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AREA 6 RESPONSE ACTIVITY PLAN North Kent Study Area

DRAFT

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PREPARED FOR:
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ACRONYMS

AMSL	Above Mean Sea Level
BGS	Below Ground Surface
CD	Consent Decree
CFS	Cubic Feet per Second
COVID-19	Coronavirus Disease 2019
CSM	Conceptual Site Model
DoD	United States Department of Defense
DWC	Part 201 Generic Groundwater Cleanup Criteria Protective of Drinking Water for Residential Land Uses
EGL	Michigan Department of Environmental, Great Lakes and Energy
EPA	United States Environmental Protection Agency
GIS	Geographic Information Systems
GSI	Groundwater-Surface Water Interface
HSDS	House Street Disposal Site
HUC	Hydrologic Unit Code
ID	Identification
MDEQ	Michigan Department of Environmental Quality
MDOT	Michigan Department of Transportation
MGDL	Michigan GIS Data Library
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NE	Northeast
ng/L	Nanogram per Liter
NKLF	North Kent Landfill
NKSA	North Kent Study Area
PDF	Portable Document Format
PFAS	Per- and Polyfluoroalkyl Substances
PFBS	Perfluorobutane Sulfonic Acid
PFHxA	Perfluorohexanoic Acid
PFHxS	Perfluorohexane Sulfonic Acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane Sulfonate
QAPP	Quality Assurance Project Plan [<i>Former Wolverine Tannery, House Street Disposal Area, and Woven/Jewell Area, Per- and Polyfluoroalkyl Substances Investigation Program</i>]
QA/QC	Quality Assurance/Quality Control
QSM	Quality Systems Manual
R&W/GZA	Rose & Westra, a Division of GZA GeoEnvironmental, Inc.
RAP	Response Activity Plan
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedures
µg/L	Micrograms per Liter
USGS	United States Geological Survey
VAP	Vertical Aquifer Profiling
Wolverine	Wolverine World Wide, Inc.



1.0 INTRODUCTION

On behalf of Wolverine, R&W/GZA prepared this RAP for the Area 6 investigation in the NKSA. The objective of this RAP is to comply with the CD by refining the current understanding of the conceptual site model and further evaluating the vertical and horizontal extent of PFAS at Area 6.

Area 6 is located northeast of the House Street plume, west and south of the North Kent Landfill (**Figure 1**). Most of the Area 6 residential water wells located west of Belmont Avenue had PFOA + PFOS concentrations less than 10 ng/L. Some Area 6 residential water wells located west of Belmont Avenue had PFOA + PFOS concentrations greater than 10 ng/L, but all were less than 70 ng/L. In the area east of Belmont Avenue, most of the residential wells did not have detectable PFOA + PFOS and all measurable concentrations were less than 10 ng/L.

This RAP is prepared pursuant to CD No. 1:18-cv-00039-JTN-SJB, effective February 19, 2020. Specifically, this scope of work is established in Sections 7.4, 7.9(b), and Appendix P of the CD. This RAP is organized into the following sections:

- Introduction
- CSM
- Proposed Statement of Work
- Investigation Methodologies
- Sampling and Analysis Methods and Procedures
- Data Quality Objectives
- Data Quality Control and Assurance
- Project Schedule for Field Sampling and Analysis
- Project Schedule for Data Evaluation and Report Submittals

2.0 CONCEPTUAL SITE MODEL

The CSM (as defined in Section 4.4 of the CD) was based on interpretation of the HSDS on-site investigation data, regional geology and hydrogeology, residential water well sampling data in the NKSA, and groundwater investigations performed associated with the former HSDS (i.e., within the House Street Study Area). The CSM is focused on the groundwater flow from the HSDS to Area 6, PFAS distribution in groundwater, and the fate and transport of PFAS in groundwater. For the purpose of this RAP, the current understanding of the CSM as related to the human receptors in Area 6 was evaluated, and potential data gaps were identified. See **Figure 1** for a layout of the NKSA and the PFAS Investigation Areas. No permanent groundwater monitoring wells have yet been installed in Area 6. See **Tables 1** and **2** for a list of residential water wells and addresses in Area 6 and their associated PFAS analytical results. The following sections provide discussions of source areas, hydrology, geology, hydrogeology, PFAS distribution in groundwater, groundwater flow, and PFAS transport.

2.01 HOUSE STREET DISPOSAL SITE AND OTHER POTENTIAL SOURCE AREAS

The HSDS, located at 1855 House Street NE, Plainfield Township, Kent County, Michigan encompasses approximately 76 acres (**Figure 1**). The HSDS is currently undeveloped and according to available information, no



buildings were previously present. An electric utility right-of-way and associated high-voltage transmission lines cross the northern portion of the HSDS, and an access road from House Street runs south to north across the HSDS.

The properties surrounding the HSDS are primarily undeveloped or residential. Properties to the northwest are undeveloped, extending to Clear Bottom Lake and Freska Lake. Properties to the west, southwest, and northeast are primarily residential. House Street NE abuts the HSDS to the south and southeast. Portions of the eastern HSDS boundary are formed by Herrington Avenue NE. Land owned by MDOT is present south and southeast of the HSDS (US-131 right-of-way), and additional residential properties are located westward along House Street.

PFAS were in Scotchgard™, a waterproofing material manufactured by 3M Company, that was applied to some leather goods manufactured at the former Wolverine tannery site in Rockford, Michigan, over a period of time. It has been determined that the tanning byproducts in which Scotchgard™ was used contained PFOS and PFOA and their precursors, which are part of a larger group of PFAS.

The HSDS was a State of Michigan licensed and regulated disposal facility from the mid-1960s through 1978. Until 1970, the HSDS received leather tanning byproducts over a period of time. EGLE Remediation and Redevelopment Division files indicated that HSDS's waste disposal license expired in 1978, but it appears no waste was disposed by Wolverine at HSDS after 1970. Based on past investigation data at Wolverine's tannery Site (R&W/GZA, 2019), the byproducts also contained other substances which were addressed in the USEPA TCRA removal action. However, the data indicates that only PFOS and PFOA appear to be materially migrating from the HSDS.

In addition to the HSDS, analytical data and preliminary groundwater flow information indicates that the North Kent Landfill, which is owned and operated by Kent County, may also be a source area of PFAS in Area 6. Lastly, while not specifically investigated, there are other possible sources of PFAS at residential properties such as those in Area 6, including septic systems, rain deposition, and the use of domestic products that contain PFAS (Schneider et al, 2016; EGLE, 2019a; ITRC, 2020).

2.02 TOPOGRAPHY

As shown in **Figure 1**, the terrain is generally hilly in the region. The ground surface elevation at HSDS ranges from 740 feet to 800 feet. The HSDS is flanked by higher ground to the northeast and southwest, but ground surface generally dips to the northwest toward the Clear Bottom Lake and Freska Lake, and to the southeast toward the Rogue River. Ground surface elevations for the area east of the HSDS range from 800 to more than 900 feet AMSL; ground surface elevations for the west to southwest of the HSDS range from 800 to 820 feet AMSL, with lower terrains to the northwest and southeast. Ground surface elevations in the NKSA range from approximately 650 feet AMSL at the Rogue River to more than 900 feet AMSL near the North Kent Landfill. Ground surface generally dips southeast toward the Rogue River. Area 6 ground surface elevations range from 800 feet to 640 feet AMSL, with a general downward slope to the south-southwest.

2.03 HYDROLOGY

The NKSA is situated within the Rogue River Basin (Basin No. 14F), which is part of the Lower Grand River watershed (HUC 04050006). Based on the *Michigan's Major Watersheds – Sub-basins GIS data* (EGLE, 2019b) downloaded from MGD, the HSDS and Area 6 study area are situated within the Rogue River Basin (Basin No. 14F), which is part of the Lower Grand River watershed (HUC 04050006). The Rogue River Basin consists of 12 sub-basins. Area 6 is in Rogue River sub-basins HUC 04050006040110 and HUC 04050006040120. The HSDS is situated on the water divide of two sub-basins: HUC 04050006040080 and HUC 04050006040120. These three



sub-basins drain to the Rogue River, which discharges to the Grand River. The HSDS is also near sub-basin HUC 04050006050050, which is part of the Grand River basin.

The 2016 National Oceanic and Atmospheric Administration climate data report¹ for Grand Rapids, Michigan, indicates that the mean annual precipitation for the 80-year record period is approximately 36 inches. Based on the state-wide GIS data for the estimated annual groundwater recharge from precipitation (Michigan State University, 2005), at the NKSA ranged from 9 to 15 inches.

From 1989 to 2016, the average annual streamflow rate at USGS Gaging Station No. 04118500 in Rockford, Michigan, is approximately 260 cfs, and the average baseflow rate approximately 210 cfs. The gaging station measures the flow for the sub-basin, HUC 04050006040110, and all the upstream sub-basins, representing a drainage area of approximately 234 square miles, according to the USGS record.

2.04 GEOLOGY

Overburden in Kent County is a thick sequence of Pleistocene glacial deposits. The thickness of glacial deposits ranges from 11 to 800 feet in Kent County; however, the majority of glacial deposits range from 200 to 400 feet in thickness (Western Michigan University, 1981; Farrand, 1982). The glacial deposits in the County include till, outwash and lacustrine deposits. Till occurs in end moraines and ground moraines (till plains), interspersed on the surface throughout the County (Stramel, Wisler, & Laird, 1954). For the area near the City of Rockford and Plainfield Township, the Michigan Glacial Land systems (Michigan State University, 2015) indicates that proglacial outwash plain is present along the Rogue River, and end moraines are present either side of the Rogue River extending to the “wide” near the Grand River. End moraines of medium-textured till are present at the NKSA and its vicinity. The ground moraine (till plain) and end moraine belong to the unstratified group of deposits, composed of fine- to coarse-grained material, including silt, sand, gravel, and boulders.

Based upon bedrock maps for the area (MDEQ, 1987), the bedrock beneath the NKSA includes the Michigan basin series. Based on GIS data from EGLE (MDEQ, 1987), Jurassic “red beds” are present in most of the site area and its vicinity, with small areas of Saginaw formation outcrops. The Jurassic “red beds” are often poorly consolidated or unconsolidated and consist primarily of clay, mudstone, siltstone, sandstone, shale, and gypsum. The “red beds” are of low permeability and are considered a confining unit. However, locally in the county, the “red beds” have been documented to supply small quantities of water (Apple & Reeves, 2007). Beneath the “red beds,” bedrock in the region consists of the Mississippian-aged sandstone (Marshall formation), shale (Michigan formation), and the Bayport limestone as well as the Pennsylvanian-aged Saginaw formation. The regional dip is northeasterly toward the center of the Michigan basin.

Based on the *Hydrogeologic Atlas of Michigan* (Western Michigan University, 1981), the top of bedrock elevation ranges from 500 to 550 feet near the City of Rockford. The top of bedrock elevations at the HSDS area were estimated to range from 540 to 580 feet (R&W/GZA, 2018).

NKSA Geology

This summary of the geology in the NKSA is based on borehole data collected during the subsurface exploration, groundwater monitoring well installation described in **Appendix A**, and the residential water well construction information and lithology data downloaded from the online Wellogic System². The Wellogic System made available individual well logs in PDF, GIS shapefiles of county-wide well locations and construction information, and database files of lithology data for some of the wells. R&W/GZA has attempted to verify the well locations by

¹ <https://www.ncdc.noaa.gov/cdo-web/search>

² <https://secure1.state.mi.us/wellogic/Login.aspx?ReturnUrl=%2fwellogic%2fdefault.aspx>



comparing the well addresses to the Kent County Parcel GIS shapefiles and found that some of the well locations in the Wellogis GIS shapefiles are incorrect. To rectify, the Kent County parcel center coordinates are used for the residential well locations if the well addresses are verified with the Kent County Parcel GIS shapefiles. The majority of the well addresses in the Wellogis System GIS shapefiles were verified, and the parcel center locations were used as their coordinates. For some well locations, the addresses of which were not verifiable, the locations in the Wellogis System GIS files were kept and qualified with a note. In addition, lithology data for some of the wells in the Wellogis System GIS shapefiles were not available; therefore, R&W/GZA downloaded the PDF well logs and compiled the available lithology data into the well lithology database.

The monitoring well locations and the residential water wells with lithology data are shown in **Figure 4**. Geologic cross-sections, A-A', B-B', and C-C' show the lithology in Area 6. See **Figures 5 through 8** for the geological cross-sections and their locations within Area 6.

Area 6

In the HSDS Study Area (i.e. portion of NKSA investigated as it pertains to the HSDS), cross-section A-A' (**Figure 6**) is constructed along the primary plume center line, parallel to the paleo-channel on the Lidar Bare Earth Elevation image on **Figure 5**. The lithology of A-A' is predominantly coarse-grained soil, with the presence of fine-grained soil in a few borings with limited thickness on the northwestern portion with increasing fine-grained soils on the southeastern portion near the Rogue River. The maximum thickness of fine-grained soil was approximately 180 feet at 7223 Packer Drive NE on the southeast end of the cross-section line.

Cross-section B-B' (**Figure 7**) is perpendicular to A-A' and is parallel to US-131 in the northwestern portion of Area 6. The lithology of B-B' is generally coarse-grained soil on the northeast and southwest extents with layers of finer-grained soil evident in the central portion near Graphic Drive and Strawberry Lane. Only the residential well at 8246 Belmont Ave NE did not contain fine-grained soil, and the maximum thickness of fine-grained soil was documented at 8165 Graphic Drive NE at approximately 150 feet thick.

Cross-section C-C' (**Figure 8**) is located southeast and parallel to cross-section B-B'. The lithology in cross-section C-C' is similar to B-B' except for the southwest portion where fine-grained materials are prevalent at- and near-ground surface at elevations ranging 850 feet above mean sea level to 775 feet above mean sea level. Fine-grained soil was encountered in all boreholes on this cross-section, with thickness ranging from less than 10 feet to approximately 275 feet.

In general, coarse-grained soil is predominant in most of the soil borings and water well logs in Area 6 and the HSDS Study Area. The presence and thickness of clay and silt deposits varies horizontally and vertically without stratified correlation between borings. The lithologies shown on the cross-sections are characteristics of glacial outwash, and end moraines, to a lesser extent, as documented in regional geology. The overburden thickness ranges from approximately 220 to 290 feet, and the top of bedrock elevations ranged from approximately 490 to 550 feet.

2.05 HYDROGEOLOGY

NKSA House Street Study Area Groundwater Flow

Static water levels were collected from the monitoring wells and the staff gauges. Groundwater and surface water elevations were calculated from the surveyed elevations of the top of casing for the monitoring wells or reference points for the staff gauges. In addition, surface water elevations recorded at USGS Gaging Station No. 04118500 were also downloaded and converted to the same datum as the monitoring well survey. See **Table 3** for the well



installation information in the NKSA and **Table 4** for a summary of the static groundwater level measurements. Note these tables include information for NKSA as a whole, while only a portion of the data is relevant to Area 6.

In addition to the R&W/GZA installed groundwater monitoring wells, EGLE also collected static water level data from the monitoring wells installed by EGLE during the November 2019 monitoring event, and requested that North Kent County Landfill collect and provide static water level data in November 2019. In combination, the November 2019 static water level data provided the most complete set of static water levels and elevations for the NKSA.

For the locations where multiple wells were installed at different intervals, R&W/GZA grouped the wells into the shallow zone and deep zone by borehole lithologies, screen intervals, and static water elevations. See **Table 3** for the well grouping designations.

Based on the November 2019 data set, groundwater elevation contours were interpolated from the static water level data. See **Figure 2** for the groundwater elevation contours in the shallow zone and **Figure 3** for the deep zone.

As shown on **Figures 2 and 3**, groundwater in both the deep and shallow zones of the NKSA flows to the Rogue River. The HSDS is situated at or near a groundwater divide. Groundwater predominantly flows from the HSDS to the southeast to the Rogue River, but a portion of the flow is to the northwest. Because of groundwater discharge to Freska Lake and Clear Bottom Lake, the hydraulic gradient to the southwest appears to be flat as compared to the southeast.

