved)	mg/L	-	-	--	-	0.05 U	--	-	-	-	-	--	-	-	-	-	0.069	--	
Antimony	mg/L	0.005 U	0.00066 J	0.0075 U	0.002 U	0.002 U	0.0075 U	0.002 U	0.002 U	0.005 U	0.002 U	0.0075 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.0075 U	
Antimony (dissolved)	mg/L	-	-	--	-	0.002 U	--	-	-	-	-	--	-	-	-	-	0.002 U	--	
Arsenic	mg/L	0.002 U	0.00098 J	0.0041 U	0.0073	0.008	0.0091 J	0.0061	0.0062	0.005	0.0035 J	0.0072 J	0.0031 J	0.0038 J	0.0037 J	0.02 ^{abc}	0.0052	0.0046 J	
Arsenic (dissolved)	mg/L	-	-	--	-	0.0084	--	-	-	-	-	--	-	-	-	-	0.0024 J	--	
Barium	mg/L	0.209	0.066	0.075 J	0.14	0.26	0.22	0.53	0.5	0.66	0.44	0.5	0.21	0.21	0.21	0.334	-	0.43	
Barium (dissolved)	mg/L	-	-	--	-	0.28	--	-	-	-	-	--	-	-	-	-	0.26	--	
Beryllium	mg/L	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 U	
Beryllium (dissolved)	mg/L	-	-	--	-	0.001 U	--	-	-	-	-	--	-	-	-	-	0.001 U	--	
Cadmium	mg/L	0.0005 U	0.001 U	0.00045 U	0.001 U	0.001 U	0.00045 U	0.001 U	0.001 U	0.0005 U	0.001 U	0.00045 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.001 U	0.00045 U	
Cadmium (dissolved)	mg/L	-	-	--	-	0.001 U	--	-	-	-	-	--	-	-	-	-	0.001 U	--	
Calcium	mg/L	116	96	94	110	120	140	150	150	142	140	140	130	150	150	143	150	170	
Calcium (dissolved)	mg/L	-	-	--	-	110	--	-	-	-	-	--	-	-	-	-	160	--	
Chromium	mg/L	0.005 U	0.005 U	0.00076 U	0.01 U	0.005 U	0.00076 U	0.01 U	0.01 U	0.005 U	0.005 U	0.00076 U	0.01 U	0.01 U	0.01 U	0.008	0.005 U	0.00097 J	
Chromium (dissolved)	mg/L	-	-	--	-	0.005 U	--	-	-	-	-	--	-	-	-	-	0.005 U	--	
Cobalt	mg/L	0.005 U	0.00054 J	0.0014 J	0.0015 J	0.00062 J	0.0008 J	0.0022 J	0.0021 J	0.005 U	0.0014	0.0015 J	0.0012 J	0.00068 J	0.00066 J	0.005 U	0.0012	0.00075 U	
Cobalt (dissolved)	mg/L	-	-	--	-	0.00051 J	--	-	-	-	-	--	-	-	-	-	0.0006 J	--	
Copper	mg/L	0.012	0.0028	0.0042 J	0.004 U	0.002 U	0.0035 U	0.004 U	0.004 U	0.005 U	0.002 U	0.0035 U	0.004 U	0.004 U	0.004 U	0.005 U	0.0017 J	0.0035 U	

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1212M			GHD-1213M			GHD-1214M			GHD-1215M			GHD-1216M			GHD-1217M			GHD-1218M																																
Sample ID:	GW-11223073-051021-DR-012			GW-11223073-052622-LK-004			GW-12602792-051723-BC-057			GW-17358-073018-DR-012			GW-11223073-060322-AC-058			GW-12602792-051723-DA-055			GW-17358-080118-DR-038			GW-17358-080118-DR-039			GW-11223073-051221-DR-033			GW-11223073-060322-AC-059			GW-12602792-051623-DR-052			GW-17358-080118-DR-035			GW-17358-052020-DR-018			GW-17358-052020-DR-019			GW-11223073-051221-DR-025			GW-11223073-052722-AC-011			GW-12602792-051623-DA-049		
Sample Date:	05/10/2021			05/26/2022			05/17/2023			07/30/2018			06/03/2022			05/17/2023			08/01/2018			08/01/2018			05/12/2021			06/03/2022			05/16/2023			08/01/2018			05/20/2020			05/20/2020			05/12/2021			05/27/2022			05/16/2023		
Sample Type:	Duplicate																		Duplicate																																
Aquifer	Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow			Shallow								
Parameters	Units																																																		
Potassium	mg/L	6.32	3.8	4.4	J				13	19	18		22	21	42.7	19	23		9.4	8.2	8.3	23.7	11	22																											
Potassium (dissolved)	mg/L	-	-	--					-	13	--		-	-	-	-	--		-	-	-	-	9.1	--																											
Selenium	mg/L	0.005 U	0.001 J	0.006 U					0.005 U	0.005 U	0.006 U		0.005 U	0.005 U	0.005 U	0.005 U	0.006 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.006 U																											
Selenium (dissolved)	mg/L	-	-	--					-	0.005 U	--		-	-	-	-	--		-	-	-	-	0.005 U	--																											
Silver	mg/L	0.0005 U	0.001 U	0.00062 U					0.0002 U	0.001 U	0.00062 U		0.0002 U	0.0002 U	0.0005 U	0.001 U	0.00062 U		0.0002 U	0.0002 U	0.0002 U	0.0005 U	0.001 U	0.00062 U																											
Silver (dissolved)	mg/L	-	-	--					-	0.001 U	--		-	-	-	-	--		-	-	-	-	0.001 U	--																											
Sodium	mg/L	82.5	36	49					210	140 B	110		160	150	127	120 B	110		94	110	110	92.1	88	110																											
Sodium (dissolved)	mg/L	-	-	--					-	180 B	--		-	-	-	-	--		-	-	-	-	100	--																											
Thallium	mg/L	0.002 U	0.00056 J	0.0053 J ^{abc}					0.002 U	0.001 U	0.0051 J ^{abc}		0.002 U	0.002 U	0.002 U	0.001 U	0.0027 U		0.002 U	0.002 U	0.002 U	0.002 U	0.001 U	0.0027 U																											
Thallium (dissolved)	mg/L	-	-	--					-	0.001 U	--		-	-	-	-	--		-	-	-	-	0.001 U	--																											
Vanadium	mg/L	0.005 U	0.005 U	0.0056 U					0.0021 J	0.0012 J	0.0056 U		0.0034 J	0.0034 J	0.005 U	0.0022 J	0.0056 U		0.0026 J	0.0018 J	0.0018 J	0.005 U	0.0039 J	0.0056 U																											
Vanadium (dissolved)	mg/L	-	-	--					-	0.005 U	--		-	-	-	-	--		-	-	-	-	0.0026 J	--																											
Zinc	mg/L	0.005	0.02 U	0.023 U					0.05 U	0.02 U	0.023 U		0.05 U	0.05 U	0.005 U	0.02 U	0.023 U		0.05 U	0.05 U	0.05 U	0.005 U	0.02 U	0.023 U																											
Zinc (dissolved)	mg/L	-	-	--					-	0.02 U	--		-	-	-	-	--		-	-	-	-	0.02 U	--																											
Gas																																																			
Ethane	mg/L	-	0.00062 JB	-					0.001 U	0.002	-		0.0023	0.0016 J	-	0.00094 J	-		0.001 UJ	-	-	-	0.0013	-																											
Ethene	mg/L	-	0.001 U	-					0.001 U	0.00058 J	-		0.001 U	0.0011 J	-	0.0005 J	-		0.001 UJ	-	-	-	0.001 U	-																											
Methane	mg/L	-	1.7	-					8.4	13	-		13	12 J	-	18	-		11 J	-	-	-	19	-																											
Field Parameters																																																			
Conductivity, field	mS/cm	1.086	0.645	-					1.55	1.43	-		1.71	1.71	1.67	1.366	-		1.17	1.45	1.45	1.339	1.353	-																											
Conductivity, field	uS/cm	-	-	764					-	-	102		-	-	-	-	1.41		-	-	-	-	158																												
Dissolved oxygen (DO), field	mg/L	0.63	0.61	0.7					0.03	0.45	0		0.07	0.07	0.39	0.63	0.24		0.03	0.17	0.17	2.22	0.68	0.01																											
Oxidation reduction potential (ORP), millivolts		-110	3.7	-125					-113	-115	-204		-88.8	-88.8	-158.1	-234.5	-88.8		-84.5	-121	-121	-126	-95.5	-201																											
pH, field	s.u.	6.14 ^{abc}	6.98	7.33					7.01	7.27	7.17		6.95	6.95	6.64	6.74	6.89		6.89	6.77	6.77	6.12 ^{abc}	6.82	6.86																											
Temperature, sample	Deg C	11.08	12.8	12.86					19	16.6	13.91		18.7	18.7	12.79	15.5	13.4		18.7	11.1	11.1	10.08	16.9	15.71																											
Turbidity, field	NTU	1.96	2.16	4.23					3.49	7.81	4.52		4.75	4.75	4.01	4.14	2.19		16.5	4.05	4.05	4.64	25.4	4.31																											