Area 6 Groundwater Flow

In Area 6, the shallow groundwater flows to the west and southwest in the northern portion near the North Kent Landfill while groundwater in the southern portion of Area 6 flows to the south and southeast toward the Rogue River. The deeper groundwater contours show an overall south-southeast flow toward the Rogue River. However, these contours are limited as there are no investigative monitoring wells within Area 6. The contours are based on well information outside of Area 6. As such, this is one of the data gaps identified in this CSM. Site-specific hydraulic conductivity values are not available, as such Area 6 specific groundwater seepage velocity is not estimated.

2.06 PFAS DISTRIBUTION IN GROUNDWATER

Distribution of PFAS in the House Street Study Area

Groundwater and residential well sampling completed since 2017 has identified one primary PFAS plume within the HSDS Study Area ("House Street Primary Plume"). Groundwater samples collected from the monitoring wells across the House Street Study Area in 2019 identified PFOA and PFOS as the primary PFAS compounds (approximately 11 percent and 60 percent of the total PFAS in monitoring well samples respectively). Note total PFAS analyte lists have varied between 14 and 23 (i.e., the EPA Method 537.1 14-analyte list and the 23 analytes included in the isotope dilution methodology under the most recent DoD QSM revision in effect at the time of sampling). However, given that the percent of the total PFAS mass that is comprised of PFOA + PFOS is relatively high, the slight variations in the total PFAS due to the varied number of analytes is negligible. Specifically, the analytes included on the 23 list that are not on the 14 list (i.e., 9 different compounds) comprise approximately 8 percent of the total PFAS in the monitoring well samples. For consistency in the mapping, the total PFAS presented on **Figure 9** are calculated from the sum of the 12 PFAS compounds that are common between EPA Method 537.1



and the isotope dilution, DoD QSM methodology. However, the total PFAS values used throughout the remainder of this RAP and associated documents are reported as full totals of either the 14 or 23 analytes.

Table 5, below, summarizes the detections, maximum concentration, and frequency of detection in groundwater samples collected in the House Street Study Area for PFOA and PFOS analytes. Analytical data for the residential wells in Area 6 are provided on **Table 2**, and PFAS analytical results for the samples collected from the House Street Study Area in 2019 are provided in **Table 6**. **Figures 9** and **10** depict total PFAS (12 compounds as previously discussed) and PFOA + PFOS in the House Street Study Area near Area 6, respectively.

Table 5: Summary of Combined PFOA + PFOS Data in Groundwater, 2019 HSDS Quarterly Monitoring Well Sampling

Compound	Total Samples	Number of Detections	Number of Exceedances	Maximum Conc. (µg/L)	Threshold Value (µg/L)	Basis for Value ¹
Combined PFOA + PFOS	256	129	35	111	0.070	DWC
Combined PFOA + PFOS	256	129	91	111	0.010	CD Value ²

1. Discussion of criterion applicability is included in Section 2.08.

2. CD value is not a state-wide criterion, but a performance objective from the CD.

PFAS analytical data from the groundwater monitoring wells, and residential water well samples collected until December 2019 were combined and used for the interpolation of isoconcentration maps for total PFAS (**Figure 9**), and PFOA + PFOS (**Figure 10**). Where data from multiple sampling depths or sampling events are available at one location, the maximum concentrations were used during interpolation. It is important to note that the isoconcentration maps were geostatistically interpolated from spatially distributed point data, therefore they may overestimate the concentrations or extents in areas where data points were relatively sparse. As implied by the method, the isoconcentration maps are estimations only and are not intended to represent measured or true conditions.

The total PFAS isoconcentration map (**Figure 9**) suggests the primary PFAS plume migrated from the HSDS toward the Rogue River, primarily in the southeast direction, along the plume centerline. The PFOA + PFOS isoconcentration map (**Figure 10**) indicates a similar distribution to the total PFAS isoconcentration map, but their extents and the concentration ranges are less than that of total PFAS because the total PFAS isoconcentration map included other compounds, such as PFBS, PFHxA, PFHxS, and PFNA. Area 6 is situated immediately north of the primary House Street Plume. As shown in **Figures 9** and **10**, the primary PFAS plume (consisting of primarily PFOA and PFOS) is located southwest of Area 6.

Distribution of PFAS in Area 6

Within Area 6, relatively small areas of PFOS + PFOA detection above 10 ng/L have been identified in drinking water well sampling (see **Table 3**), but the detected PFOA + PFOS concentrations were less than 70 ng/L. In addition, the majority of the residential wells in Area 6 did not contain detectable PFOA + PFOS, or PFAS (specifically, 306 of 481 samples collected were non-detect for total PFAS and 358 were non-detect for PFOA + PFOS).

The groundwater data delineating the extent of the PFOS + PFOA within Area 6 is limited to residential wells with generalized lithology. As discussed previously, the current interpreted groundwater contours indicate potential groundwater flow from the NKLF area to Area 6, although additional monitoring data is needed to confirm this interpretation. As shown in **Figure 10**, PFOA + PFOS were detected at concentrations greater than 70 ng/L in some of the monitoring wells in the NKLF area, therefore there is the potential for PFOA + PFOS-impacted groundwater



from the NKLF to migrate to Area 6. This remains to be further evaluated. Data gaps are described in **Section 2.08**, and data collection to resolve the gaps is discussed in **Section 3.0**.

3-Dimensional Representation of PFAS in Area 6

Due to the lack of monitoring well clusters screened at multiple depths in Area 6, a 3-dimensional representation of PFAS is not practicable at this time. The possibility of 3-dimensional representation will be evaluated once the data proposed in **Section 3.0** are collected.

2.07 EXPOSURE PATHWAYS – APPLICABLE PART 201 CLEANUP CRITERIA AND CD ACTION LEVELS

The residents in Area 6 who use groundwater for drinking water are potential receptors of PFOA + PFOS exposure via groundwater ingestion. Therefore, based on EGLE's Part 201 administrative rules, the applicable Part 201 groundwater cleanup criterion for Area 6 is the Part 201 Generic Groundwater Cleanup Criteria Protective of Drinking Water for Residential Land Uses (DWC), which is protective of human health from being exposed to groundwater via ingestion.

For PFAS compounds, Michigan only has Part 201 cleanup criteria for PFOS and PFOA. Section 7.1 of the CD requires preventing exposure to PFOA + PFOS concentration in excess of 10 ng/L as one of the performance objectives.

Compound	Threshold Value (µg/L)	Basis for Value
PFOA	12	GSI
PFOS	0.012	GSI
Combined PFOA + PFOS	0.070	DWC
Combined PFOA + PFOS	0.010	CD Value

The GSI pathway for PFAS and PFOA + PFOS is addressed in a separate RAP submitted to EGLE in April 2020 (R&W/GZA, 2020).

Based on the Part 201 cleanup criteria and the CD requirement, the project action levels for PFOA + PFOS concentrations are set to be 10 ng/L and 70 ng/L. The project objectives are to monitor possible migration of PFAS/PFOA + PFOS to Area 6 and evaluate if Area 6 receptors are potentially exposed to PFOA + PFOS above 10 ng/L via groundwater ingestion.

2.08 DATA GAPS

Based on the current understanding of the CSM and the above discussions, the following data gaps are identified:

- Groundwater elevation and groundwater flow directions from the NKLF area and the primary HSDS PFOA + PFOS, PFAS plume to Area 6; and,
- Potential for PFOA + PFOS, PFAS impacted groundwater in the shallow and deep zones migrating to Area 6.

R&W/GZA has identified the following areas within Area 6 where additional data is needed to further characterize the plume and meet the project objectives and address the data gaps:

- Southeast of the HSDS primary plume (southeast of US-131);
- The eastern portion of Area 6 (east of Belmont Drive Northeast);



- South of Area 6 near Pine Hill Drive Northeast and Belmont Drive Northeast; and
- West of Area 6 (east of Herrington Avenue Northeast).

3.0 PROPOSED STATEMENT OF WORK

The following provides a summary of the proposed investigation, based on the identified data gaps. The proposed sampling locations are shown on **Figure 12**. Actual monitoring well locations may vary slightly from the proposed locations of **Figure 12** during installation. While the target locations are shown, limitations for access on private properties, site conditions, and utilities may require moving monitoring well locations.

- Two previously proposed remedial investigation VAP/monitoring well locations are included as part of the Area 6 investigation. Both HS-MW-13 (recently completed) and HS-PMW-16 are located between the House Street primary plume and Area 6. The wells will help delineate the boundary of the House Street primary plume.
- Three VAP/monitoring well locations, HS-PMW-RI-108, HS-PMW-RI-109, and AREA6-RI-4, are proposed to evaluate groundwater flow direction and monitor potential PFOA + PFOS migration in this area. These three locations will provide data to further evaluate whether the detected PFOA + PFOS concentrations in Area 6 was migrated from the HSDS and/or from the North Kent Landfill Area.
- Two additional VAP/monitoring well location, AREA6-RI-1 and AREA6-RI-2, located southeast of AREA6-RI-4, are proposed to evaluate groundwater flow direction and monitor potential PFOA + PFOS migration in the eastern portion of Area 6. These two locations will provide data to further monitor potential PFOA + PFOS migration into the eastern portion of Area 6.
- One VAP/monitoring well location, AREA6-RI-3, is proposed to delineate the extent of the primary House Street PFOA + PFOS plume near Area 6. In addition, drilling and sampling of the previously proposed VAP/monitoring well location HS-PMW-16 will be continued and incorporated as part of the evaluation in Area 6. These two locations will provide data to evaluate groundwater flow in this area and delineate the extent of the primary House Street plume.

The combination of groundwater monitoring, institutional controls (groundwater use ordinance), and filters (as required) are designed to protect Area 6 residents from unacceptable exposure to PFOA + PFOS in drinking water. In addition to groundwater monitoring proposed in this RAP, additional residential well resampling is proposed (see separate residential well sampling RAP submitted May 2020). If a residential well exceeds 10 ng/L PFOA + PFOS, the CD mandates Wolverine provide a drinking water filter and requires the Plainfield and Algoma Townships groundwater use ordinance to require use and maintenance of these filters.

4.0 INVESTIGATION METHODOLOGY

Relevant tasks completed under this RAP will be completed in accordance with the most recent revision of the QAPP prepared for Wolverine by R&W/GZA.

The proposed well cluster locations will be drilled using either hollow-stem auger or rotosonic methods in accordance with SOPs A03 through A06 of the QAPP. When possible, the initial boring at each location will be drilled to the top of bedrock or upon refusal. The borehole terminal depth will also be evaluated based on the depths of adjacent water wells and the presence of confining strata.

As the original borings are drilled at each location, vertical aquifer profiling samples will be collected for PFAS analysis from water-bearing and permeable formation(s) at an interval of 10 feet. Vertical Aquifer Profiling will



be completed in accordance with *SOP A25, Vertical Aquifer Profiling* included in the QAPP. The turn-around time for laboratory samples will be approximately three weeks.

Based on the profiling data, encountered geology, and nearby drinking water well elevations, R&W/GZA will determine the depth(s) of wells installed at each nest location. The monitoring wells will be developed in accordance with *SOP A13, Well Development* in the QAPP. Upon completion, the wells will also be surveyed by a licensed surveyor.

5.0 SAMPLING AND ANALYTICAL PROCEDURES

This section provides a generalized SAP for the Area 6 monitoring well sampling. Specific information regarding sampling procedures and analytical methods is provided in the site-specific QAPP.

Wells will be sampled as follows:

- Initial sampling post installation/development;
- Annual sampling until substantial completion of the Area 6 well network; and
- Once the Area 6 well network is substantially complete, all newly-installed wells will be sampled quarterly for one year. (Substantial Completion will be agreed upon by R&W/GZA and EGLE.)

5.01 SAMPLING LOCATIONS

As discussed in **Section 3.0**, the following monitoring wells will be sampled:

Grouping/Area	Well Nomenclature
Existing	HS-MW-13S, HS-MW-13M, and HS-MW-13D, and HS-PMW-16
Evaluate groundwater flow direction further in Area 6	HS-PMW-RI-108, HS-PMW-RI-109, and AREA6-RI-4
Southeast of AREA6-RI-4 to evaluate groundwater flow and monitor potential migration into the eastern portion of Area 6	AREA6-RI-1 and AREA6-RI-2
Delineation of extent of primary House Street plume near Area 6	AREA6-RI-3

5.02 SAMPLE COLLECTION AND LABELING

Samples will be collected for PFAS analysis following the methods summarized in **Section 4.0** and detailed in the sampling SOPs for Groundwater Monitoring Wells (SOP A16; Low Flow Sampling). Detailed field and laboratory requirements are provided in the site-specific QAPP.

Sample identification will consist of nomenclatures that include the unique location identification (see reference table above). If applicable, sample identification for each sample will be repeated for each sampling event with consistent spelling.

To prevent misidentification of samples, legible labels will be affixed to each sample container. The labels will be sufficiently durable to remain legible even when wet. At a minimum, the labels will contain the following information:



- Location ID;
- Name or initials of collector; and
- Date and time of collection.

5.03 SAMPLE SHIPPING

Sample bottles will be placed into the cooler and packed with double-bagged wet ice immediately following collection. Packing material will be used as necessary. A temperature blank will be placed in the cooler prior to shipment. The cooler shall be addressed to the appropriate laboratory and dispatched as soon as practical to ensure timely arrival.

5.04 ANALYTICAL METHOD AND PARAMETERS

PFAS will be analyzed using DoD QSM 5.3 guidelines for PFAS by isotope dilution methodology. The analyte list will include the 28 PFAS compounds specified by EGLE, and reporting limits are provided in Table A.7.7 of the project-specific QAPP.

6.0 DATA QUALITY ASSURANCE AND CONTROL

The following field quality control samples will be collected at a rate of one per 20 samples in accordance with the project-specific QAPP: Field blanks, field duplicates, and MS/MSDs.

- Field blanks will be collected by pouring laboratory-supplied certified PFAS-free water into a sample container at the point of sample collection. The purpose of field blanks is to assess potential contamination at the sample point.
- Field duplicates will be collected by filling one additional sample container with water from the sample point. The purpose of field duplicates is to assess variability in sample composition. Field duplicates are not intended to be blind duplicates.
- MS/MSD will be collected by filling two additional sets of sample bottles with water from the sample point. MS/MSD analyses are conducted by the analytical laboratory after samples have been collected and submitted. Analysis of known concentrations of analytes spiked in the MS/MSD samples indicate if matrix interference effects are occurring.
- QA/QC samples will be collected using the methods described in **Section 5.0** and the SOPs in the site-specific QAPP. Samples will be labeled as described in **Section 5.0**. The location of QA/QC samples will be entered into the Monitoring Checklist. QA/QC samples will be analyzed using the same analytical methods used for the primary sample.

7.0 INVESTIGATION DERIVED WASTE

Soil cuttings from beneath the water table and development/purge water from the well installations and sampling will be containerized and transported to the HSDS property for staging/storage until off-site treatment/disposal or other approved handling can be arranged. Soil cuttings from above the water table will be spread near the wellhead and/or transported to another location to be used as clean fill.



8.0 ANTICIPATED SCHEDULE

The schedule for monitoring well installation will depend greatly on R&W/GZA's ability to procure access to the desired or proximate alternate locations and the potential impact of coronavirus disease 2019 (COVID-19). The following table outlines R&W/GZA's current estimates of the steps and approximate timeframes for the tasks in this RAP (upon EGLE approval).

Task	Estimated Timeframe per Location
Access	1 to 3 months
Initial Drilling	2 to 3 weeks
VAP analysis	3 weeks
Monitoring Wells Installation	1 to 2 weeks
Development Wait Time	2 weeks
First Groundwater Sampling	1 week
First Laboratory Analysis	3 weeks

Assuming one month per location, R&W/GZA estimates this SOW will require six months to complete drilling, vertical aquifer profiling, and monitoring well installation. This will be completed in conjunction with the other RAPs submitted under the CD. R&W/GZA will coordinate with EGLE to prioritize drilling locations if access is obtained for multiple locations throughout the RAPs simultaneously. Because access will likely be obtained piecemeal, the actual well installation schedule will likely exceed six months.

Following the full year of quarterly sampling of the well network, R&W/GZA will evaluate the data in consultation with EGLE and determine appropriate next steps.

9.0 REFERENCES

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TABLES

TABLE 1
PARCEL LIST AND WELL INFORMATION
Area 6
Plainfield Township, Kent County, MI

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See Page 3 for Notes

Area	PPN	Address	Note	Well Screen Elevation (feet)
Area 6	411003151006	8165 GRAPHIC DR NE	MUNICIPAL WATER	NA
Area 6	411010176020	7250 BELMONT AVE NE	VACANT	NA
Area 6	411010151015	7295 HICKORY TRL NE	VACANT	NA
Area 6	411010176022	7230 BELMONT AVE NE	VACANT	NA
Area 6	411003102006	8175 GRAPHIC DR NE	VACANT	NA
Area 6	411010151009	7275 BELMONT AVE NE	SAMPLED BY R&W/GZA AND OTHERS	639-634
Area 6	411010151007	7319 BELMONT AVE NE	SAMPLED BY R&W/GZA	644-639
Area 6	411010151012	7335 BELMONT AVE NE	SAMPLED BY R&W/GZA	NA
Area 6	411010151011	7363 BELMONT AVE NE	SAMPLED BY R&W/GZA	NA
Area 6	411010151003	7385 BELMONT AVE NE	SAMPLED BY R&W/GZA	NA
Area 6	411003351004	7619 BELMONT AVE NE	SAMPLED BY R&W/GZA	763-758
Area 6	411003351006	7675 BELMONT AVE NE	SAMPLED BY R&W/GZA	NA
Area 6	411003351005	7685 BELMONT AVE NE	SAMPLED BY R&W/GZA	675-670
Area 6	411003353002	7757 BELMONT AVE NE	SAMPLED BY R&W/GZA	651-646
Area 6	411003353001	7781 BELMONT AVE NE	SAMPLED BY R&W/GZA	675-670
Area 6	411003301004	7815 BELMONT AVE NE	SAMPLED BY R&W/GZA	631-626
Area 6	411003301003	7877 BELMONT AVE NE	SAMPLED BY R&W/GZA	815-810
Area 6	411003301002	7923 BELMONT AVE NE	SAMPLED BY R&W/GZA	829-824
Area 6	411003301001	7965 BELMONT AVE NE	SAMPLED BY R&W/GZA	760-754
Area 6	411010176008	7280 BELMONT AVE NE	SAMPLED BY R&W/GZA	613-608
Area 6	411010176001	7350 BELMONT AVE NE	SAMPLED BY R&W/GZA AND OTHERS	641-631
Area 6	411010101026	7447 CLOUDBERRY LN NE	SAMPLED BY R&W/GZA	495-495
Area 6	411010101027	7485 CLOUDBERRY LN NE	SAMPLED BY R&W/GZA	714-709
Area 6	411010101015	7500 CLOUDBERRY LN NE	SAMPLED BY R&W/GZA	727-718
Area 6	411010101028	7525 CLOUDBERRY LN NE	SAMPLED BY R&W/GZA	721-716
Area 6	411010101014	7530 CLOUDBERRY LN NE	SAMPLED BY R&W/GZA	NA
Area 6	411010101029	7555 CLOUDBERRY LN NE	SAMPLED BY R&W/GZA	666-661
Area 6	411003151002	8060 GRAPHIC DR NE	SAMPLED BY R&W/GZA	680-650
Area 6	411003151007	8080 GRAPHIC DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411003151008	8110 GRAPHIC DR NE	SAMPLED BY R&W/GZA	681-671
Area 6	411003152001	8166 GRAPHIC DR NE	SAMPLED BY R&W/GZA	676-671
Area 6	411003102007	8195 GRAPHIC DR NE	SAMPLED BY R&W/GZA	684-679
Area 6	411010151018	7296 HICKORY TRL NE	SAMPLED BY R&W/GZA	632-622
Area 6	411010151022	7303 HICKORY TRL NE	SAMPLED BY R&W/GZA	566-561
Area 6	411010151017	7304 HICKORY TRL NE	SAMPLED BY R&W/GZA	626-621
Area 6	411010151006	7305 HICKORY TRL NE	SAMPLED BY R&W/GZA	648-628
Area 6	411010151004	7307 HICKORY TRL NE	SAMPLED BY R&W/GZA	617-597
Area 6	411010151023	7309 HICKORY TRL NE	SAMPLED BY R&W/GZA	NA
Area 6	411010151024	7311 HICKORY TRL NE	SAMPLED BY R&W/GZA	629-619
Area 6	411010200034	7262 PACKER DR NE	SAMPLED BY R&W/GZA	658-654
Area 6	411010176018	7265 PACKER DR NE	SAMPLED BY R&W/GZA	611-606
Area 6	411010200028	7280 PACKER DR NE	SAMPLED BY R&W/GZA	576-571
Area 6	411010176019	7295 PACKER DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411010200007	7300 PACKER DR NE	SAMPLED BY R&W/GZA	657-652

TABLE 1
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Area	PPN	Address	Note	Well Screen Elevation (feet)
Area 6	411010176006	7301 PACKER DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411010176016	7315 PACKER DR NE	SAMPLED BY R&W/GZA	631-626
Area 6	411010176015	7349 PACKER DR NE	SAMPLED BY R&W/GZA	656-651
Area 6	411010200003	7390 PACKER DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411010200031	7400 PACKER DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411010200030	7402 PACKER DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411010176011	7429 PACKER DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411010176010	7455 PACKER DR NE	SAMPLED BY R&W/GZA	651-646
Area 6	411010176012	7461 PACKER DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411010176002	7475 PACKER DR NE	SAMPLED BY R&W/GZA	608-603
Area 6	411010101025	2430 PERSIMMON PL NE	SAMPLED BY R&W/GZA	498-498
Area 6	411010101016	2455 PERSIMMON PL NE	SAMPLED BY R&W/GZA	679-674
Area 6	411010101024	2460 PERSIMMON PL NE	SAMPLED BY R&W/GZA	492-407
Area 6	411010101023	2490 PERSIMMON PL NE	SAMPLED BY R&W/GZA	547-438
Area 6	411010101022	2530 PERSIMMON PL NE	SAMPLED BY R&W/GZA	481-431
Area 6	411010101021	2570 PERSIMMON PL NE	SAMPLED BY R&W/GZA	664-659
Area 6	411010101032	2250 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411010101001	2255 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	676-671
Area 6	411010101031	2280 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	673-668
Area 6	411010101002	2285 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	674-665
Area 6	411010101003	2313 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	677-672
Area 6	411010101030	2320 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	674-669
Area 6	411010101004	2355 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	679-674
Area 6	411010101005	2435 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	705-685
Area 6	411010101006	2465 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	707-687
Area 6	411010101013	2480 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	NA
Area 6	411010101007	2495 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	700-695
Area 6	411010101008	2525 ROLLING MEADOW DR NE	SAMPLED BY R&W/GZA	704-699
Area 6	411010101012	7460 STEEPLEBUSH LN NE	SAMPLED BY R&W/GZA	640-635
Area 6	411010101020	7465 STEEPLEBUSH LN NE	SAMPLED BY R&W/GZA	NA
Area 6	411010101011	7490 STEEPLEBUSH LN NE	SAMPLED BY R&W/GZA	700-695
Area 6	411010101019	7495 STEEPLEBUSH LN NE	SAMPLED BY R&W/GZA	NA
Area 6	411010101010	7520 STEEPLEBUSH LN NE	SAMPLED BY R&W/GZA	684-674
Area 6	411010101018	7525 STEEPLEBUSH LN NE	SAMPLED BY R&W/GZA	722-717
Area 6	411010101017	7545 STEEPLEBUSH LN NE	SAMPLED BY R&W/GZA	730-725
Area 6	411010101009	7550 STEEPLEBUSH LN NE	SAMPLED BY R&W/GZA	NA
Area 6	411004427001	2242 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	652-642
Area 6	411004427002	2270 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	684-674
Area 6	411004427003	2300 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	601-586
Area 6	411004427004	2330 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	650-640
Area 6	411004427005	2360 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	666-656
Area 6	411004427006	2390 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	656-646
Area 6	411003352005	2400 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	685-675
Area 6	411003352006	2430 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	667-662

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PARCEL LIST AND WELL INFORMATION
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Area	PPN	Address	Note	Well Screen Elevation (feet)
Area 6	411003352007	2450 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	677-667
Area 6	411003352002	2469 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	675-665
Area 6	411003352008	2470 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	677-667
Area 6	411003352003	2495 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	679-673
Area 6	411003352009	2500 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA AND OTHERS	745-738
Area 6	411003352010	2530 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	NA
Area 6	411003352004	2555 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	686-676
Area 6	411003352011	2560 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	669-659
Area 6	411004427023	2263 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	610-600
Area 6	411004427022	2323 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	672-662
Area 6	411003352001	2405 STRAWBERRY FARMS ST NE	SAMPLED BY R&W/GZA	683-676
Area 6	411004427007	7778 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	663-653
Area 6	411004427008	7800 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	666-656
Area 6	411004427009	7834 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	664-654
Area 6	411004427010	7876 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	683-678
Area 6	411004427011	7900 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	668-658
Area 6	411004427012	7936 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	655-645
Area 6	411004427028	7970 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	689-680
Area 6	411004427027	7988 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	689-683
Area 6	411004427026	8000 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	669-662
Area 6	411004427021	7777 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	653-643
Area 6	411004427020	7803 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	660-650
Area 6	411004427019	7817 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	665-651
Area 6	411004427018	7835 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	661-651
Area 6	411004427017	7857 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	658-648
Area 6	411004427016	7909 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	662-652
Area 6	411004427015	7917 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	676-671
Area 6	411004427014	7925 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	684-679
Area 6	411004427013	7933 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	677-667
Area 6	411004427024	7969 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	660-655
Area 6	411004427025	7985 STRAWBERRY LN NE	SAMPLED BY R&W/GZA	673-663
Area 6	411003102009	8347 BELMONT AVE NE	VACANT MUNICIPAL WATER AVAILABLE	NA
Area 6	411003151009	8057 GRAPHIC DR NE	SAMPLED BY R&W/GZA FUTURE MUNICIPAL WATER (AREA 16)	827-807
Area 6	411003151005	8093 GRAPHIC DR NE	SAMPLED BY R&W/GZA FUTURE MUNICIPAL WATER (AREA 16)	795-785

Notes:

1. Well screen elevations provided in feet above mean sea level, North American Vertical Datum of 1988 (NAVD 88). Well screen elevations were calculated using well information provided by the State of Michigan's Wellogic database and ground surface elevations of the center of the PPN generated from LiDAR data provided by Kent County. Elevations are rounded to the nearest foot.
2. "NA" indicates not available.

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427001	411004427001	411004427001	411004427001	411004427001	411004427001	411004427001	411010101032	411010101032	411010101032	411010101032	411010101001	411010101001	411010101001	411010101001	411010101001
Address			2242 STRAWBERRY FARMS ST NE	2242 STRAWBERRY FARMS ST NE	2242 STRAWBERRY FARMS ST NE	2242 STRAWBERRY FARMS ST NE	2242 STRAWBERRY FARMS ST NE	2242 STRAWBERRY FARMS ST NE	2242 STRAWBERRY FARMS ST NE	2250 ROLLING MEADOW DR NE	2250 ROLLING MEADOW DR NE	2250 ROLLING MEADOW DR NE	2250 ROLLING MEADOW DR NE	2255 ROLLING MEADOW DR NE	2255 ROLLING MEADOW DR NE	2255 ROLLING MEADOW DR NE	2255 ROLLING MEADOW DR NE	2255 ROLLING MEADOW DR NE
Sample Name			2242 Strawberry Farm	2242 Strawberry Farms-IN-11/14 Grab Potable Water	2242 Strawberry Farms-IN-5/18	2242 Strawberry Farms NE-IN-11/13	2242 Strawberry Farms NE-IN-05/14	2242 Strawberry Farms-IN-12/10	2250 Rolling Meadow	2250 Rolling Meadow-IN-12/8 Grab Water	2250 Rolling Meadow Dr NE-IN-12/7	2250 Rolling Meadow-IN-12/05	2255 Rolling Meadow	2255 Rolling Meadow-IN-12/4 Grab Water	2255 Rolling Meadow-IN-6/4	2255 Rolling Meadow Dr NE-IN-12/3	2255 Rolling Meadow-IN-6/4	2255 Rolling Meadow-IN-12/04
Matrix			Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent
Laboratory ID			K1710423-006	9322472	TE18091-010	TK16004-010	UE16033-010	UL12039-007	K1710498-019	9362347	TL08011-009	UL07003-010	K1710498-020	9349329	TF05011-005	TL06065-002	UF06045-001	UL05028-021
Sample Date			09/26/2017	11/14/2017	05/18/2018	11/13/2018	05/14/2019	12/10/2019	09/28/2017	12/08/2017	12/07/2018	12/05/2019	09/28/2017	12/04/2017	06/04/2018	12/03/2018	06/04/2019	12/04/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0041	<0.006	-	-	-	-	<0.0043	<0.01	-	-	<0.0043	<0.006	-	-	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0041	<0.006	-	-	-	-	<0.0043	<0.02	-	-	<0.0043	<0.009	-	-	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0041	<0.009	-	-	-	-	<0.0043	<0.02	-	-	<0.0043	<0.009	-	-	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	<0.0035	<0.0036	<0.0036	<0.0035	-	-	<0.0039	<0.0039	-	-	<0.0036	<0.0037	<0.004	<0.0037
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0041	<0.006	-	-	-	-	<0.0043	<0.005	-	-	<0.0043	<0.003	-	-	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0041	<0.02	-	-	-	-	<0.0043	<0.02	-	-	<0.0043	<0.009	-	-	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	<0.0035	<0.0036	<0.0036	<0.0035	-	-	<0.0039	<0.0039	-	-	<0.0036	<0.0037	<0.004	<0.0037
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0041	<0.006	-	-	-	-	<0.0043	<0.005	-	-	<0.0043	<0.003	-	-	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	0.0086	0.005	<0.0035	<0.0036	0.0038	<0.0035	<0.0043	<0.002	<0.0039	<0.0039	<0.0043	<0.001	<0.0036	<0.0037	<0.004	<0.0037
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0041	<0.006	-	-	-	-	<0.0043	<0.003	-	-	<0.0043	<0.002	-	-	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0041	<0.006	-	-	-	-	<0.0043	<0.003	-	-	<0.0043	<0.002	-	-	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0041	<0.001	-	-	-	-	<0.0043	<0.005	-	-	<0.0043	<0.003	-	-	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0041	0.001 J	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	<0.003	<0.0039	<0.0039	<0.0043	<0.002	<0.0036	<0.0037	<0.004	<0.0037
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0081	<0.005	-	-	-	-	<0.0086	<0.01	-	-	<0.0086	<0.006	-	-	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0041	<0.002	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	0.002 J	<0.0039	<0.0039	<0.0043	<0.002	<0.0036	<0.0037	<0.004	<0.0037
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0041	<0.001	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	<0.002	<0.0039	<0.0039	<0.0043	<0.001	<0.0036	<0.0037	<0.004	<0.0037
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0041	<0.001	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	<0.002	<0.0039	<0.0039	<0.0043	<0.001	<0.0036	<0.0037	<0.004	<0.0037
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0041	<0.001	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	<0.003	<0.0039	<0.0039	<0.0043	<0.002	<0.0036	<0.0037	<0.004	<0.0037
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0041	<0.001	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	<0.003	<0.0039	<0.0039	<0.0043	<0.002	<0.0036	<0.0037	<0.004	<0.0037
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.01	0.0009 J	<0.0035	<0.0036	<0.0036	<0.0035	<0.0017	<0.002	<0.0039	<0.0039	<0.0017	<0.001	<0.0036	<0.0037	<0.004	<0.0037
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0041	0.006	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	0.002 J	<0.0039	<0.0039	<0.0043	0.002	<0.0036	<0.0037	<0.004	<0.0037
PFOA + PFOS (Calculated)	0.07	NA	0.01	0.0069	ND	ND	ND	ND	ND	0.002	ND	ND	ND	0.002	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0041	<0.001	-	-	-	-	<0.0043	<0.01	-	-	<0.0043	<0.006	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0041	<0.001	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	<0.002	<0.0039	<0.0039	<0.0043	<0.001	<0.0036	<0.0037	<0.004	<0.0037
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0041	<0.001	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	<0.002	<0.0039	<0.0039	<0.0043	<0.001	<0.0036	<0.0037	<0.004	<0.0037
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0041	<0.002	<0.0035	<0.0036	<0.0036	<0.0035	<0.0043	<0.003	<0.0039	<0.0039	<0.0043	<0.002	<0.0036	<0.0037	<0.004	<0.0037
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.019	0.013	ND	ND	0.0038	ND	ND	0.004	ND	ND	ND	0.002	ND	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427023	411004427023	411004427023	411004427023	411004427023	411004427023	411004427002	411004427002	411004427002	411004427002	411004427002	411004427002	411010101031	411010101031	411010101031	411010101031
Address			2263 STRAWBERRY FARMS ST NE	2263 STRAWBERRY FARMS ST NE	2263 STRAWBERRY FARMS ST NE	2263 STRAWBERRY FARMS ST NE	2263 STRAWBERRY FARMS ST NE	2263 STRAWBERRY FARMS ST NE	2270 STRAWBERRY FARMS ST NE	2270 STRAWBERRY FARMS ST NE	2270 STRAWBERRY FARMS ST NE	2270 STRAWBERRY FARMS ST NE	2270 STRAWBERRY FARMS ST NE	2270 STRAWBERRY FARMS ST NE	2280 ROLLING MEADOW DR NE	2280 ROLLING MEADOW DR NE	2280 ROLLING MEADOW DR NE	2280 ROLLING MEADOW DR NE
Sample Name			2263 STRAWBERRY FARMS	2263 Strawberry Farms-IN-12/8 Grab Water	2263 Strawberry Farms-IN-6/14	2263 Strawberry Farms-IN-12/12	2263 Strawberry Farms-IN-6/13	2263 Strawberry Farms-IN-12/12	2270 STRAWBERRY FARM	2270 Strawberry Farms-IN-12/6 Grab Potable Water	2270 Strawberry Farms-IN-6/21	2270 Strawberry Farms-IN-12/20	2270 Strawberry Farms-IN-6/20	2270 Strawberry Farms-IN-12/10	2280 Rolling Meadow	2280 Rolling Meadow - IN - 11/17 Grab Water	2280 Rolling Meadow DR NE-IN-11/16	2280 Rolling Meadow Dr NE-IN-05/17
Matrix			Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent
Laboratory ID			K1709967-011	9362350	TF15022-004	TL14024-003	UF15009-007	UL14008-010	K1710695-027	9355520	TF23023-008	TL22019-002	UF22010-003	UL12039-009	K1710771-024	9327004	TK17017-005	UE18017-019
Sample Date			09/15/2017	12/08/2017	06/14/2018	12/12/2018	06/13/2019	12/12/2019	10/03/2017	12/06/2017	06/21/2018	12/20/2018	06/20/2019	12/10/2019	10/04/2017	11/17/2017	11/16/2018	05/17/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0041	<0.005	-	-	-	-	<0.0043	<0.006	-	-	-	-	<0.0044	<0.005	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0041	<0.008	-	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0044	<0.005	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0041	<0.008	-	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0044	<0.008	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	<0.0038	<0.0038	<0.0042	<0.004	-	-	<0.004	<0.0039	<0.0036	<0.0036	-	-	<0.0037	<0.0036
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0041	<0.003	-	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0044	<0.005	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0041	<0.008	-	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0044	<0.02	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	<0.0038	<0.0038	<0.0042	<0.004	-	-	<0.004	<0.0039	<0.0036	<0.0036	-	-	<0.0037	<0.0036
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0041	<0.003	-	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0044	<0.005	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0041	<0.0009	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	0.001	<0.004	<0.0039	<0.0036	<0.0036	0.0047	0.005	0.004	0.0047
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0041	<0.002	-	-	-	-	<0.0043	<0.002	-	-	-	-	<0.0044	<0.005	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0041	<0.002	-	-	-	-	<0.0043	<0.002	-	-	-	-	<0.0044	<0.005	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0041	<0.003	-	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0044	<0.0009	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0041	<0.002	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	<0.002	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	<0.002	<0.0037	<0.0036
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0081	<0.005	-	-	-	-	<0.0086	<0.006	-	-	-	-	<0.0088	<0.005	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0041	0.0009 J	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	0.001 JB	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	<0.002	<0.0037	<0.0036
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0041	<0.0009	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	<0.0009	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	<0.0009	<0.0037	<0.0036
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0041	<0.0009	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	<0.0009	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	<0.0009	<0.0037	<0.0036
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0041	<0.002	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	<0.002	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	<0.0009	<0.0037	<0.0036
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0041	<0.002	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	<0.002	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	<0.0009	<0.0037	<0.0036
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0016	<0.0009	<0.0038	<0.0038	<0.0042	<0.004	<0.0017	<0.0009	<0.004	<0.0039	<0.0036	<0.0036	<0.0018	<0.0009	<0.0037	<0.0036
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0041	0.006	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	0.005	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	0.001 J	0.0054	<0.0036
PFOA + PFOS (Calculated)	0.07	NA	ND	0.006	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	0.001	0.0054	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0041	<0.005	-	-	-	-	<0.0043	<0.006	-	-	-	-	<0.0044	<0.0009	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0041	<0.0009	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	<0.0009	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	<0.0009	<0.0037	<0.0036
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0041	<0.0009	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	<0.0009	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	<0.0009	<0.0037	<0.0036
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0041	<0.002	<0.0038	<0.0038	<0.0042	<0.004	<0.0043	<0.002	<0.004	<0.0039	<0.0036	<0.0036	<0.0044	<0.002	<0.0037	<0.0036
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	0.0069	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	0.0047	0.006	0.0094	0.0047