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1223M	GHD-1223M	GHD-1223M	GHD-1223M	GHD-1223M	GHD-1226M	GHD-1226M	GHD-1226M	GHD-1226M	GHD-1226M	GHD-1226M
Sample ID:	GW-17358-051420-DR-002	GW-17358-102220-DR-013	GW-11223073-060321-DA-045	GW-11223073-060321-DA-046	GW-11223073-060122-AC-029	GW-12602792-051123-LK-005	GW-17358-052620-DR-031	GW-17358-102120-DR-008	GW-11223073-060321-DA-052	GW-11223073-060122-AC-030	GW-12602792-051123-CM-006	GW-17358-052620-DR-030	GW-17358-102120-DR-009	GW-11223073-060321-DA-049	GW-11223073-060321-DA-050	GW-11223073-053122-AC-021	GW-12602792-051123-CM-004
Sample Date:	05/14/2020	10/22/2020	06/03/2021	06/03/2021	06/01/2022	05/11/2023	05/26/2020	10/21/2020	06/03/2021	06/01/2022	05/11/2023	05/26/2020	10/21/2020	06/03/2021	06/03/2021	05/31/2022	05/11/2023
Sample Type:	Duplicate													Duplicate			
Aquifer	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Parameters	Units																
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	mg/L	0.0031 J	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.0023 J	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.01 U	0.017 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (M	mg/L	0.08 U	0.5 U	0.2 U	0.5 U	0.05 U	0.083 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.08 U	0.5 U	0.2 U	0.5 U	0.05 U	0.083 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.08 U	0.5 U	0.2 U	0.5 U	0.05 U	0.083 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.08 U	0.5 U	0.2 U	0.5 U	0.05 U	0.083 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00022 J	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.04 U	0.25 U	0.1 U	0.25 U	0.005 U	0.0083 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.23 ^{ab}	1.4 ^{abc}	1.18 ^{abc}	0.84 ^{abc}	0.24 ^{ab}	0.12 ^{ab}	0.019	0.019	0.026	0.011	0.011	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.008 U	0.05 U	0.02 U	0.05 U	0.005 U	0.0083 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylenes	mg/L	-	-	0.04 U	-	-	-	-	-	0.002 U	-	-	-	0.002 U	-	-	-
Methyl acetate																	