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010101031	411010101002	411010101002	411010101002	411010101002	411004427003	411010101003	411010101003	411010101003	411010101003	411010101030	411010101030	411010101030	411010101030	411010101030	411004427022
Address			2280 ROLLING MEADOW DR NE	2285 ROLLING MEADOW DR NE	2285 ROLLING MEADOW DR NE	2285 ROLLING MEADOW DR NE	2285 ROLLING MEADOW DR NE	2300 STRAWBERRY FARMS ST NE	2313 ROLLING MEADOW DR NE	2313 ROLLING MEADOW DR NE	2313 ROLLING MEADOW DR NE	2313 ROLLING MEADOW DR NE	2320 ROLLING MEADOW DR NE	2320 ROLLING MEADOW DR NE	2320 ROLLING MEADOW DR NE	2320 ROLLING MEADOW DR NE	2320 ROLLING MEADOW DR NE	2323 STRAWBERRY FARMS ST NE
Sample Name			2280 Rolling Meadow Dr NE-IN- 11/15	2285 ROLLING MEADOW	2285 Rolling Meadow-IN-12/8 Grab Water	2285 Rolling Meadow Dr NE-IN- 12/4	2285 Rolling Meadow-IN-12/05	2300 Strawberry Farm	2313 Rolling Meadow	2313 Rolling Meadow - IN-11/16 Grab Water	2313 Rolling Meadows Dr NE-IN- 11/12	2313 Rolling Meadow-IN-11/19	2320 Rolling Meadow	2320 Rolling Meadow-IN-12/11 Grab Water	2320 Rolling Meadow-IN-6/21	2320 Rolling Meadow-IN-2/15	2320 Rolling Meadow-IN-8/15	2323 STRAWBERRY FARMS
Matrix			POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water
Laboratory ID			UK15064-004	K1710940-008	9362337	TL06069-008	UL07003-015	K1710423-017	K1710498-021	9326990	TK16003-002	UK21011-009	K1710498-022	9362381	TF23023-006	UB16018-009	UH16058-006	K1709967-019
Sample Date			11/15/2019	10/05/2017	12/08/2017	12/04/2018	12/05/2019	09/26/2017	09/28/2017	11/16/2017	11/12/2018	11/19/2019	09/28/2017	12/11/2017	06/21/2018	02/15/2019	08/15/2019	09/18/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	<0.0042	<0.006	-	-	<0.0041	<0.0042	<0.006	-	-	<0.0042	<0.01	-	-	-	<0.0041
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	<0.0042	<0.008	-	-	<0.0041	<0.0042	<0.006	-	-	<0.0042	<0.01	-	-	-	<0.0041
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	<0.0042	<0.008	-	-	<0.0041	<0.0042	<0.008	-	-	<0.0042	<0.01	-	-	-	<0.0041
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.0035	-	-	<0.0037	<0.0038	-	-	-	<0.0035	<0.0037	-	-	<0.0036	<0.0038	<0.0037	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	<0.0042	<0.003	-	-	<0.0041	<0.0042	<0.006	-	-	<0.0042	<0.005	-	-	-	<0.0041
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	<0.0042	<0.008	-	-	<0.0041	<0.0042	<0.02	-	-	<0.0042	<0.01	-	-	-	<0.0041
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.0035	-	-	<0.0037	<0.0038	-	-	-	<0.0035	<0.0037	-	-	<0.0036	<0.0038	<0.0037	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	<0.0042	<0.003	-	-	<0.0041	<0.0042	<0.006	-	-	<0.0042	<0.005	-	-	-	<0.0041
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	0.0043	<0.0042	0.0008 J	<0.0037	<0.0038	<0.0041	0.005	0.006	0.0066	0.0099	<0.0042	0.001 J	<0.0036	<0.0038	<0.0037	<0.0041
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	<0.0042	<0.002	-	-	<0.0041	<0.0042	<0.006	-	-	<0.0042	<0.003	-	-	-	<0.0041
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	<0.0042	<0.002	-	-	<0.0041	<0.0042	<0.006	-	-	<0.0042	<0.003	-	-	-	<0.0041
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	<0.0042	<0.003	-	-	<0.0041	<0.0042	<0.0009	-	-	<0.0042	<0.005	-	-	-	<0.0041
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0035	<0.0042	<0.002	<0.0037	<0.0038	<0.0041	<0.0042	0.001 J	<0.0035	<0.0037	<0.0042	<0.003	<0.0036	<0.0038	<0.0037	<0.0041
Perfluorobutanoic acid (PFBA)	NCL	NA	-	<0.0085	<0.006	-	-	<0.0081	<0.0083	<0.005	-	-	<0.0083	<0.01	-	-	-	<0.0081
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0035	<0.0042	<0.002	<0.0037	<0.0038	<0.0041	<0.0042	<0.002	<0.0035	<0.0037	<0.0042	<0.003	<0.0036	<0.0038	<0.0037	<0.0041
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0035	<0.0042	<0.0009	<0.0037	<0.0038	<0.0041	<0.0042	<0.0009	<0.0035	<0.0037	<0.0042	<0.002	<0.0036	<0.0038	<0.0037	<0.0041
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0035	<0.0042	<0.0009	<0.0037	<0.0038	<0.0041	<0.0042	<0.0009	<0.0035	<0.0037	<0.0042	<0.002	<0.0036	<0.0038	<0.0037	<0.0041
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0035	<0.0042	<0.002	<0.0037	<0.0038	<0.0041	<0.0042	<0.0009	<0.0035	<0.0037	<0.0042	<0.003	<0.0036	<0.0038	<0.0037	<0.0041
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0035	<0.0042	<0.002	<0.0037	<0.0038	<0.0041	<0.0042	<0.0009	<0.0035	<0.0037	<0.0042	<0.003	<0.0036	<0.0038	<0.0037	<0.0041
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0035	<0.0017	<0.0009	<0.0037	<0.0038	<0.0016	<0.0017	<0.0009	<0.0035	<0.0037	<0.0017	<0.002	<0.0036	<0.0038	<0.0037	<0.0016
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0035	<0.0042	0.001 J	<0.0037	<0.0038	<0.0041	<0.0042	0.003 J	<0.0035	<0.0037	<0.0042	0.007	<0.0036	<0.0038	<0.0037	<0.0041
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	0.001	ND	ND	ND	ND	0.003	ND	ND	ND	0.007	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	<0.0042	<0.006	-	-	<0.0041	<0.0042	<0.0009	-	-	<0.0042	<0.01	-	-	-	<0.0041
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0035	<0.0042	<0.0009	<0.0037	<0.0038	<0.0041	<0.0042	<0.0009	<0.0035	<0.0037	<0.0042	<0.002	<0.0036	<0.0038	<0.0037	<0.0041
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0035	<0.0042	<0.0009	<0.0037	<0.0038	<0.0041	<0.0042	<0.0009	<0.0035	<0.0037	<0.0042	<0.002	<0.0036	<0.0038	<0.0037	<0.0041
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0035	<0.0042	<0.002	<0.0037	<0.0038	<0.0041	<0.0042	<0.002	<0.0035	<0.0037	<0.0042	<0.003	<0.0036	<0.0038	<0.0037	<0.0041
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0043	ND	0.0018	ND	ND	ND	0.005	0.01	0.0066	0.0099	ND	0.008	ND	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427022	411004427022	411004427022	411004427022	411004427022	411004427004	411004427004	411004427004	411004427004	411010101004	411010101004	411010101004	411010101004	411010101004	411010101004	411004427005
Address			2323 STRAWBERRY FARMS ST NE	2323 STRAWBERRY FARMS ST NE	2323 STRAWBERRY FARMS ST NE	2323 STRAWBERRY FARMS ST NE	2323 STRAWBERRY FARMS ST NE	2330 STRAWBERRY FARMS ST NE	2330 STRAWBERRY FARMS ST NE	2330 STRAWBERRY FARMS ST NE	2330 STRAWBERRY FARMS ST NE	2355 ROLLING MEADOW DR NE	2355 ROLLING MEADOW DR NE	2355 ROLLING MEADOW DR NE	2355 ROLLING MEADOW DR NE	2355 ROLLING MEADOW DR NE	2355 ROLLING MEADOW DR NE	2360 STRAWBERRY FARMS ST NE
Sample Name			2323 Strawberry Farms-IN-12/15 Grab Water	2323 Strawberry Farms-IN-6/15	2323 Strawberry Farms-IN-1/14	2323 Strawberry Farms-IN-7/16	2323 Strawberry Farms-IN-1/16	2330 Strawberry Farm	2330 Strawberry Farms-IN-12/8 Grab Water	2330 Strawberry Farms-IN-12/14	2330 Strawberry Farms-IN-12/10	2355 Rolling Meadow	2355 Rolling Meadow-IN-12/1 Grab Water	2355 Rolling Meadow-IN-6/14	2355 Rolling Meadow-IN-12/12	2355 Rolling Meadow-IN-7/2	2355 Rolling Meadow-IN-1/30	2360 Strawberry Farm
Matrix			POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water
Laboratory ID			9372249	TF16005-014	UA17010-004	UG18020-009	VA18011-006	K1710423-007	9362349	TL16007-001	UL12029-009	K1710498-023	9346194	TF15028-003	TL14050-002	UG06006-003	VB01004-007	K1710771-001
Sample Date			12/15/2017	06/15/2018	01/14/2019	07/16/2019	01/16/2020	09/26/2017	12/08/2017	12/14/2018	12/10/2019	09/28/2017	12/01/2017	06/14/2018	12/12/2018	07/02/2019	01/30/2020	10/04/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.005	-	-	-	-	<0.0042	<0.005	-	-	<0.0042	<0.006	-	-	-	-	<0.0043
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.008	-	-	-	-	<0.0042	<0.008	-	-	<0.0042	<0.008	-	-	-	-	<0.0043
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.008	-	-	-	-	<0.0042	<0.008	-	-	<0.0042	<0.008	-	-	-	-	<0.0043
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.0037	<0.004	<0.0036	<0.0038	-	-	<0.0036	<0.0037	-	-	<0.0037	<0.0035	<0.0039	<0.004	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.003	-	-	-	-	<0.0042	<0.003	-	-	<0.0042	<0.003	-	-	-	-	<0.0043
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.008	-	-	-	-	<0.0042	<0.008	-	-	<0.0042	<0.008	-	-	-	-	<0.0043
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.0037	<0.004	<0.0036	<0.0038	-	-	<0.0036	<0.0037	-	-	<0.0037	<0.0035	<0.0039	<0.004	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.003	-	-	-	-	<0.0042	<0.003	-	-	<0.0042	<0.003	-	-	-	-	<0.0043
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0009	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	<0.0009	<0.0036	<0.0037	0.005	0.003	0.0045	0.0062	0.0092	0.0079	<0.0043
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.002	-	-	-	-	<0.0042	<0.002	-	-	<0.0042	<0.002	-	-	-	-	<0.0043
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.002	-	-	-	-	<0.0042	<0.002	-	-	<0.0042	<0.002	-	-	-	-	<0.0043
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.003	-	-	-	-	<0.0042	<0.003	-	-	<0.0042	<0.003	-	-	-	-	<0.0043
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.002	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	<0.002	<0.0036	<0.0037	<0.0042	0.0009 J	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.005	-	-	-	-	<0.0083	<0.005	-	-	<0.0083	<0.006	-	-	-	-	<0.0087
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.002	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	0.001 J	<0.0036	<0.0037	<0.0042	<0.002	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0009	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	<0.0009	<0.0036	<0.0037	<0.0042	<0.0009	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0009	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	<0.0009	<0.0036	<0.0037	<0.0042	<0.0009	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.002	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	<0.002	<0.0036	<0.0037	<0.0042	<0.002	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.002	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	<0.002	<0.0036	<0.0037	<0.0042	<0.002	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0009	<0.0037	<0.004	<0.0036	<0.0038	<0.0017	<0.0009	<0.0036	<0.0037	<0.0017	<0.0009	<0.0037	<0.0035	<0.0039	<0.004	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.004	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	0.001 J	<0.0036	<0.0037	<0.0042	0.002	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
PFOA + PFOS (Calculated)	0.07	NA	0.004	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.002	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.005	-	-	-	-	<0.0042	<0.005	-	-	<0.0042	<0.006	-	-	-	-	<0.0043
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0009	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	<0.0009	<0.0036	<0.0037	<0.0042	<0.0009	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0009	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	<0.0009	<0.0036	<0.0037	<0.0042	<0.0009	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.002	<0.0037	<0.004	<0.0036	<0.0038	<0.0042	<0.002	<0.0036	<0.0037	<0.0042	<0.002	<0.0037	<0.0035	<0.0039	<0.004	<0.0043
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.004	ND	ND	ND	ND	ND	0.002	ND	ND	0.005	0.0059	0.0045	0.0062	0.0092	0.0079	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area				Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	
PPN				411004427005	411004427005	411004427005	411004427006	411004427006	411004427006	411004427006	411004427006	411003352005	411003352005	411003352005	411003352005	411003352001	411003352001	411003352001	
Address		Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	2360 STRAWBERRY FARMS ST NE	2360 STRAWBERRY FARMS ST NE	2360 STRAWBERRY FARMS ST NE	2390 STRAWBERRY FARMS ST NE	2390 STRAWBERRY FARMS ST NE	2390 STRAWBERRY FARMS ST NE	2390 STRAWBERRY FARMS ST NE	2390 STRAWBERRY FARMS ST NE	2390 STRAWBERRY FARMS ST NE	2390 STRAWBERRY FARMS ST NE	2390 STRAWBERRY FARMS ST NE	2400 STRAWBERRY FARMS ST NE	2400 STRAWBERRY FARMS ST NE	2400 STRAWBERRY FARMS ST NE	2405 STRAWBERRY FARMS ST NE	2405 STRAWBERRY FARMS ST NE
Sample Name				2360 Strawberry Farms - IN - 11/17 Grab Water	2360 Strawberry Farms -IN-11/12	2360 Strawberry Farms NE-IN-11/13	2390 Strawberry Farm	2390 Strawberry Farms NE-IN-1/31 Grab	2390 Strawberry Farms-IN-7/24	2390 Strawberry Farms-IN-1/22	2390 Strawberry Farms-IN-7/9	2390 Strawberry Farms-IN-1/28	2400 Strawberry Farm	2400 Strawberry Farms-IN-12/6 Grab Potable Water	2400 Strawberry Farms NE-IN-12/6	2400 Strawberry Farms-IN-12/05	2405 STRAWBERRY FARMS	2405 Strawberry Farms-IN-12/7 Grab Potable Water	2405 Strawberry Farms-IN-6/7
Matrix				POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent
Laboratory ID				9327018	TK16003-001	UK14035-004	K1710771-002	9435208	TG25012-010	UA24006-002	UG11018-005	VA30038-005	K1710423-020	9355500	TL08016-003	UL07003-003	K1709831-024	9359936	TF08015-002
Sample Date				11/17/2017	11/12/2018	11/13/2019	10/04/2017	01/31/2018	07/24/2018	01/22/2019	07/09/2019	01/28/2020	09/26/2017	12/06/2017	12/06/2018	12/05/2019	09/14/2017	12/07/2017	06/07/2018
Parameter (µg/L)																			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.006	-	-	<0.0042	<0.006	-	-	-	<0.0042	<0.005	-	-	<0.0043	<0.005	-		
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.006	-	-	<0.0042	<0.008	-	-	-	<0.0042	<0.008	-	-	<0.0043	<0.008	-		
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.009	-	-	<0.0042	<0.008	-	-	-	<0.0042	<0.008	-	-	<0.0043	<0.008	-		
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.0035	<0.0034	-	-	<0.0036	<0.0037	<0.0037	<0.0038	-	-	<0.0035	<0.0036	-	<0.0035		
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.006	-	-	<0.0042	<0.003	-	-	-	<0.0042	<0.003	-	-	<0.0043	<0.003	-		
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.02	-	-	<0.0042	<0.008	-	-	-	<0.0042	<0.008	-	-	<0.0043	<0.008	-		
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.0035	<0.0034	-	-	<0.0036	<0.0037	<0.0037	<0.0038	-	-	<0.0035	<0.0036	-	<0.0035		
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.006	-	-	<0.0042	<0.003	-	-	-	<0.0042	<0.003	-	-	<0.0043	<0.003	-		
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	<0.0009	<0.0035	<0.0036	<0.0043	<0.0009	<0.0035	
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.006	-	-	<0.0042	<0.002	-	-	-	<0.0042	<0.002	-	-	<0.0043	<0.002	-		
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.006	-	-	<0.0042	<0.002	-	-	-	<0.0042	<0.002	-	-	<0.0043	<0.002	-		
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.001	-	-	<0.0042	<0.003	-	-	-	<0.0042	<0.003	-	-	<0.0043	<0.003	-		
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.002	<0.0035	<0.0034	<0.0042	<0.002	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	<0.002	<0.0035	<0.0036	<0.0043	<0.002	<0.0035	
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.005	-	-	<0.0083	<0.006	-	-	-	<0.0083	<0.005	-	-	<0.0086	<0.005	-		
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.002	<0.0035	<0.0034	<0.0042	<0.002	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	0.001 J8	<0.0035	<0.0036	<0.0043	0.001 J	<0.0035	
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	<0.0009	<0.0035	<0.0036	<0.0043	<0.0009	<0.0035	
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	<0.0009	<0.0035	<0.0036	<0.0043	<0.0009	<0.0035	
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.001	<0.0035	<0.0034	<0.0042	<0.002	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	<0.002	<0.0035	<0.0036	<0.0043	<0.002	<0.0035	
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.001	<0.0035	<0.0034	<0.0042	<0.002	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	<0.002	<0.0035	<0.0036	<0.0043	<0.002	<0.0035	
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.0004 J	<0.0035	<0.0034	<0.0017	<0.0009	<0.0036	<0.0037	<0.0037	<0.0038	<0.0017	<0.0009	<0.0035	<0.0036	<0.0017	<0.0009	<0.0035	
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.002 J	<0.0035	<0.0034	<0.0042	0.005	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	0.001 J	<0.0035	<0.0036	<0.0043	0.007	<0.0035	
PFOA + PFOS (Calculated)	0.07	NA	0.0024	ND	ND	ND	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.007	ND	
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.001	-	-	<0.0042	<0.006	-	-	-	<0.0042	<0.005	-	-	<0.0043	<0.005	-		
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	<0.0009	<0.0035	<0.0036	<0.0043	<0.0009	<0.0035	
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	<0.0009	<0.0035	<0.0036	<0.0043	<0.0009	<0.0035	
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.002	<0.0035	<0.0034	<0.0042	<0.002	<0.0036	<0.0037	<0.0037	<0.0038	<0.0042	<0.002	<0.0035	<0.0036	<0.0043	<0.002	<0.0035	
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PFAS (Calculated)	NCL	NA	0.0024	ND	ND	ND	0.005	ND	ND	ND	ND	ND	0.002	ND	ND	ND	0.008	ND	

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411003352001	411003352001	411003352001	411010101025	411010101025	411010101025	411010101025	411010101025	411003352006	411003352006	411003352006	411003352006	411003352006	411003352006	411010101005	411010101005
Address			2405 STRAWBERRY FARMS ST NE	2405 STRAWBERRY FARMS ST NE	2405 STRAWBERRY FARMS ST NE	2430 PERSIMMON PL NE	2430 PERSIMMON PL NE	2430 PERSIMMON PL NE	2430 PERSIMMON PL NE	2430 PERSIMMON PL NE	2430 STRAWBERRY FARMS ST NE	2430 STRAWBERRY FARMS ST NE	2430 STRAWBERRY FARMS ST NE	2430 STRAWBERRY FARMS ST NE	2430 STRAWBERRY FARMS ST NE	2430 STRAWBERRY FARMS ST NE	2435 ROLLING MEADOW DR NE	2435 ROLLING MEADOW DR NE
Sample Name			2405 Strawberry Farms-IN-1/3	2405 Strawberry Farms-IN-7/3	2405 Strawberry Farms-IN-1/14	2430 Persimmon	2430 Persimmon-IN-1/17 Grab Potable Water	2430 Persimmon-IN-7/19	2430 Persimmon-IN-2/5	2430 Persimmon-IN-9/3	2430 Strawberry Farm	2430 Strawberry Farms NE-IN-12/22 Grab Water	2430 Strawberry Farms-IN-6/28	2430 Strawberry Farms-IN-12/27	2430 Strawberry Farms-IN-7/18	2430 Strawberry Farms-IN-1/29	2435 Rolling Meadow	2435 Rolling Meadows Dr NE-IN-1/5 Grab Potable
Matrix			POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent
Laboratory ID			UA05038-002	UG06008-005	VA16029-006	K1710771-021	9412882	TG21021-015	UB07031-003	UI05022-009	K1710423-008	9385716	TF30007-015	TL29003-004	UG20007-008	VA30055-002	K1710498-024	9396612
Sample Date			01/03/2019	07/03/2019	01/14/2020	10/04/2017	01/17/2018	07/19/2018	02/05/2019	09/03/2019	09/26/2017	12/22/2017	06/28/2018	12/27/2018	07/18/2019	01/29/2020	09/28/2017	01/05/2018
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	-	-	<0.0044	<0.006	-	-	-	<0.0042	<0.006	-	-	-	-	<0.0042	<0.006
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	-	-	<0.0044	<0.009	-	-	-	<0.0042	<0.009	-	-	-	-	<0.0042	<0.009
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	-	-	<0.0044	<0.009	-	-	-	<0.0042	<0.009	-	-	-	-	<0.0042	<0.009
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.0037	<0.0037	<0.0037	-	-	<0.0035	<0.0036	<0.0036	-	-	<0.0037	<0.0037	<0.0035	<0.0036	-	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	-	-	<0.0044	<0.003	-	-	-	<0.0042	<0.003	-	-	-	-	<0.0042	<0.003
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	-	-	<0.0044	<0.009	-	-	-	<0.0042	<0.009	-	-	-	-	<0.0042	<0.009
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.0037	<0.0037	<0.0037	-	-	<0.0035	<0.0036	<0.0036	-	-	<0.0037	<0.0037	<0.0035	<0.0036	-	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	-	-	<0.0044	<0.003	-	-	-	<0.0042	<0.003	-	-	-	-	<0.0042	<0.003
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0037	<0.0037	<0.0037	<0.0044	<0.001	<0.0035	<0.0036	<0.0036	<0.0042	<0.001	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	0.002
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	-	-	<0.0044	<0.002	-	-	-	<0.0042	<0.002	-	-	-	-	<0.0042	<0.002
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	-	-	<0.0044	<0.002	-	-	-	<0.0042	<0.002	-	-	-	-	<0.0042	<0.002
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	-	-	<0.0044	<0.003	-	-	-	<0.0042	<0.003	-	-	-	-	<0.0042	<0.003
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0037	<0.0037	<0.0037	<0.0044	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.002	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	0.0005 J
Perfluorobutanoic acid (PFBA)	NCL	NA	-	-	-	<0.0088	<0.006	-	-	-	<0.0083	<0.006	-	-	-	-	<0.0083	<0.006
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0037	<0.0037	<0.0037	<0.0044	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.002	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	<0.002
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0037	<0.0037	<0.0037	<0.0044	<0.001	<0.0035	<0.0036	<0.0036	<0.0042	<0.001	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	<0.001
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0037	<0.0037	<0.0037	<0.0044	<0.001	<0.0035	<0.0036	<0.0036	<0.0042	<0.001	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	0.0006 J
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0037	<0.0037	<0.0037	<0.0044	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.002	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	0.001 J
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0037	<0.0037	<0.0037	<0.0044	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.002	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	<0.002
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0037	<0.0037	<0.0037	<0.0018	<0.001	<0.0035	<0.0036	<0.0036	<0.0017	<0.001	<0.0037	<0.0037	<0.0035	<0.0036	<0.0017	0.0005 J
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0037	<0.0037	<0.0037	0.0045	0.004	<0.0035	<0.0036	<0.0036	<0.0042	0.012	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	0.004
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	ND	0.0045	0.004	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	0.0045
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	-	-	<0.0044	<0.006	-	-	-	<0.0042	<0.006	-	-	-	-	<0.0042	<0.006
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0037	<0.0037	<0.0037	<0.0044	<0.001	<0.0035	<0.0036	<0.0036	<0.0042	<0.001	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	<0.001
Perfluorotridecanoic acid (PFTriDA)	NCL	NA	<0.0037	<0.0037	<0.0037	<0.0044	<0.001	<0.0035	<0.0036	<0.0036	<0.0042	<0.001	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	<0.001
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0037	<0.0037	<0.0037	<0.0044	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.002	<0.0037	<0.0037	<0.0035	<0.0036	<0.0042	<0.002
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	ND	ND	0.0045	0.004	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	0.0086