Table 5

Sample Location:		GHD-1220M	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1223M	GHD-1223M	GHD-1223M	GHD-1223M	GHD-1223M	GHD-1226M	GHD-1226M	GHD-1226M	GHD-1226M	GHD-1226M	GHD-1226M	
Sample ID:		GW-17358-051420-DR-002	GW-17358-102220-DR-013	GW-11223073-060321-DA-045	GW-11223073-060321-DA-046	GW-11223073-060122-AC-029	GW-12602792-051123-LK-005	GW-17358-052620-DR-031	GW-17358-102120-DR-008	GW-11223073-060321-DA-052	GW-11223073-060122-AC-030	GW-12602792-051123-CM-006	GW-17358-052620-DR-030	GW-17358-102120-DR-009	GW-11223073-060321-DA-049	GW-11223073-060321-DA-050	GW-11223073-053122-AC-021	GW-12602792-051123-CM-004	
Sample Date:		05/14/2020	10/22/2020	06/03/2021	06/03/2021	06/01/2022	05/11/2023	05/26/2020	10/21/2020	06/03/2021	06/01/2022	05/11/2023	05/26/2020	10/21/2020	06/03/2021	06/03/2021	05/31/2022	05/11/2023	
Sample Type:		Duplicate																	
Aquifer		Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	
Parameters	Units																		
Acenaphthene	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.0002 U	-	
Acenaphthylene	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.0002 U	-	
Acetophenone	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.001 U	-	
Anthracene	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.0002 U	-	
Atrazine	mg/L	0.0031 U	-	0.003 U	0.0032 U	-	-	0.0031 U	-	0.003 U	-	-	0.0029 U	-	0.003 U	0.0031 U	0.002 U	-	
Benzaldehyde	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.002 U	-	
Benzo(a)anthracene	mg/L	0.001 U	-	0.001 U	0.0011 U	-	-	0.001 U	-	0.001 U	-	-	0.00097 U	-	0.001 U	0.001 U	0.0002 U	-	
Benzo(a)pyrene	mg/L	0.001 U	-	0.001 U	0.0011 U	-	-	0.001 U	-	0.001 U	-	-	0.00097 U	-	0.001 U	0.001 U	0.0002 U	-	
Benzo(b)fluoranthene	mg/L	0.001 U	-	0.001 U	0.0011 U	-	-	0.001 U	-	0.001 U	-	-	0.00097 U	-	0.001 U	0.001 U	0.0002 U	-	
Benzo(g,h,i)perylene	mg/L	0.001 U	-	0.001 U	0.0011 U	-	-	0.001 U	-	0.001 U	-	-	0.00097 U	-	0.001 U	0.001 U	0.0002 U	-	
Benzo(k)fluoranthene	mg/L	0.001 U	-	0.001 U	0.0011 U	-	-	0.001 U	-	0.001 U	-	-	0.00097 U	-	0.001 U	0.001 U	0.0002 U	-	
Biphenyl (1,1-Biphenyl)	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.001 U	-	
bis(2-Chloroethoxy)methane	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.001 U	-	
bis(2-Chloroethyl)ether	mg/L	0.001 U	-	0.001 U	0.0011 U	-	-	0.001 U	-	0.001 U	-	-	0.00097 U	-	0.001 U	0.001 U	0.001 U	-	
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.005 U	-	
Butyl benzylphthalate (BBP)	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.002 U	-	
Caprolactam	mg/L	0.01 U	-	0.01 U	0.011 U	-	-	0.01 U	-	0.01 U	-	-	0.0097 U	-	0.01 U	0.01 U	0.0012 JB	-	
Carbazole	mg/L	0.01 U	-	0.01 U	0.011 U	-	-	0.01 U	-	0.01 U	-	-	0.0097 U	-	0.01 U	0.01 U	0.001 U	-	
Chrysene	mg/L	0.001 U	-	0.001 U	0.0011 U	-	-	0.001 U	-	0.001 U	-	-	0.00097 U	-	0.001 U	0.001 U	0.0002 U	-	
Dibenz(a,h)anthracene	mg/L	0.0021 U	-	0.002 U	0.0022 U	-	-	0.002 U	-	0.002 U	-	-	0.0019 U	-	0.002 U	0.0021 U	0.0002 U	-	
Dibenzofuran	mg/L	0.0041 U	-	0.004 U	0.0043 U	-	-	0.0041 U	-	0.004 U	-	-	0.0039 U	-	0.004 U	0.0042 U	0.001 U	-	
Diethyl phthalate	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.005 U	-	
Dimethyl phthalate	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.002 U	-	
Di-n-butylphthalate (DBP)	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.005 U	-	
Di-n-octyl phthalate (DnOP)	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.002 U	-	
Fluoranthene	mg/L	0.001 U	-	0.001 U	0.0011 U	-	-	0.001 U	-	0.001 U	-	-	0.00097 U	-	0.001 U	0.001 U	0.0002 U	-	
Fluorene	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.0002 U	-	
Hexachlorobenzene	mg/L	0.00021 U	-	0.00002 U	0.00022 U	-	-	0.0002 U	-	0.0002 U	-	-	0.00019 U	-	0.0002 U	0.00021 U	0.0002 U	-	
Hexachlorobutadiene	mg/L	0.001 U	-	0.001 U	0.0011 U	-	-	0.001 U	-	0.001 U	-	-	0.00097 U	-	0.001 U	0.001 U	0.001 U	-	
Hexachlorocyclopentadiene	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.01 U	-	
Hexachloroethane	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.001 U	-	
Indeno(1,2,3-cd)pyrene	mg/L	0.0021 U	-	0.002 U	0.0022 U	-	-	0.002 U	-	0.002 U	-	-	0.0019 U	-	0.002 U	0.0021 U	0.0002 U	-	
Isophorone	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.001 U	-	
Naphthalene	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.0002 U	-	
Nitrobenzene	mg/L	0.0031 U	-	0.003 U	0.0032 U	-	-	0.0031 U	-	0.003 U	-	-	0.0029 U	-	0.003 U	0.0031 U	0.001 U	-	
N-Nitrosodi-n-propylamine	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.001 U	-	
N-Nitrosodiphenylamine	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.001 U	-	
Pentachlorophenol	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.01 U	-	
Phenanthrene	mg/L	0.0021 U	-	0.002 U	0.0022 U	-	-	0.002 U	-	0.002 U	-	-	0.0019 U	-	0.002 U	0.0021 U	0.0002 U	-	
Phenol	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.001 U	-	
Pyrene	mg/L	0.0052 U	-	0.005 U	0.0054 U	-	-	0.0051 U	-	0.005 U	-	-	0.0049 U	-	0.005 U	0.0052 U	0.0002 U	-	
Metals																			
Aluminum	mg/L	0.17	-	1.72 ^{xab}		2.2 ^{xab}		1.8 ^{xab}				-	0.05 U	-		0.01 U	0.13	-	
Aluminum (dissolved)	mg/L	-	-	0.082		0.1		0.079				-	-	-		-	-	-	
Antimony	mg/L	0.00075 J	-	0.005 U		0.0011 J		0.0011 J				-	0.002 U	-		0.005 U	0.002 U	-	
Antimony (dissolved)	mg/L	-	-	0.005 U		0.0012 J		0.00097 J				-	-	-		-	-	0.0075 U	
Arsenic	mg/L	0.0013 J	-	0.021 ^{abc}		0.014 ^{abc}						-	0.005 U	-		0.002 U	0.0026 J	-	
Arsenic (dissolved)	mg/L	-	-	0.018 ^{abc}		0.017 ^{abc}		0.0056				-	-	-		-	-	-	
Barium	mg/L	0.042 J	-	0.086		0.088		0.029				-	0.069 J	-		0.13	-	-	
Barium (dissolved)	mg/L	-	-	0.07		0.07		0.018				-	-	-		-	-	-	
Beryllium	mg/L	0.001 U	-	0.001 U		0.001 U		0.001 U				-	0.001 U	-		0.001 U	0.001 U	-	
Beryllium (dissolved)	mg/L	-	-	0.001 U		0.001 U		0.001 U				-	-	-		-	-	0.0006 U	
Cadmium	mg/L	0.001 U	-	0.0005 U		0.001 U		0.001 U				-	0.001 U	-		0.0005 U	0.001 U	-	
Cadmium (dissolved)	mg/L	-	-	0.0005 U		0.001 U		0.001 U				-	-	-		-	-	0.00045 U	
Calcium	mg/L	42	-	75.7		77		74				-	110	-		106	82	-	
Calcium (dissolved)	mg/L	-	-	75.4		74		74				-	-	-		-	-	-	
Chromium	mg/L	0.01 U	-	0.005		0.0043		0.0032 J				-	0.01 U	-		0.005 U	0.005 U	-	
Chromium (dissolved)	mg/L	-	-	0.005 U		0.0015 J		0.005 U				-	-	-		-	-	-	
Cobalt	mg/L	0.0024 J	-	0.005 U		0.0046		0.0014				-	0.0015 J	-		0.005 U	0.0034	-	
Cobalt (dissolved)	mg/L	-	-	0.005 U		0.0038		0.001 U				-	-	-		-	-	-	
Copper	mg/L	0.0041	-	0.013		0.0097		0.0056				-	0.0017 J	-		0.005 U	0.0017 J	-	
Copper (dissolved)	mg/L	-	-	0.009		0.0072		0.003				-	-	-		-	-	-	
Iron	mg/L	0.7	-	2.22 ^{xab}		3.2 ^{xab}		2.3 ^{xab}				-	0.16 J	-		0.29	1.3 ^{xab}	-	
Iron (dissolved)	mg/L	-	-	0.28		0.39		0.14				-	-	-		-	1.1 ^{xab}	-	
Lead	mg/L	0.003 U	-	0.003		0.0023		0.0012				-	0.003 U	-		0.003 U	0.0035	-	
Lead (dissolved)	mg/L	-	-	0.003 U		0.001 U		0.001 U				-	-	-		-	-	-	
Magnesium	mg/L	7.1	-	14		15		8.9				-	17	-		17.4	21	-	
Magnesium (dissolved)	mg/L	-	-	13.5		14		8.7				-	-	-		-	-	-	
Manganese	mg/L	0.39	-	0.532		0.58		0.26				-	0.49	-		0.404	0.84 ^{xab}	-	
Manganese (dissolved)	mg/L	-	-	0.49		0.53		0.051				-	-	-		-	0.72 ^{xab}	-	
Mercury	mg/L	0.0002 U	-	0.0002 U		0.0002 U		0.0002 U				-	0.0002 U	-		0.0002 U	0.0002 U	-	
Mercury (dissolved)	mg/L	-	-	0.0002 U		0.0002 U		0.0002 U				-	-	-		-	-	-	
Nickel	mg/L	0.0099 J	-	0.02		0.021		0.0042				-	0.0053 J	-		0.005 U	0.0043	-	
Nickel (dissolved)	mg/L	-	-	0.018		0.018		0.0018 J				-	-	-		-	-	-	