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010101005	411010101005	411010101005	411003352007	411003352007	411003352007	411003352007	411003352007	411003352007	411010101016	411010101016	411010101016	411010101016	411010101024	411010101024	411010101024
Address			2435 ROLLING MEADOW DR NE	2435 ROLLING MEADOW DR NE	2435 ROLLING MEADOW DR NE	2450 STRAWBERRY FARMS ST NE	2450 STRAWBERRY FARMS ST NE	2450 STRAWBERRY FARMS ST NE	2450 STRAWBERRY FARMS ST NE	2450 STRAWBERRY FARMS ST NE	2450 STRAWBERRY FARMS ST NE	2455 PERSIMMON PL NE	2455 PERSIMMON PL NE	2455 PERSIMMON PL NE	2455 PERSIMMON PL NE	2460 PERSIMMON PL NE	2460 PERSIMMON PL NE	2460 PERSIMMON PL NE
Sample Name			2435 ROLLING MEADOW-IN-7/27	2435 Rolling Meadow-IN-2/15	2435 Rolling Meadow-IN-08/30	2450 Strawberry Farm	2450 Strawberry Farms St NE-IN-12/20 Grab Water	2450 Strawberry Farms-IN-6/20	2450 Strawberry Farms-IN-1/16	2450 Strawberry Farms-IN-7/24	2455 PERSIMMON	2455 Persimmon-IN-11/28 Grab Potable Water	2455 Persimmon Pl-IN-11/28	2455 Persimmon pl-IN-11/12	2460 Persimmon	2460 Persimmon-IN-1/12 Grab Potable Water	2460 Persimmon-IN-3/15	2465 Rolling Meadow
Matrix			POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	Drinking Water
Laboratory ID			L1829211-10	UB16018-005	UH31003-007	K1710771-003	9381485	TF21005-018	UA17014-002	UG25008-007	K1710693-027	9341194	TK29072-005	UK14028-006	K1710498-014	9406614	UC16013-001	K1710771-009
Sample Date			07/27/2018	02/15/2019	08/30/2019	10/04/2017	12/20/2017	06/20/2018	01/16/2019	07/24/2019	10/03/2017	11/28/2017	11/28/2018	11/12/2019	09/28/2017	01/12/2018	03/15/2019	10/04/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	-	-	<0.0042	<0.005	-	-	-	<0.0042	<0.006	-	-	<0.0043	<0.005	-	<0.0043
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	-	-	<0.0042	<0.008	-	-	-	<0.0042	<0.006	-	-	<0.0043	<0.008	-	<0.0043
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	-	-	<0.0042	<0.008	-	-	-	<0.0042	<0.009	-	-	<0.0043	<0.008	-	<0.0043
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.00384	<0.004	<0.0042	-	-	<0.0037	<0.0038	<0.0036	-	-	<0.0036	<0.0036	-	-	<0.0038	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	-	-	<0.0042	<0.003	-	-	-	<0.0042	<0.006	-	-	<0.0043	<0.003	-	<0.0043
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	-	-	<0.0042	<0.008	-	-	-	<0.0042	<0.02	-	-	<0.0043	<0.008	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.00384	<0.004	<0.0042	-	-	<0.0037	<0.0038	<0.0036	-	-	<0.0036	<0.0036	-	-	<0.0038	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	-	-	<0.0042	<0.003	-	-	-	<0.0042	<0.006	-	-	<0.0043	<0.003	-	<0.0043
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.00384	<0.004	<0.0042	<0.0042	<0.0009	<0.0037	<0.0038	<0.0036	<0.0042	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0038	<0.0043
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	-	-	<0.0042	<0.002	-	-	-	<0.0042	<0.006	-	-	<0.0043	<0.002	-	<0.0043
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	-	-	<0.0042	<0.002	-	-	-	<0.0042	<0.006	-	-	<0.0043	<0.002	-	<0.0043
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	-	-	<0.0042	<0.003	-	-	-	<0.0042	<0.001	-	-	<0.0043	<0.003	-	<0.0043
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.00384	<0.004	<0.0042	<0.0042	<0.002	<0.0037	<0.0038	<0.0036	<0.0042	<0.002	<0.0036	<0.0036	<0.0043	<0.002	<0.0038	<0.0043
Perfluorobutanoic acid (PFBA)	NCL	NA	-	-	-	<0.0085	<0.005	-	-	-	<0.0083	<0.005	-	-	<0.0087	<0.005	-	<0.0086
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.00384	<0.004	<0.0042	<0.0042	0.001 J	<0.0037	<0.0038	<0.0036	<0.0042	<0.002	<0.0036	<0.0036	<0.0043	<0.002	<0.0038	<0.0043
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.00384	<0.004	<0.0042	<0.0042	<0.0009	<0.0037	<0.0038	<0.0036	<0.0042	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0038	<0.0043
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.00384	<0.004	<0.0042	<0.0042	<0.0009	<0.0037	<0.0038	<0.0036	<0.0042	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0038	<0.0043
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.00384	<0.004	<0.0042	<0.0042	<0.002	<0.0037	<0.0038	<0.0036	<0.0042	<0.001	<0.0036	<0.0036	<0.0043	<0.002	<0.0038	<0.0043
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.00384	<0.004	<0.0042	<0.0042	<0.002	<0.0037	<0.0038	<0.0036	<0.0042	<0.001	<0.0036	<0.0036	<0.0043	<0.002	<0.0038	<0.0043
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.00384	<0.004	<0.0042	<0.0017	<0.0009	<0.0037	<0.0038	<0.0036	<0.0017	<0.001	<0.0036	<0.0036	<0.0017	<0.0009	<0.0038	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.00384	<0.004	<0.0042	<0.0042	0.011	<0.0037	<0.0038	<0.0036	<0.0042	0.002 J	<0.0036	<0.0036	<0.0043	0.002 J	<0.0038	<0.0043
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	ND	ND	0.011	ND	ND	ND	ND	0.002	ND	ND	ND	0.002	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	-	-	<0.0042	<0.005	-	-	-	<0.0042	<0.001	-	-	<0.0043	<0.005	-	<0.0043
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.00384	<0.004	<0.0042	<0.0042	<0.0009	<0.0037	<0.0038	<0.0036	<0.0042	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0038	<0.0043
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.00384	<0.004	<0.0042	<0.0042	<0.0009	<0.0037	<0.0038	<0.0036	<0.0042	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0038	<0.0043
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.00384	<0.004	<0.0042	<0.0042	<0.002	<0.0037	<0.0038	<0.0036	<0.0042	<0.002	<0.0036	<0.0036	<0.0043	<0.002	<0.0038	<0.0043
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	ND	ND	ND	0.012	ND	ND	ND	ND	0.002	ND	ND	ND	0.002	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010101006	411010101006	411010101006	411010101006	411003352002	411003352002	411003352002	411003352002	411003352002	411003352002	411003352008	411003352008	411003352008	411003352008	411010101013	411010101013
Address			2465 ROLLING MEADOW DR NE	2465 ROLLING MEADOW DR NE	2465 ROLLING MEADOW DR NE	2465 ROLLING MEADOW DR NE	2469 STRAWBERRY FARMS ST NE	2469 STRAWBERRY FARMS ST NE	2469 STRAWBERRY FARMS ST NE	2469 STRAWBERRY FARMS ST NE	2469 STRAWBERRY FARMS ST NE	2469 STRAWBERRY FARMS ST NE	2470 STRAWBERRY FARMS ST NE	2470 STRAWBERRY FARMS ST NE	2470 STRAWBERRY FARMS ST NE	2470 STRAWBERRY FARMS ST NE	2480 ROLLING MEADOW DR NE	2480 ROLLING MEADOW DR NE
Sample Name			2465 Rolling Meadow - IN - 11/17 Grab Water	2465 Rolling Meadow-IN-5/18	2465 Rolling Meadow Dr NE-IN-05/07	2465 Rolling Meadow-IN-11/27	2469 Strawberry Farm	2469 Strawberry Farm-IN-12/28 Grab Potable Water	2469 Strawberry Farms-IN-6/28	2469 Strawberry Farms-IN-12/27	2469 Strawberry Farms-IN-6/27	2469 Strawberry Farms-IN-12/11	2470 Strawberry Farm	2470 Strawberry Farms-IN-12/6 Grab Potable Water	2470 Strawberry Farms NE-IN-12/6	2470 Strawberry Farms-IN-11/22	2480 Rolling Meadow	2480 Rolling Meadow-IN-11/27 Grab Water
Matrix			POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent
Laboratory ID			9327008	TE18091-004	UE09019-006	UK30003-002	K1710423-009	9389661	TF30007-007	TL29004-009	UF29003-009	UL12037-002	K1710423-019	9355503	TL08016-006	UK23010-006	K1710771-023	9336565
Sample Date			11/17/2017	05/18/2018	05/07/2019	11/27/2019	09/26/2017	12/28/2017	06/28/2018	12/27/2018	06/27/2019	12/11/2019	09/26/2017	12/06/2017	12/06/2018	11/22/2019	10/04/2017	11/27/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.006	-	-	-	<0.0042	<0.005	-	-	-	-	<0.0042	<0.006	-	-	<0.0045	<0.01
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.006	-	-	-	<0.0042	<0.008	-	-	-	-	<0.0042	<0.008	-	-	<0.0045	<0.01
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.009	-	-	-	<0.0042	<0.008	-	-	-	-	<0.0042	<0.008	-	-	<0.0045	<0.01
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.0036	<0.0037	<0.0035	-	-	<0.0036	<0.0037	<0.004	<0.0037	-	-	<0.0041	<0.0037	-	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.006	-	-	-	<0.0042	<0.003	-	-	-	-	<0.0042	<0.003	-	-	<0.0045	<0.01
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.02	-	-	-	<0.0042	<0.008	-	-	-	-	<0.0042	<0.008	-	-	<0.0045	<0.03
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.0036	<0.0037	<0.0035	-	-	<0.0036	<0.0037	<0.004	<0.0037	-	-	<0.0041	<0.0037	-	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.006	-	-	-	<0.0042	<0.003	-	-	-	-	<0.0042	<0.003	-	-	<0.0045	<0.01
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	0.002	<0.0036	<0.0037	<0.0035	<0.0042	<0.0009	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	<0.0009	<0.0041	<0.0037	<0.0045	<0.002
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.006	-	-	-	<0.0042	<0.002	-	-	-	-	<0.0042	<0.002	-	-	<0.0045	<0.01
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.006	-	-	-	<0.0042	<0.002	-	-	-	-	<0.0042	<0.002	-	-	<0.0045	<0.01
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.001	-	-	-	<0.0042	<0.003	-	-	-	-	<0.0042	<0.003	-	-	<0.0045	<0.002
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.002	<0.0036	<0.0037	<0.0035	<0.0042	<0.002	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	<0.002	<0.0041	<0.0037	<0.0045	<0.003
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.005	-	-	-	<0.0083	<0.005	-	-	-	-	<0.0083	<0.006	-	-	<0.009	<0.008
Perfluorodecanoic acid (PFDA)	NCL	NA	0.0008 J	<0.0036	<0.0037	<0.0035	<0.0042	<0.002	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	0.001 JB	<0.0041	<0.0037	<0.0045	<0.003
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.001	<0.0036	<0.0037	<0.0035	<0.0042	<0.0009	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	<0.0009	<0.0041	<0.0037	<0.0045	<0.002
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.001	<0.0036	<0.0037	<0.0035	<0.0042	<0.0009	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	<0.0009	<0.0041	<0.0037	<0.0045	<0.002
Perfluorohexanoic acid (PFHxA)	NCL	400	0.0003 J	<0.0036	<0.0037	<0.0035	<0.0042	<0.002	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	<0.002	<0.0041	<0.0037	<0.0045	<0.002
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.001	<0.0036	<0.0037	<0.0035	<0.0042	<0.002	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	<0.002	<0.0041	<0.0037	<0.0045	<0.002
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.001	<0.0036	<0.0037	<0.0035	<0.0017	<0.0009	<0.0036	<0.0037	<0.004	<0.0037	<0.0017	<0.0009	<0.0041	<0.0037	<0.0018	<0.002
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.003 J	<0.0036	<0.0037	<0.0035	<0.0042	0.002	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	0.001 J	<0.0041	<0.0037	<0.0045	0.002 J
PFOA + PFOS (Calculated)	0.07	NA	0.004	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.002
Perfluoropentanoic acid (PFPeA)	NCL	NA	0.0003 J	-	-	-	<0.0042	<0.005	-	-	-	-	<0.0042	<0.006	-	-	<0.0045	<0.002
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.001	<0.0036	<0.0037	<0.0035	<0.0042	<0.0009	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	<0.0009	<0.0041	<0.0037	<0.0045	<0.002
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.001	<0.0036	<0.0037	<0.0035	<0.0042	<0.0009	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	<0.0009	<0.0041	<0.0037	<0.0045	<0.002
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.002	<0.0036	<0.0037	<0.0035	<0.0042	<0.002	<0.0036	<0.0037	<0.004	<0.0037	<0.0042	<0.002	<0.0041	<0.0037	<0.0045	<0.003
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0074	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	0.002	ND	ND	ND	0.002

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010101013	411010101013	411010101023	411010101007	411010101007	411010101007	411010101007	411003352003	411003352003	411003352003	411003352003	411003352003	411003352009	411003352009	411003352009	411003352009
Address			2480 ROLLING MEADOW DR NE	2480 ROLLING MEADOW DR NE	2490 PERSIMMON PL NE	2495 ROLLING MEADOW DR NE	2495 ROLLING MEADOW DR NE	2495 ROLLING MEADOW DR NE	2495 ROLLING MEADOW DR NE	2495 STRAWBERRY FARMS ST NE	2495 STRAWBERRY FARMS ST NE	2495 STRAWBERRY FARMS ST NE	2495 STRAWBERRY FARMS ST NE	2495 STRAWBERRY FARMS ST NE	2500 STRAWBERRY FARMS ST NE	2500 STRAWBERRY FARMS ST NE	2500 STRAWBERRY FARMS ST NE	2500 STRAWBERRY FARMS ST NE
Sample Name			2480 Rolling Meadow Dr NE-IN-11/27	2480 Rolling Meadow-IN-11/07	2490 PERSIMMON	2495 Rolling Meadow	2495 Rolling Meadow-IN-11/13 Grab Water	2495 Rolling Meadow Dr NE-IN-11/14	2495 Rolling Meadow-In-11/1	2495 Strawberry Farm	2495 Strawberry Farm-IN-12/27 Grab Potable Water	2495 Strawberry Farms-IN-7/5	2495 Strawberry Farms-IN-2/26	2495 Strawberry Farms-IN-8/23	2500 Strawberry Farm	2500 Strawberry Farms-IN-12/7 Grab Potable Water	2500 Strawberry Farms-IN-12/12	WIN1812120825MK
Matrix			POET Influent	POET Influent	Drinking Water	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent
Laboratory ID			TK30001-013	UK09013-006	K1710940-012	K1710498-025	9317330	TK15091-003	UK02006-003	K1710423-010	9388735	TG07018-002	UB28047-002	UH24016-003	K1710771-004	9359943	TL14024-001	1804122-01
Sample Date			11/27/2018	11/07/2019	10/05/2017	09/28/2017	11/13/2017	11/14/2018	11/01/2019	09/26/2017	12/27/2017	07/05/2018	02/26/2019	08/23/2019	10/04/2017	12/07/2017	12/12/2018	12/12/2018
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	-	<0.0043	<0.0042	<0.006	-	-	<0.0042	<0.01	-	-	-	<0.0042	<0.005	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	-	<0.0043	<0.0042	<0.006	-	-	<0.0042	<0.01	-	-	-	<0.0042	<0.008	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	-	<0.0043	<0.0042	<0.009	-	-	<0.0042	<0.01	-	-	-	<0.0042	<0.008	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.0036	<0.004	-	-	-	<0.0037	<0.0037	-	-	<0.0035	<0.0036	<0.0036	-	-	<0.0035	<0.004
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	-	<0.0043	<0.0042	<0.006	-	-	<0.0042	<0.005	-	-	-	<0.0042	<0.003	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	-	<0.0043	<0.0042	<0.02	-	-	<0.0042	<0.01	-	-	-	<0.0042	<0.008	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.0036	<0.004	-	-	-	<0.0037	<0.0037	-	-	<0.0035	<0.0036	<0.0036	-	-	<0.0035	<0.004
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	-	<0.0043	<0.0042	<0.006	-	-	<0.0042	<0.005	-	-	-	<0.0042	<0.003	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0036	<0.004	<0.0043	<0.0042	0.002	<0.0037	<0.0037	<0.0042	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.0009	<0.0035	<0.002
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	-	<0.0043	<0.0042	<0.006	-	-	<0.0042	<0.003	-	-	-	<0.0042	<0.002	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	-	<0.0043	<0.0042	<0.006	-	-	<0.0042	<0.003	-	-	-	<0.0042	<0.002	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	-	<0.0043	<0.0042	<0.0009	-	-	<0.0042	<0.005	-	-	-	<0.0042	<0.003	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0036	<0.004	<0.0043	<0.0042	<0.002	<0.0037	<0.0037	<0.0042	<0.003	<0.0035	<0.0036	<0.0036	<0.0042	<0.002	<0.0035	<0.002
Perfluorobutanoic acid (PFBA)	NCL	NA	-	-	<0.0087	<0.0083	<0.005	-	-	<0.0083	<0.01	-	-	-	<0.0085	<0.005	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0036	<0.004	<0.0043	<0.0042	<0.002	<0.0037	<0.0037	<0.0042	<0.003	<0.0035	<0.0036	<0.0036	<0.0042	0.001 J	<0.0035	<0.002
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0036	<0.004	<0.0043	<0.0042	<0.0009	<0.0037	<0.0037	<0.0042	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.0009	<0.0035	<0.004
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0036	<0.004	<0.0043	<0.0042	<0.0009	<0.0037	<0.0037	<0.0042	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.0009	<0.0035	<0.002
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0036	<0.004	<0.0043	<0.0042	0.001	<0.0037	<0.0037	<0.0042	<0.003	<0.0035	<0.0036	<0.0036	<0.0042	<0.002	<0.0035	<0.002
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0036	<0.004	<0.0043	<0.0042	<0.0009	<0.0037	<0.0037	<0.0042	<0.003	<0.0035	<0.0036	<0.0036	<0.0042	<0.002	<0.0035	<0.002
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0036	<0.004	<0.0017	<0.0017	<0.0009	<0.0037	<0.0037	<0.0017	<0.002	<0.0035	<0.0036	<0.0036	<0.0017	<0.0009	<0.0035	<0.002
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0036	<0.004	<0.0043	<0.0042	0.002 J	<0.0037	<0.0037	<0.0042	0.01	<0.0035	<0.0036	<0.0036	<0.0042	0.0006 J	<0.0035	<0.002
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	ND	ND	0.002	ND	ND	ND	0.01	ND	ND	ND	ND	0.0006	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	-	<0.0043	<0.0042	0.001	-	-	<0.0042	<0.01	-	-	-	<0.0042	<0.005	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0036	<0.004	<0.0043	<0.0042	<0.0009	<0.0037	<0.0037	<0.0042	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.0009	<0.0035	<0.004
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0036	<0.004	<0.0043	<0.0042	<0.0009	<0.0037	<0.0037	<0.0042	<0.002	<0.0035	<0.0036	<0.0036	<0.0042	<0.0009	<0.0035	<0.004
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0036	<0.004	<0.0043	<0.0042	<0.002	<0.0037	<0.0037	<0.0042	<0.003	<0.0035	<0.0036	<0.0036	<0.0042	<0.002	<0.0035	<0.004
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	ND	ND	ND	0.006	ND	ND	ND	0.01	ND	ND	ND	ND	0.0016	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411003352009	411010101008	411010101008	411010101008	411010101008	411010101008	411010101008	411010101022	411010101022	411010101022	411010101022	411003352010	411003352010	411003352010	411003352010	411003352004
Address			2500 STRAWBERRY FARMS ST NE	2525 ROLLING MEADOW DR NE	2525 ROLLING MEADOW DR NE	2525 ROLLING MEADOW DR NE	2525 ROLLING MEADOW DR NE	2525 ROLLING MEADOW DR NE	2525 ROLLING MEADOW DR NE	2530 PERSIMMON PL NE	2530 PERSIMMON PL NE	2530 PERSIMMON PL NE	2530 PERSIMMON PL NE	2530 STRAWBERRY FARMS ST NE	2530 STRAWBERRY FARMS ST NE	2530 STRAWBERRY FARMS ST NE	2530 STRAWBERRY FARMS ST NE	2555 STRAWBERRY FARMS ST NE
Sample Name			2500 Strawberry Farms-IN-12/06	2525 Rolling Meadow	2525 Rolling Meadow-IN-12/13 Grab Potable Water	2525 Rolling Meadow-IN-6/13	2525 Rolling Meadow Dr-IN- 12/11	2525 Rolling Meadow-IN-6/11	2525 Rolling Meadow-IN-12/11	2530 PERSIMMON	2530 Persimmon - IN - 11/16 Grab Water	2530 Persimmon PI- IN-11/19	2530 Persimmon-IN- 11/05	2530 Strawberry Farm	2530 Strawberry Farm-IN-11/27 Grab Water	2530 Strawberry Farms NE-IN-11/26	2530 Strawberry Farms-IN-11/27	2555 Strawberry Farm
Matrix			POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water
Laboratory ID			UL07003-028	K1710498-026	9367792	TF14010-010	TL14038-002	UF13034-010	UL12061-004	K1710940-020	9326993	TK21038-001	UK07076-001	K1710423-011	9336564	TK29102-009	UK30009-001	K1710771-005
Sample Date			12/06/2019	09/28/2017	12/13/2017	06/13/2018	12/11/2018	06/11/2019	12/11/2019	10/06/2017	11/16/2017	11/19/2018	11/05/2019	09/26/2017	11/27/2017	11/26/2018	11/27/2019	10/04/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	<0.0042	<0.006	-	-	-	-	<0.0043	<0.006	-	-	<0.0042	<0.006	-	-	<0.0043
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	<0.0042	<0.009	-	-	-	-	<0.0043	<0.006	-	-	<0.0042	<0.006	-	-	<0.0043
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	<0.0042	<0.009	-	-	-	-	<0.0043	<0.008	-	-	<0.0042	<0.008	-	-	<0.0043
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.0038	-	-	<0.0037	<0.0037	<0.0037	<0.0035	-	-	<0.0036	<0.0041	-	-	<0.0036	<0.0035	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	<0.0042	<0.003	-	-	-	-	<0.0043	<0.006	-	-	<0.0042	<0.006	-	-	<0.0043
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	<0.0042	<0.009	-	-	-	-	<0.0043	<0.02	-	-	<0.0042	<0.02	-	-	<0.0043
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.0038	-	-	<0.0037	<0.0037	<0.0037	<0.0035	-	-	<0.0036	<0.0041	-	-	<0.0036	<0.0035	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	<0.0042	<0.003	-	-	-	-	<0.0043	<0.006	-	-	<0.0042	<0.006	-	-	<0.0043
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0038	<0.0042	0.001	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.0009	<0.0036	<0.0041	<0.0042	<0.0009	<0.0036	<0.0035	<0.0043
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	<0.0042	<0.002	-	-	-	-	<0.0043	<0.006	-	-	<0.0042	<0.006	-	-	<0.0043
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	<0.0042	<0.002	-	-	-	-	<0.0043	<0.006	-	-	<0.0042	<0.006	-	-	<0.0043
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	<0.0042	<0.003	-	-	-	-	<0.0043	<0.0009	-	-	<0.0042	<0.0009	-	-	<0.0043
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0038	<0.0042	<0.002	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.002	<0.0036	<0.0041	<0.0042	<0.002	<0.0036	<0.0035	<0.0043
Perfluorobutanoic acid (PFBA)	NCL	NA	-	<0.0083	<0.006	-	-	-	-	<0.0086	<0.005	-	-	<0.0083	<0.005	-	-	<0.0086
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0038	<0.0042	0.001 JB	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.002	<0.0036	<0.0041	<0.0042	<0.002	<0.0036	<0.0035	<0.0043
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0038	<0.0042	<0.0009	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.0009	<0.0036	<0.0041	<0.0042	<0.0009	<0.0036	<0.0035	<0.0043
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0038	<0.0042	<0.0009	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.0009	<0.0036	<0.0041	<0.0042	<0.0009	<0.0036	<0.0035	<0.0043
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0038	<0.0042	<0.002	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.0009	<0.0036	<0.0041	<0.0042	<0.0009	<0.0036	<0.0035	<0.0043
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0038	<0.0042	<0.002	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.0009	<0.0036	<0.0041	<0.0042	<0.0009	<0.0036	<0.0035	<0.0043
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0038	<0.0017	<0.0009	<0.0037	<0.0037	<0.0037	<0.0035	<0.0017	<0.0009	<0.0036	<0.0041	<0.0017	<0.0009	<0.0036	<0.0035	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0038	<0.0042	0.011	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	0.002 J	<0.0036	<0.0041	<0.0042	0.003 J	<0.0036	<0.0035	<0.0043
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	0.011	ND	ND	ND	ND	ND	0.002	ND	ND	ND	0.003	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	<0.0042	<0.006	-	-	-	-	<0.0043	<0.0009	-	-	<0.0042	<0.0009	-	-	<0.0043
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0038	<0.0042	<0.0009	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.0009	<0.0036	<0.0041	<0.0042	<0.0009	<0.0036	<0.0035	<0.0043
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0038	<0.0042	<0.0009	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.0009	<0.0036	<0.0041	<0.0042	<0.0009	<0.0036	<0.0035	<0.0043
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0038	<0.0042	<0.002	<0.0037	<0.0037	<0.0037	<0.0035	<0.0043	<0.002	<0.0036	<0.0041	<0.0042	<0.002	<0.0036	<0.0035	<0.0043
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	ND	0.013	ND	ND	ND	ND	ND	0.002	ND	ND	ND	0.003	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area				Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	
PPN				411003352004	411003352004	411003352004	411003352011	411003352011	411003352011	411003352011	411003352011	411003352011	411010101021	411010101021	411010101021	411010101021	411010200034	411010176018	411010151009
Address		Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	2555 STRAWBERRY FARMS ST NE	2555 STRAWBERRY FARMS ST NE	2555 STRAWBERRY FARMS ST NE	2560 STRAWBERRY FARMS ST NE	2560 STRAWBERRY FARMS ST NE	2560 STRAWBERRY FARMS ST NE	2560 STRAWBERRY FARMS ST NE	2560 STRAWBERRY FARMS ST NE	2560 STRAWBERRY FARMS ST NE	2570 PERSIMMON PL NE	2570 PERSIMMON PL NE	2570 PERSIMMON PL NE	2570 PERSIMMON PL NE	7262 PACKER DR NE	7265 PACKER DR NE	7275 BELMONT AVE NE
Sample Name				2555 Strawberry Farm-IN-1-10 Grab Potable Water	2555 Strawberry Farms-IN-1/9	2555 Strawberry Farms-IN-1/8	2560 Strawberry Farm	2560 Strawberry Farms-IN-12/14 Grab Water	2560 Strawberry Farms-IN-6/14	2560 Strawberry Farms-IN-12/13	2560 Strawberry Farms-IN-6/20	2560 Strawberry Farms-IN-12/10	2570 PERSIMMON	2570 Persimmons-IN-11/30 Grab Water	2570 Persimmon PI-IN-11/30	2570 Persimmon-IN-12/18	7262 Packer Dr. NE	7265 Packer Dr NE	WT1712121140MK
Matrix				POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	Drinking Water	Drinking Water
Laboratory ID				9403156	UA10025-007	VA09056-005	K1710423-012	9372268	TF15022-006	TL16009-007	UF22010-009	UL12039-004	K1710940-011	9346190	TL01020-001	UL19008-002	K1711964-001	K1711719-015	1701971-11
Sample Date				01/10/2018	01/09/2019	01/08/2020	09/26/2017	12/14/2017	06/14/2018	12/13/2018	06/20/2019	12/10/2019	10/05/2017	11/30/2017	11/30/2018	12/18/2019	11/01/2017	10/26/2017	12/12/2017
Parameter (µg/L)																			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.006	-	-	<0.0041	<0.005	-	-	-	<0.0043	<0.006	-	-	<0.0043	<0.0044	<0.00242		
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.008	-	-	<0.0041	<0.008	-	-	-	<0.0043	<0.008	-	-	<0.0043	<0.0044	<0.00242		
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.008	-	-	<0.0041	<0.008	-	-	-	<0.0043	<0.008	-	-	<0.0043	<0.0044	-		
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.0037	<0.0037	-	-	<0.0036	<0.0036	<0.0036	<0.0035	-	-	<0.0038	<0.0037	-	-		
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.003	-	-	<0.0041	<0.003	-	-	-	<0.0043	<0.003	-	-	<0.0043	<0.0044	-		
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.008	-	-	<0.0041	<0.008	-	-	-	<0.0043	<0.008	-	-	<0.0043	<0.0044	-		
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.0037	<0.0037	-	-	<0.0036	<0.0036	<0.0036	<0.0035	-	-	<0.0038	<0.0037	-	-		
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.003	-	-	<0.0041	<0.003	-	-	-	<0.0043	<0.003	-	-	<0.0043	<0.0044	-		
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0009	<0.0037	<0.0037	<0.0041	<0.0009	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.0009	<0.0038	<0.0037	<0.0043	<0.0044	0.00118	
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.002	-	-	<0.0041	<0.002	-	-	-	<0.0043	<0.002	-	-	<0.0043	<0.0044	<0.00242		
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.00727	
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.002	-	-	<0.0041	<0.002	-	-	-	<0.0043	<0.002	-	-	<0.0043	<0.0044	<0.00242		
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.003	-	-	<0.0041	<0.003	-	-	-	<0.0043	<0.003	-	-	<0.0043	<0.0044	<0.00242		
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.002	<0.0037	<0.0037	<0.0041	<0.002	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.002	<0.0038	<0.0037	<0.0043	<0.0044	0.00049	
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.006	-	-	<0.0081	<0.005	-	-	-	<0.0086	<0.006	-	-	<0.0086	<0.0088	<0.00242		
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.002	<0.0037	<0.0037	<0.0041	<0.002	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.002	<0.0038	<0.0037	<0.0043	<0.0044	<0.00242	
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0009	<0.0037	<0.0037	<0.0041	<0.0009	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.0009	<0.0038	<0.0037	<0.0043	<0.0044	<0.00242	
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0009	<0.0037	<0.0037	<0.0041	<0.0009	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.0009	<0.0038	<0.0037	<0.0043	<0.0044	<0.00242	
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.002	<0.0037	<0.0037	<0.0041	<0.002	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.002	<0.0038	<0.0037	<0.0043	<0.0044	<0.00242	
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.002	<0.0037	<0.0037	<0.0041	<0.002	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.002	<0.0038	<0.0037	<0.0043	<0.0044	<0.00242	
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0009	<0.0037	<0.0037	<0.0016	<0.0009	<0.0036	<0.0036	<0.0036	<0.0035	<0.0017	<0.0009	<0.0038	<0.0037	<0.0017	<0.0018	0.00095	
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.0007 J	<0.0037	<0.0037	<0.0041	0.011	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	0.001 J	<0.0038	<0.0037	<0.0043	<0.0044	0.00055	
PFOA + PFOS (Calculated)	0.07	NA	0.0007	ND	ND	ND	0.011	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0015	
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.006	-	-	<0.0041	<0.005	-	-	-	<0.0043	<0.006	-	-	<0.0043	<0.0044	<0.00242		
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0009	<0.0037	<0.0037	<0.0041	<0.0009	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.0009	<0.0038	<0.0037	<0.0043	<0.0044	<0.00242	
Perfluorotridecanoic acid (PFTriDA)	NCL	NA	<0.0009	<0.0037	<0.0037	<0.0041	<0.0009	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.0009	<0.0038	<0.0037	<0.0043	<0.0044	<0.00242	
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.002	<0.0037	<0.0037	<0.0041	<0.002	<0.0036	<0.0036	<0.0036	<0.0035	<0.0043	<0.002	<0.0038	<0.0037	<0.0043	<0.0044	<0.00242	
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.00242	
Total PFAS (Calculated)	NCL	NA	0.0007	ND	ND	ND	0.011	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0032	

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010151009	411010151009	411010151009	411010151009	411010176008	411010200028	411010176019	411010151018	411010151018	411010151018	411010151018	411010151018	411010151018	411010200007	411010176006	411010151022
Address			7275 BELMONT AVE NE	7275 BELMONT AVE NE	7275 BELMONT AVE NE	7275 BELMONT AVE NE	7280 BELMONT AVE NE	7280 PACKER DR NE	7295 PACKER DR NE	7296 HICKORY TRL NE	7296 HICKORY TRL NE	7296 HICKORY TRL NE	7296 HICKORY TRL NE	7296 HICKORY TRL NE	7296 HICKORY TRL NE	7300 PACKER DR NE	7301 PACKER DR NE	7303 HICKORY TRL NE
Sample Name			7275 Belmont-IN-1/16 Grab Potable Water	7275 BELMONT-IN-8/21	7275 Belmont-IN-2/19	7275 Belmont-IN-8/21	7280 Belmont Ave NE	7280 Packer Dr NE	7275 Packer Dr NE	7296 HICKORY TRAIL	7296 Hickory Trail-IN 2/8 Grab Potable Water	7296 HICKORY TRAIL-IN-8/13	7296 Hickory Trail-IN 2/11	7296 Hickory Trail-IN 8/27	7296 Hickory Trail-IN 2/13	7300 Packer Dr NE	7301 Packer Dr NE	7303 HICKORY TRAIL
Matrix			POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	Drinking Water	Drinking Water	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	Drinking Water	Drinking Water
Laboratory ID			9412856	JC72317-5	UB21020-002	UH22025-002	K1711613-001	K1711658-009	K1711957-001	K1710940-014	9450675	L1831643-08	UB14062-002	UH29007-009	VB15014-009	K1711658-012	K1711719-001	K1710940-017
Sample Date			01/16/2018	08/21/2018	02/19/2019	08/21/2019	10/24/2017	10/25/2017	11/02/2017	10/05/2017	02/08/2018	08/13/2018	02/11/2019	08/27/2019	02/13/2020	10/25/2017	10/26/2017	10/05/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.006	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.006	-	-	-	-	<0.0042	<0.0044	<0.0043
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.008	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.009	-	-	-	-	<0.0042	<0.0044	<0.0043
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.008	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.009	-	-	-	-	<0.0042	<0.0044	<0.0043
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.008	<0.004	<0.0037	-	-	-	-	-	<0.0044	<0.0038	<0.0041	<0.004	-	-	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.003	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.003	-	-	-	-	<0.0042	<0.0044	<0.0043
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.008	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.009	-	-	-	-	<0.0042	<0.0044	<0.0043
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.008	<0.004	<0.0037	-	-	-	-	-	<0.0044	<0.0038	<0.0041	<0.004	-	-	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.003	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.003	-	-	-	-	<0.0042	<0.0044	<0.0043
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	0.002	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	0.003	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	0.0047
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.002	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.002	-	-	-	-	<0.0042	<0.0044	<0.0043
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.002	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.002	-	-	-	-	<0.0042	<0.0044	<0.0043
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.003	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.003	-	-	-	-	<0.0042	<0.0044	<0.0043
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	0.0008 J	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	0.001 J	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.006	-	-	-	<0.0086	<0.011	<0.0085	<0.0085	<0.006	-	-	-	-	<0.0083	<0.0088	<0.0086
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.002	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	<0.002	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0009	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	<0.001	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0009	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	0.001	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.002	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	0.003	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.002	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	<0.002	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0009	<0.004	<0.004	<0.0037	<0.0017	<0.0021	<0.0017	0.0022	0.002	<0.0044	<0.0038	<0.0041	<0.004	<0.0017	<0.0018	0.0059
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.006	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	0.004	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
PFOA + PFOS (Calculated)	0.07	NA	0.006	ND	ND	ND	ND	ND	ND	0.0022	0.006	ND	ND	ND	ND	ND	ND	0.0059
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.006	-	-	-	<0.0043	<0.0054	<0.0042	<0.0042	<0.006	-	-	-	-	<0.0042	<0.0044	<0.0043
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0009	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	<0.001	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
Perfluorotridecanoic acid (PFTTrDA)	NCL	NA	<0.0009	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	<0.001	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.002	<0.004	<0.004	<0.0037	<0.0043	<0.0054	<0.0042	<0.0042	<0.002	<0.0044	<0.0038	<0.0041	<0.004	<0.0042	<0.0044	<0.0043
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0088	ND	ND	ND	ND	ND	ND	0.0022	0.014	ND	ND	ND	ND	ND	ND	0.011