Table 5

Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1220M	GHD-1223M	GHD-1223M	GHD-1223M	GHD-1223M	GHD-1223M	GHD-1226M	GHD-1226M	GHD-1226M	GHD-1226M	GHD-1226M	GHD-1226M
Sample ID:	GW-17358-051420-DR-002	GW-17358-102220-DR-013	GW-11223073-060321-DA-045	GW-11223073-060321-DA-046	GW-11223073-060122-AC-029	GW-12602792-051123-LK-005	GW-17358-052620-DR-031	GW-17358-102120-DR-008	GW-11223073-060321-DA-052	GW-11223073-060122-AC-030	GW-12602792-051123-CM-006	GW-17358-052620-DR-030	GW-17358-102120-DR-009	GW-11223073-060321-DA-049	GW-11223073-060321-DA-050	GW-11223073-053122-AC-021	GW-12602792-051123-CM-004
Sample Date:	05/14/2020	10/22/2020	06/03/2021	06/03/2021	06/01/2022	05/11/2023	05/26/2020	10/21/2020	06/03/2021	06/01/2022	05/11/2023	05/26/2020	10/21/2020	06/03/2021	06/03/2021	05/31/2022	05/11/2023
Sample Type:				Duplicate											Duplicate		
Aquifer	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow-PCE Area	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Parameters	Units																
Potassium	mg/L	3.4	-	5.84	5.9	2.1	-	6.6	-	6.36	3.9	-	-	6.1	-	3.75	5.7
Potassium (dissolved)	mg/L	-	-	5.71	5.5	1.6	-	-	-	-	-	-	-	-	-	-	--
Selenium	mg/L	0.0055 ^{ac}	-	0.005 U	0.0016 J	0.0033 J	-	0.0015 J	-	0.005 U	0.005 U	-	-	0.005 U	-	0.005 U	0.006 U
Selenium (dissolved)	mg/L	-	-	0.005 U	0.0021 J	0.0038 J	-	-	-	-	-	-	-	-	-	-	--
Silver	mg/L	0.0002 U	-	0.0005 U	0.001 U	0.001 U	-	0.0002 U	-	0.0005 U	0.001 U	-	-	0.0002 U	-	0.001 U	0.00062 U
Silver (dissolved)	mg/L	-	-	0.0005 U	0.001 U	0.001 U	-	-	-	-	-	-	-	0.0005 U	-	0.001 U	--
Sodium	mg/L	250 ^a	-	205	190	45	-	83	-	41.9	60	-	-	18	-	10.5	32
Sodium (dissolved)	mg/L	-	-	197	210	50	-	-	-	-	-	-	-	-	-	-	--
Thallium	mg/L	0.00039 J	-	0.002 U	0.001 U	0.001 U	-	0.002 U	-	0.002 U	0.001 U	-	-	0.002 U	-	0.001 U	0.0027 U
Thallium (dissolved)	mg/L	-	-	0.002 U	0.001 U	0.001 U	-	-	-	-	-	-	-	-	-	-	--
Vanadium	mg/L	0.004 U	-	0.026 ^a	0.02 ^a	0.011 ^a	-	0.004 U	-	0.005 U	0.005 U	-	-	0.004 U	-	0.005 U	0.0056 U
Vanadium (dissolved)	mg/L	-	-	0.019 ^a	0.019 ^a	0.0074 ^a	-	-	-	-	-	-	-	-	-	-	--
Zinc	mg/L	0.05 U	-	0.015	0.03 B	0.02 U	-	0.05 U	-	0.005 U	0.02 U	-	-	0.05 U	-	0.022	0.023 U
Zinc (dissolved)	mg/L	-	-	0.008	0.02 U	0.02 U	-	-	-	-	-	-	-	-	-	-	--
Gas																	
Ethane	mg/L	-	-	-	-	0.0004 J	-	-	-	-	0.00031 J	-	-	-	-	0.00051 J	-
Ethene	mg/L	-	-	-	-	0.00082 J	-	-	-	-	0.00028 J	-	-	-	-	0.001 U	-
Methane	mg/L	-	-	-	-	0.52	-	-	-	-	0.23	-	-	-	-	0.035	-
Field Parameters																	
Conductivity, field	mS/cm	1.37	-	1.26	1.26	0.64	-	0.98	-	0.79	0.815	-	-	0.7	-	0.57	-
Conductivity, field	uS/cm	-	-	-	-	-	652	-	-	-	-	985	-	-	-	-	1090
Dissolved oxygen (DO), field	mg/L	0.26	-	0.74	0.74	0.97	0.4	0.3	-	0.05	0.46	0	-	0.14	-	0	0
Oxidation reduction potential (ORP), millivolts		111	-	186.9	186.9	58.6	53	11	-	101.1	-88.1	-150	-	43	-	-104.9	-76
pH, field	s.u.	7.56	-	7.25	7.25	7.74	7.31	7.35	-	7.02	7.59	7.41	-	7.13	-	7.22	7.2
Temperature, sample	Deg C	10.6	-	16.34	16.34	19.3	19.82	13.4	-	16.02	17.1	19.28	-	14	-	15.36	16.9
Turbidity, field	NTU	4.9	-	103.5	103.5	21.6	4.56	2.74	-	2.85	2.79	4.43	-	1.65	-	4.37	4.76

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1229M	GHD-1229M	GHD-1229M	GHD-1229M	GHD-1229M	IG-1	IG-1	IG-1	IG-1	IG-1	MH-102	Sump-1	Sump-2	Sump-3	Sump-4
Sample ID:	GW-17358-052120-DR-028	GW-17358-102020-DR-001	GW-11223073-052821-DR-042	GW-11223073-053122-AC-025	GW-12602792-051223-LK-015	GW-17358-051420-DR-001	GW-17358-102220-DR-016	GW-11223073-060321-DA-051	GW-11223073-053122-AC-020	GW-12602792-051123-CM-002	W-11223073-102121-AM-005	W-11223073-102121-AM-001	W-11223073-102121-AM-002	W-11223073-102121-AM-003	W-11223073-102121-AM-004
Sample Date:	05/21/2020	10/20/2020	05/28/2021	05/31/2022	05/12/2023	05/14/2020	10/22/2020	06/03/2021	05/31/2022	05/11/2023	10/21/2021	10/21/2021	10/21/2021	10/21/2021	10/21/2021
Sample Type:															
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow					
Parameters	Units														
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.00055 J	0.001 J+	0.001 U	0.00087 J	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.0033 U	0.001 U	0.002 U	0.01 U	-	0.001 U	0.001 U	0.002 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromoethane (Ethylene dibron	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.0011	0.0023 J	0.001	0.0016	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (M	mg/L	0.01 U	0.033 U	0.01 U	0.01 U	0.05 U	-	0.01	0.03	0.0048 J	0.012	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.01 U	0.033 U	0.01 U	0.01 U	0.05 U	-	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-pentanone (Methyl isobu	mg/L	0.01 U	0.033 U	0.01 U	0.01 U	0.05 U	-	0.001 J	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.01 U	0.033 U	0.01 U	0.01 U	0.05 U	-	0.01 U	0.012	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.002	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.00044 J	0.005 U	0.005 U	0.005 U	0.005 U
Carbon disulfide	mg/L	0.005 U	0.017 U	0.005 U	0.001 U	0.005 U	-	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	mg/L	0.049	0.069 J+	0.032	0.039	0.026	0.0015	0.002	0.001	0.00064 J	0.001 U	0.018	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	--	--	--	--
Dibromochloromethane	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U
m&p-Xylenes	mg/L	-	-	0.002 U	-	-	-	-	0.002 U	-	-	0.002 U	0.002 U	0.002 U	0.002 U
Methyl acetate	mg/L	0.01 U	0.033 U	0.001 U	0.01 U	0.05 U	-	0.01 U	0.001 U	0.01 U	0.01 U	--	--	--	--
Methyl cyclohexane	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U	0.001 U	0.001 U	0.001 U	--	--	--	--
Methyl tert butyl ether (MTBE)	mg/L	0.001 U	0.0033 U	0.005 U	0.001 U	0.005 U	-	0.001 U	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.017 U	0.005 U	0.005 U	0.025 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
o-Xylene	mg/L	-	-	0.001 U	-	-	-	-	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Styrene	mg/L	0.001 U	0.0033 U	0.001 U	0.001 U	0.005 U	-	0.001 U							

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1229M	GHD-1229M	GHD-1229M	GHD-1229M	GHD-1229M	IG-1	IG-1	IG-1	IG-1	IG-1	MH-102	Sump-1	Sump-2	Sump-3	Sump-4
Sample ID:	GW-17358-052120-DR-028	GW-17358-102020-DR-001	GW-11223073-052821-DR-042	GW-11223073-053122-AC-025	GW-12602792-051223-LK-015	GW-17358-051420-DR-001	GW-17358-102220-DR-016	GW-11223073-060321-DA-051	GW-11223073-053122-AC-020	GW-12602792-051123-CM-002	W-11223073-102121-AM-005	W-11223073-102121-AM-001	W-11223073-102121-AM-002	W-11223073-102121-AM-003	W-11223073-102121-AM-004
Sample Date:	05/21/2020	10/20/2020	05/28/2021	05/31/2022	05/12/2023	05/14/2020	10/22/2020	06/03/2021	05/31/2022	05/11/2023	10/21/2021	10/21/2021	10/21/2021	10/21/2021	10/21/2021
Sample Type:															
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow					
Parameters	Units														
Acenaphthene	mg/L	0.005 U	-	0.005 U	0.00021 U	-	-	0.005 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Acenaphthylene	mg/L	0.005 U	-	0.005 U	0.00021 U	-	-	0.005 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Acetophenone	mg/L	0.005 U	-	0.005 U	0.001 U	-	-	0.005 U	0.001 U	-	--	--	--	--	--
Anthracene	mg/L	0.005 U	-	0.005 U	0.00021 U	-	-	0.005 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Atrazine	mg/L	0.003 U	-	0.003 U	0.0021 U	-	-	0.003 U	0.002 U	-	--	--	--	--	--
Benzaldehyde	mg/L	0.005 U	-	0.005 U	0.0021 U	-	-	0.005 U	0.002 U	-	--	--	--	--	--
Benzo(a)anthracene	mg/L	0.001 U	-	0.001 U	0.00021 U	-	-	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Benzo(a)pyrene	mg/L	0.001 U	-	0.001 U	0.00021 U	-	-	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Benzo(b)fluoranthene	mg/L	0.001 U	-	0.001 U	0.00021 U	-	-	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Benzo(g,h,i)perylene	mg/L	0.001 U	-	0.001 U	0.00021 U	-	-	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Benzo(k)fluoranthene	mg/L	0.001 U	-	0.001 U	0.00021 U	-	-	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Biphenyl (1,1-Biphenyl)	mg/L	0.005 U	-	0.005 U	0.001 U	-	-	0.005 U	0.001 U	-	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	0.005 U	-	0.005 U	0.001 U	-	-	0.005 U	0.001 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
bis(2-Chloroethyl)ether	mg/L	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U	0.001 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.005 U	-	0.005 U	0.0052 U	-	-	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Butyl benzylphthalate (BBP)	mg/L	0.005 U	-	0.005 U	0.0021 U	-	-	0.005 U	0.002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Caprolactam	mg/L	R	-	0.01 U	0.0012 JB	-	-	0.01 U	0.0013 JB	-	--	--	--	--	--
Carbazole	mg/L	0.01 U	-	0.01 U	0.001 U	-	-	0.01 U	0.001 U	-	--	--	--	--	--
Chrysene	mg/L	0.001 U	-	0.001 U	0.00021 U	-	-	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibenz(a,h)anthracene	mg/L	0.002 U	-	0.002 U	0.00021 U	-	-	0.002 U	0.0002 U	-	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Dibenzofuran	mg/L	0.004 U	-	0.004 U	0.001 U	-	-	0.004 U	0.001 U	-	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Diethyl phthalate	mg/L	0.005 U	-	0.005 U	0.0052 U	-	-	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dimethyl phthalate	mg/L	0.005 U	-	0.005 U	0.0021 U	-	-	0.005 U	0.002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Di-n-butylphthalate (DBP)	mg/L	0.005 U	-	0.005 U	0.0052 U	-	-	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Di-n-octyl phthalate (DnOP)	mg/L	0.005 U	-	0.005 U	0.0021 U	-	-	0.005 U	0.002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Fluoranthene	mg/L	0.001 U	-	0.001 U	0.00021 U	-	-	0.001 U	0.0002 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Fluorene	mg/L	0.005 U	-	0.005 U	0.00021 U	-	-	0.005 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Hexachlorobenzene	mg/L	0.0002 U	-	0.0002 U	0.00021 U	-	-	0.0002 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Hexachlorobutadiene	mg/L	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U	0.001 U	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hexachlorocyclopentadiene	mg/L	0.005 U	-	0.005 U	0.01 U	-	-	0.005 U	0.01 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Hexachloroethane	mg/L	0.005 U	-	0.005 U	0.001 U	-	-	0.005 U	0.001 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Indeno(1,2,3-cd)pyrene	mg/L	0.002 U	-	0.002 U	0.00021 U	-	-	0.002 U	0.0002 U	-	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Isophorone	mg/L	0.005 U	-	0.005 U	0.001 U	-	-	0.005 U	0.001 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	0.005 U	-	0.005 U	0.00021 U	-	-	0.005 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Nitrobenzene	mg/L	0.003 U	-	0.003 U	0.001 U	-	-	0.003 U	0.001 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
N-Nitrosodi-n-propylamine	mg/L	0.005 U	-	0.005 U	0.001 U	-	-	0.005 U	0.001 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
N-Nitrosodiphenylamine	mg/L	0.005 U	-	0.005 U	0.001 U	-	-	0.005 U	0.001 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Pentachlorophenol	mg/L	0.005 U	-	0.005 U	0.01 U	-	-	0.005 U	0.01 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Phenanthrene	mg/L	0.002 U	-	0.002 U	0.00021 U	-	-	0.002 U	0.0002 U	-	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Phenol	mg/L	0.005 U	-	0.005 U	0.001 U	-	-	0.005 U	0.011	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Pyrene	mg/L	0.005 U	-	0.005 U	0.00021 U	-	-	0.005 U	0.0002 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Metals															
Aluminum	mg/L	0.05 U	-	0.01 U	0.05 U	0.047 U	-	-	1 ^{xab}	0.47 ^{xab}	0.45 ^{xab}	-	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Antimony	mg/L	0.002 U	-	0.005 U	0.002 U	0.0075 U	-	-	0.005 U	0.0007 J	0.0075 U	-	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Arsenic	mg/L	0.0027 J	-	0.002	0.0017 J	0.0041 U	-	-	0.008	0.0031 J	0.0041 U	-	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Barium	mg/L	0.15	-	0.08	0.083	0.098 J	-	-	0.022	0.027	0.016 J	-	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Beryllium	mg/L	0.001 U	-	0.001 U	0.001 U	0.0006 U	-	-	0.001 U	0.001 U	0.0006 U	-	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Cadmium	mg/L	0.001 U	-	0.0005 U	0.001 U	0.00045 U	-	-	0.0005 U	0.001 U	0.00045 U	-	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Calcium	mg/L	82	-	66.4	89	100	-	-	61.5	55	24	-	-	-	-
Calcium (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Chromium	mg/L	0.01 U	-	0.005 U	0.005 U	0.001 J	-	-	0.005 U	0.005 U	0.00076 U	-	-	-	-
Chromium (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Cobalt	mg/L	0.0025 J	-	0.005 U	0.0012	0.00082 J	-	-	0.005 U	0.00019 J	0.00075 U	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Copper	mg/L	0.0021 J	-	0.005 U	0.002 U	0.0035 U	-	-	0.01	0.0024	0.0076 J	-	-	-	-
Copper (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Iron	mg/L	1.2 ^{xab}	-	0.48	0.45	0.95	-	-	0.02 U	0.049 J	0.083 U	-	-	-	-
Iron (dissolved)	mg/L	-	-	-	0.41	--	-	-	-	0.1 U	--	-	-	-	-
Lead	mg/L	0.003 U	-	0.003 U	0.001 U	0.0028 U	-	-	0.003 U	0.001 U	0.0028 U	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Magnesium	mg/L	16	-	12.7	14	16	-	-	0.5 U	1 U	0.26 U	-	-	-	-
Magnesium (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Manganese	mg/L	0.37	-	0.369	0.43	0.39	-	-	0.005 U	0.01 U	0.0026 U	-	-	-	-
Manganese (dissolved)	mg/L	-	-	-	0.42	--	-	-	-	0.01 U	--	-	-	-	-
Mercury	mg/L	0.0002 U	-	0.0002 U	0.0002 U	0.00013 U	-	-	0.0002 U	0.0002 U	0.00013 U	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-
Nickel	mg/L	0.012 J	-	0.006	0.0067	0.0048 J	-	-	0.015	0.0081	0.0082 J	-	-	-	-
Nickel (dissolved)	mg/L	-	-	-	-	--	-	-	-	--	-	-	-	-	-

Table 5
Groundwater Analytical Results Summary - 2018-2023
2023 Annual Groundwater Sampling
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Sample Location:	GHD-1229M	GHD-1229M	GHD-1229M	GHD-1229M	GHD-1229M	IG-1	IG-1	IG-1	IG-1	IG-1	MH-102	Sump-1	Sump-2	Sump-3	Sump-4
Sample ID:	GW-17358-052120-DR-028	GW-17358-102020-DR-001	GW-11223073-052821-DR-042	GW-11223073-053122-AC-025	GW-12602792-051223-LK-015	GW-17358-051420-DR-001	GW-17358-102220-DR-016	GW-11223073-060321-DA-051	GW-11223073-053122-AC-020	GW-12602792-051123-CM-002	W-11223073-102121-AM-005	W-11223073-102121-AM-001	W-11223073-102121-AM-002	W-11223073-102121-AM-003	W-11223073-102121-AM-004
Sample Date:	05/21/2020	10/20/2020	05/28/2021	05/31/2022	05/12/2023	05/14/2020	10/22/2020	06/03/2021	05/31/2022	05/11/2023	10/21/2021	10/21/2021	10/21/2021	10/21/2021	10/21/2021
Sample Type:															
Aquifer	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow					
Parameters	Units														
Potassium	mg/L	11	-	7.38	4.8	3.7	J	-	23	20	-	-	-	-	-
Potassium (dissolved)	mg/L	-	-	-	-	--		-	-	--	-	-	-	-	-
Selenium	mg/L	0.0012	J	-	0.005	U		0.005	U	0.006	U	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-		-	-	-	-	-	-	-	-
Silver	mg/L	0.0002	U	-	0.0005	U		0.0005	U	0.001	U	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-		-	-	-	-	-	-	-	-
Sodium	mg/L	200	-	122	77	83	-	56.2	92	46	-	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	--		-	-	--	-	-	-	-	-
Thallium	mg/L	0.002	U	-	0.002	U		0.002	U	0.001	U	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-		-	-	--	-	-	-	-	-
Vanadium	mg/L	0.004	U	-	0.005	U		0.022 ^a	0.0025	J	0.0056	U	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-		-	-	--	-	-	-	-	-
Zinc	mg/L	0.05	U	-	0.005	U		0.005	U	0.02	U	-	-	-	-
Zinc (dissolved)	mg/L	-	-	-	-	--		-	-	--	-	-	-	-	-
Gas															
Ethane	mg/L	-	-	-	0.00082	J		-	0.001	-	-	-	-	-	-
Ethene	mg/L	-	-	-	0.002	-		-	0.0019	-	-	-	-	-	-
Methane	mg/L	-	-	-	1.2	-		-	0.12	-	-	-	-	-	-
Field Parameters															
Conductivity, field	mS/cm	1.42	-	1.08	0.843	-	1.15	-	1.02	1.171	-	-	-	-	-
Conductivity, field	uS/cm	-	-	-	-	797	-	-	-	394	-	-	-	-	-
Dissolved oxygen (DO), field	mg/L	0.14	-	0.22	0.03	0.17	0.28	-	0.15	0.36	0	-	-	-	-
Oxidation reduction potential (ORP), millivolts		-46	-	-53	-78.1	-93	39.1	-	-111.4	21.1	-129	-	-	-	-
pH, field	s.u.	7.33	-	7.31	7.23	7.32	11.45 ^{abc}	-	11.48 ^{abc}	12.28 ^{abc}	11.21 ^{abc}	-	-	-	-
Temperature, sample	Deg C	10.6	-	11.2	15.3	19.07	10.3	-	18	17.5	16.71	-	-	-	-
Turbidity, field	NTU	3.18	-	0.77	0.59	4.42	1.35	-	0.38	3.97	1.88	-	-	-	-

Notes:
(1) EGLE - Michigan Department of Environment, Great Lakes and Energy (EGLE) Generic cleanup criteria for residential and nonresidential category, administrative rule R 299.44 effective December 30, 2013, pursuant to Part 201 of 1994 PA 451 as amended
(2) Facility-Specific Background Concentrations (FSBCs).
(3) A hardness of 391.25 mg/L CaCo3 and pH of 7.25 was used, where required, to calculate a Facility-specific groundwater surface water interface protection (GSIP) criterion

U - Not detected at the associated reporting limit.
U - Not detected at the associated method detection limit for 2023 Metals Results
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.
R - Rejected.
B - Result detected in associated method blank.
E - Result exceeded calibration range.
H - Sample was prepped or analyzed beyond the specified holding time.

Blanks - Not Available or Not Applicable
ID - Insufficient Data to develop criterion.
NLV - Hazardous substance is Not Likely to Volatilize under most conditions.

300 ^a	- boxed cell denotes exceedance of cleanup criteria screening level identified by superscript.
1.7 ^{xab}	- boxed cell denotes exceedance of site Background (x) and cleanup criteria screening level identified by superscript.
1.4 ^{abc}	- boxed/highlighted cell denotes exceedance of cleanup criteria screening level identified by superscript and GSI.

Additional Sampling Plan
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Discussion Area / Monitoring Locations	Groundwater Zone	Rationale for Sampling* (Other than Downgradient Perimeter)	Updated Rationale (2021 through 2023 Results)	Proposed sampling
Interior (Former Building Footprint/Apron) - Southwest <i>Rationale: Downgradient Perimeter</i>				
CRA-729M	Shallow	Confirm metals due to elevated turbidity	Vanadium and Chromium GSI exceedances, sporadic. Arsenic- consistent GSI exceedance - downgradient wells below GSI criteria.	NA
CRA-729I	Intermediate	Vinyl chloride GSI exceedance. Confirm acetone, MEK due to well repair.	Vinyl chloride GSI exceedance, down gradient wells below GSI criteria Thallium GSI exceedance in 2023 only No acetone exceedance	Thallium resample
CRA-740M	Shallow	Confirm metals due to elevated turbidity. Confirm acetone, MEK due to well repair.	Vanadium and Copper GSI exceedances, sporadic. Arsenic- consistent GSI exceedance - downgradient wells below GSI criteria.	NA
CRA-740I	Intermediate	Confirm metals due to elevated turbidity. Confirm acetone, MEK due to well repair.	Arsenic- consistent GSI exceedance - downgradient wells below GSI criteria. Thallium GSI exceedance in 2023 only No acetone or MEK exceedances	Thallium resample
Perimeter (Northeast) <i>Rationale: North side of Former Building Footprint - groundwater flow direction</i>				
CRA-320M	Shallow	-	No criteria exceedances	NA
CRA-342M	Shallow	-	No GSI exceedances	NA
CRA-799M	Shallow	-	No GSI exceedances	NA
GHD-984M	Shallow	-	No GSI exceedances	NA
Perimeter (West) <i>Rationale: Downgradient Perimeter, south of Perimeter Storm Sewer Outfall.</i>				
CRA-725M	Shallow	Vinyl chloride GSI exceedance upgradient at CRA-729I	No GSI exceedances	NA
CRA-725I	Intermediate		No criteria exceedances	NA
A (proposed, not installed due to utilities)	Intermediate		-	-
Perimeter (South) <i>Rationale: Downgradient Perimeter, south of Perimeter Storm Sewer Outfall.</i>				
GHD-604I	Intermediate	Vinyl chloride GSI exceedance upgradient at CRA-729I.	No criteria exceedances	NA
CRA-604M	Shallow		CRA-604M dry in 2022 and 2023	NA
CRA-605M	Intermediate	-	Thallium GSI exceedance in 2023 only	Thallium resample
CRA-884M	Shallow	-	No GSI exceedances	NA
CRA-887I	Intermediate	-	No criteria exceedances	NA
CRA-887M	Shallow	-	No GSI exceedances	NA
CRA-890I(S)	Intermediate	Arsenic GSI exceedance	No GSI exceedances	NA
CRA-890I(D)	Intermediate	Arsenic GSI exceedance	Arsenic GSI exceedance - decreasing	NA
CRA-962M	Shallow	-	No criteria exceedances	NA
GHD-1196I	Intermediate	-	Arsenic GSI exceedance -consistent	NA
GHD-1196M	Shallow	-	No GSI exceedances	NA
GHD-1197M	Shallow	-	Dry	NA
CRA-889I	Intermediate	Chromium GSI exceedance	No criteria exceedances	NA
CRA-889M	Shallow	-	Arsenic GSI exceedance in 2023 only Downgradient shallow wells do not exceed arsenic GSI criteria	NA

Additional Sampling Plan
Former Willow Run Powertrain Plant
Ypsilanti, Michigan

Discussion Area / Monitoring Locations	Groundwater Zone	Rationale for Sampling* (Other than Downgradient Perimeter)	Updated Rationale (2021 through 2023 Results)	Proposed sampling
Perimeter (East/Southeast) - French Drain and Building 19 Areas				
<i>Rationale: Flow Off-Site to WCAA Storm Sewers if Drain Off (Lines 1-4); Bldg 19:</i>				
MH-102	n/a	Concentration trends in French drain	System off since 2022	NA
- French Drain Line 1				
Sump-1	Shallow+ Intermediate	Concentration trends in Line 1	System off since 2022	NA
CRA-343M	Shallow	Water Quality on Site side of Line 1 (Can Line 1 be turned off?)	Arsenic GSI exceedance in 2022 only, sporadic along eastern boundary, nearby wells below criteria	NA
CRA-217M	Shallow		No GSI exceedances	NA
GHD-1215M	Shallow		Arsenic GSI exceedance in 2021 only, sporadic along eastern boundary, nearby wells below criteria	NA
GHD-1214M	Shallow		No GSI exceedances	NA
CRA-322M	Shallow (upper)	Water quality on WCAA side of Line 1	No GSI exceedances	NA
GHD-322ML	Shallow (lower)		No GSI exceedances	NA
CRA-615M	Shallow (upper)		No GSI exceedances	NA
CRA-837ML	Shallow (lower)		Arsenic GSI exceedance - sporadic along eastern property boundary, surrounding/wells below GSI criteria	NA
- French Drain Line 2				
Sump-2	Shallow+ Intermediate	Concentration trends in Line 2	System off since 2022	NA
GHD-1213M	Shallow	Water quality on Site side of Line 2 (Can Line 2 be turned off?)	Thallium GSI exceedance in 2023 only System off for extended period.	Thallium resample
CRA-613M	Shallow (upper)	Water quality on WCAA side of Line 2	Selenium GSI exceedance in 2022 only, not in 2023	NA
CRA-827ML	Shallow (lower)		Arsenic GSI exceedance - sporadic along eastern property boundary, surrounding/wells below GSI criteria Thallium GSI exceedance in 2023 only	Thallium resample
- French Drain Line 4				
Sump-4	Shallow+ Intermediate	Concentration trends in Line 4	System off since 2022	NA
CRA-974M	Shallow	Water quality on Site side of Line 4 (Can Line 4 be turned off?)	Vinyl chloride GSI exceedance 2021-2023, downgradient wells below GSI criteria Thallium GSI exceedance in 2023 only	Thallium resample
GHD-1212M		Shallow	Thallium GSI exceedance in 2023 only	Thallium resample
GHD-1005M	Shallow	Water quality on WCAA side of Line 4	Arsenic GSI exceedance - sporadic along eastern property boundary, surrounding/wells below GSI criteria	Thallium resample
GHD-1211M		Shallow	Thallium GSI exceedance in 2023 only	Thallium resample
- French Drain Line 3 and Building 19 (PCE Area)				
Sump-3	Shallow+ Intermediate	Concentration trends in Line 3	System off since 2022	NA
CRA-756M	Shallow	Water quality on Site side of Line 3. (CVOC Concentrations)	Vinyl chloride GSI exceedance 2021, but below in 2022 and 2023	NA
CRA-806M	Shallow		Vinyl chloride GSI exceedance 2021-2023	Add to PCE Area Monitoring List
GHD-1229M	Shallow		Vinyl chloride GSI exceedance 2021-2023	Add to PCE Area Monitoring List
CRA-106M	Shallow	Downgradient Perimeter of Building 19 Area VOC, SVOC, metals COCs	Several VOC GSI exceedances 2021-2023 Arsenic GSI exceedance, surrounding and downgradient wells below GSI criteria	Add to PCE Area Monitoring List
IG-1	Shallow		No GSI exceedances other than pH	NA
GHD-1226M	Shallow		Copper GSI exceedance in 2021 (in Dup only) below in 2022 and 2023, surrounding wells below GSI	NA
CRA-858I	Intermediate	858I: several COCs.	No GSI exceedances	NA
CRA-711I	Intermediate		Arsenic GSI exceedance in 2021 below in 2022 and 2023, surrounding wells below GSI	NA
CRA-609M	Shallow		No GSI exceedances	NA

Notes

*Per May 2021 Comprehensive Groundwater Quality Update Report
Thallium analysis utilizing method 6020A and SW846/6010D

Attachment 1

**Groundwater Concentration Figures -
2021-2022**