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010151022	411010151022	411010151022	411010151022	411010151022	411010151017	411010151017	411010151017	411010151017	411010151017	411010151017	411010151006	411010151006	411010151006	411010151006	411010151006
Address			7303 HICKORY TRL NE	7303 HICKORY TRL NE	7303 HICKORY TRL NE	7303 HICKORY TRL NE	7303 HICKORY TRL NE	7304 HICKORY TRL NE	7304 HICKORY TRL NE	7304 HICKORY TRL NE	7304 HICKORY TRL NE	7304 HICKORY TRL NE	7304 HICKORY TRL NE	7305 HICKORY TRL NE	7305 HICKORY TRL NE	7305 HICKORY TRL NE	7305 HICKORY TRL NE	7305 HICKORY TRL NE
Sample Name			7303 Hickory Trail-2	7303 Hickory Trail-IN 12/20 Grab Potable Water	7303 HICKORY TRAIL DR NE-IN-9/5	7303 Hickory Trail-IN 3/11	7303 Hickory Trail-IN 9/5	7304 HICKORY TRAIL	7304 Hickory Trail Dr NE-IN-1/4 Grab Potable Water	7304 HICKORY TRAIL DR NE-IN-9/6	7304 Hickory Trail-IN 3/26	7304 Hickory Trail-IN 10/15	7305 HICKORY TRAIL	7305 Hickory Trail Dr NE-IN-12/22 Grab Water	7305 Hickory Trail-IN 6/25	7305 Hickory Trail-IN 2/8	7305 Hickory Trail-IN 8/15	7305 Hickory Trail-IN 2/11
Matrix			Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent
Laboratory ID			K1711414-004	9381482	JC73203-6	UC14030-004	UI07029-005	K1710940-015	9396607	JC73467-5	UC28014-007	UJ17067-008	K1710940-016	9385724	TF26018-013	UB09014-001	UH16058-010	VB13012-005
Sample Date			10/19/2017	12/20/2017	09/05/2018	03/11/2019	09/05/2019	10/05/2017	01/04/2018	09/06/2018	03/26/2019	10/15/2019	10/05/2017	12/22/2017	06/25/2018	02/08/2019	08/15/2019	02/11/2020
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0042	<0.006	-	-	-	<0.0043	<0.006	-	-	-	<0.0043	<0.006	-	-	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0042	<0.008	-	-	-	<0.0043	<0.008	-	-	-	<0.0043	<0.008	-	-	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0042	<0.008	-	-	-	<0.0043	<0.008	-	-	-	<0.0043	<0.008	-	-	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	<0.008	<0.0041	<0.0037	-	-	<0.008	<0.0038	<0.0038	-	-	<0.0036	<0.0036	<0.0036	<0.0037
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0042	<0.003	-	-	-	<0.0043	<0.003	-	-	-	<0.0043	<0.003	-	-	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0042	<0.008	-	-	-	<0.0043	<0.008	-	-	-	<0.0043	<0.008	-	-	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	<0.008	<0.0041	<0.0037	-	-	<0.008	<0.0038	<0.0038	-	-	<0.0036	<0.0036	<0.0036	<0.0037
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0042	<0.003	-	-	-	<0.0043	<0.003	-	-	-	<0.0043	<0.003	-	-	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0042	0.005	0.00523	<0.0041	0.004	<0.0043	0.003	<0.004	0.0041	0.0042	0.007	0.008	0.0073	0.0081	0.006	0.0071
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0042	<0.002	-	-	-	<0.0043	<0.002	-	-	-	<0.0043	<0.002	-	-	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0042	<0.002	-	-	-	<0.0043	<0.002	-	-	-	<0.0043	<0.002	-	-	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0042	<0.003	-	-	-	<0.0043	<0.003	-	-	-	<0.0043	<0.003	-	-	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0042	0.004	0.00433	<0.0041	<0.0037	<0.0043	0.001 J	<0.004	<0.0038	<0.0038	<0.0043	0.003	<0.0036	<0.0036	<0.0036	<0.0037
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0083	<0.006	-	-	-	<0.0086	<0.006	-	-	-	<0.0087	0.002 J	-	-	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0042	<0.002	<0.004	<0.0041	<0.0037	<0.0043	<0.002	<0.004	<0.0038	<0.0038	<0.0043	<0.002	<0.0036	<0.0036	<0.0036	<0.0037
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0042	<0.0009	<0.004	<0.0041	<0.0037	<0.0043	<0.0009	<0.004	<0.0038	<0.0038	<0.0043	<0.0009	<0.0036	<0.0036	<0.0036	<0.0037
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0042	0.002	<0.004	<0.0041	<0.0037	<0.0043	<0.0009	<0.004	<0.0038	<0.0038	<0.0043	0.001	<0.0036	<0.0036	<0.0036	<0.0037
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0042	0.002	<0.004	<0.0041	<0.0037	<0.0043	0.001 J	<0.004	<0.0038	<0.0038	<0.0043	0.003	<0.0036	<0.0036	<0.0036	<0.0037
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0042	<0.002	<0.004	<0.0041	<0.0037	<0.0043	<0.002	<0.004	<0.0038	<0.0038	<0.0043	<0.002	<0.0036	<0.0036	<0.0036	<0.0037
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.0037	0.005	0.00429	<0.0041	0.0041	<0.0017	0.0005 J	<0.004	<0.0038	<0.0038	0.0032	0.003	<0.0036	0.0046	<0.0036	0.0037
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0042	0.003	<0.004	<0.0041	<0.0037	<0.0043	0.002	<0.004	<0.0038	<0.0038	<0.0043	0.009	0.005	0.0064	<0.0036	<0.0037
PFOA + PFOS (Calculated)	0.07	NA	0.0037	0.008	0.0043	ND	0.0041	ND	0.0025	ND	ND	ND	0.0032	0.012	0.005	0.011	ND	0.0037
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0042	<0.006	-	-	-	<0.0043	<0.006	-	-	-	<0.0043	0.004 J	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0042	<0.0009	<0.004	<0.0041	<0.0037	<0.0043	<0.0009	<0.004	<0.0038	<0.0038	<0.0043	<0.0009	<0.0036	<0.0036	<0.0036	<0.0037
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0042	<0.0009	<0.004	<0.0041	<0.0037	<0.0043	<0.0009	<0.004	<0.0038	<0.0038	<0.0043	<0.0009	<0.0036	<0.0036	<0.0036	<0.0037
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0042	<0.002	<0.004	<0.0041	<0.0037	<0.0043	<0.002	<0.004	<0.0038	<0.0038	<0.0043	<0.002	<0.0036	<0.0036	<0.0036	<0.0037
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0037	0.021	0.014	ND	0.0081	ND	0.0075	ND	0.0041	0.0042	0.01	0.033	0.012	0.019	0.006	0.011

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010151004	411010151004	411010151004	411010151004	411010151004	411010151004	411010151004	411010151023	411010151023	411010151023	411010151023	411010151023	411010151023	411010151024	411010151024	411010151024
Address			7307 HICKORY TRL NE	7307 HICKORY TRL NE	7307 HICKORY TRL NE	7307 HICKORY TRL NE	7307 HICKORY TRL NE	7307 HICKORY TRL NE	7307 HICKORY TRL NE	7309 HICKORY TRL NE	7309 HICKORY TRL NE	7309 HICKORY TRL NE	7309 HICKORY TRL NE	7309 HICKORY TRL NE	7309 HICKORY TRL NE	7311 HICKORY TRL NE	7311 HICKORY TRL NE	7311 HICKORY TRL NE
Sample Name			7307 Hickory Lane	7307 Hickory Trl-IN-1/16 Grab Potable Water	7307 Hickory Trail-IN-7/17	7307 Hickory Trail-IN-1/14	7307 Hickory Trail-IN-7/18	7307 Hickory Trail-IN-1/15	7309 Hickory Trail	7309 Hickory Trail Dr NE-IN-121817 Grab Water	7309 Hickory Trail-IN-6/18	7309 Hickory Trail Dr NE-IN-12/17	7309 Hickory Trail-IN-7/10	7309 Hickory Trail-IN-1/29	7311 Hickory Lane	7311 Hickory Trail-IN-11/27 Grab Water	7311 Hickoy Trail Dr NE-IN-11/27	7311 Hickory Trail-IN-11/27
Matrix			Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent
Laboratory ID			K1711115-004	9412862	TG19013-003	UA17009-002	UG20006-002	VA16020-004	K1711115-012	9381500	TF19013-010	TL21044-003	UG11012-008	VA30055-004	K1711115-005	9336561	TK30001-004	UK30003-007
Sample Date			10/10/2017	01/16/2018	07/17/2018	01/14/2019	07/18/2019	01/15/2020	10/12/2017	12/18/2017	06/18/2018	12/17/2018	07/10/2019	01/29/2020	10/10/2017	11/27/2017	11/27/2018	11/27/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0043	<0.006	-	-	-	-	<0.0043	<0.006	-	-	-	-	<0.0043	<0.006	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0043	<0.008	-	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0043	<0.006	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0043	<0.008	-	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0043	<0.009	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	<0.0035	<0.0037	<0.0038	<0.0037	-	-	<0.0037	<0.0037	<0.0033	<0.0035	-	-	<0.0037	<0.0035
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0043	<0.003	-	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0043	<0.006	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0043	<0.008	-	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0043	<0.02	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	<0.0035	<0.0037	<0.0038	<0.0037	-	-	<0.0037	<0.0037	<0.0033	<0.0035	-	-	<0.0037	<0.0035
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0043	<0.003	-	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0043	<0.006	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	0.0052	0.007	0.0043	0.0057	0.0062	0.0059	0.005	0.006	0.0051	0.0052	0.0056	0.0057	0.006	0.004	<0.0037	0.0042
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0043	<0.002	-	-	-	-	<0.0043	<0.002	-	-	-	-	<0.0043	<0.006	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0043	<0.002	-	-	-	-	<0.0043	<0.002	-	-	-	-	<0.0043	<0.006	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0043	<0.003	-	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0043	<0.001	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0043	0.003	<0.0035	<0.0037	<0.0038	<0.0037	<0.0043	0.002	<0.0037	<0.0037	<0.0033	<0.0035	<0.0043	0.002 J	<0.0037	<0.0035
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0086	0.002 J	-	-	-	-	<0.0086	<0.006	-	-	-	-	<0.0086	<0.005	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0043	<0.002	<0.0035	<0.0037	<0.0038	<0.0037	<0.0043	<0.002	<0.0037	<0.0037	<0.0033	<0.0035	<0.0043	<0.002	<0.0037	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0043	<0.0009	<0.0035	<0.0037	<0.0038	<0.0037	<0.0043	<0.0009	<0.0037	<0.0037	<0.0033	<0.0035	<0.0043	<0.001	<0.0037	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0043	0.0009 J	<0.0035	<0.0037	<0.0038	<0.0037	<0.0043	0.001	<0.0037	<0.0037	<0.0033	<0.0035	<0.0043	<0.001	<0.0037	<0.0035
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0043	0.002	<0.0035	<0.0037	<0.0038	<0.0037	<0.0043	0.003	<0.0037	<0.0037	<0.0033	0.004	<0.0043	0.001	<0.0037	<0.0035
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0043	<0.002	<0.0035	<0.0037	<0.0038	<0.0037	<0.0043	<0.002	<0.0037	<0.0037	<0.0033	<0.0035	<0.0043	<0.001	<0.0037	<0.0035
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.0032	0.003	<0.0035	<0.0037	<0.0038	<0.0037	0.0021	0.002	<0.0037	<0.0037	<0.0033	<0.0035	<0.0017	0.0005 J	<0.0037	<0.0035
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0043	0.007	0.0042	<0.0037	<0.0038	<0.0037	0.0043	0.005	<0.0037	<0.0037	<0.0033	<0.0035	<0.0043	0.001 J	<0.0037	<0.0035
PFOA + PFOS (Calculated)	0.07	NA	0.0032	0.01	0.0042	ND	ND	ND	0.0021	0.007	ND	ND	ND	ND	ND	0.0015	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0043	0.003 J	-	-	-	-	<0.0043	0.003 J	-	-	-	-	<0.0043	0.0009 J	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0043	<0.0009	<0.0035	<0.0037	<0.0038	<0.0037	<0.0043	<0.0009	<0.0037	<0.0037	<0.0033	<0.0035	<0.0043	<0.001	<0.0037	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0043	<0.0009	<0.0035	<0.0037	<0.0038	<0.0037	<0.0043	<0.0009	<0.0037	<0.0037	<0.0033	<0.0035	<0.0043	<0.001	<0.0037	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0043	<0.002	<0.0035	<0.0037	<0.0038	<0.0037	<0.0043	<0.002	<0.0037	<0.0037	<0.0033	<0.0035	<0.0043	<0.002	<0.0037	<0.0035
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0084	0.028	0.0085	0.0057	0.0062	0.0059	0.0071	0.022	0.0051	0.0052	0.0056	0.0097	0.006	0.0094	ND	0.0042

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010176016	411010151007	411010151007	411010151007	411010151007	411010151007	411010151007	411010151012	411010151012	411010151012	411010151012	411010176015	411010176015	411010176015	411010176015	411010176015
Address			7315 PACKER DR NE	7319 BELMONT AVE NE	7319 BELMONT AVE NE	7319 BELMONT AVE NE	7319 BELMONT AVE NE	7319 BELMONT AVE NE	7319 BELMONT AVE NE	7335 BELMONT AVE NE	7335 BELMONT AVE NE	7335 BELMONT AVE NE	7335 BELMONT AVE NE	7349 PACKER DR NE	7349 PACKER DR NE	7349 PACKER DR NE	7349 PACKER DR NE	7349 PACKER DR NE
Sample Name			7315 Packer Dr NE	7319 Belmont	7319 Belmont-IN-12/11 Grab Water	7319 Belmont-IN-6/11	7319 Belmont Ave NE-IN-12/13	7319 Belmont-IN-6/12	7319 Belmont-IN-1/3	7335 Belmont	7335 Belmont-IN-12/12 Grab Water	7335 Belmont-IN-12/28	7335 Belmont-IN-12/31	7349 Packer Drive NE	7349 Packer Dr NE-IN-12/22 Grab Potable Water	7349 PACKER-IN-8/8	7349 Packer-IN-2/6	7349 Packer-IN-8/14
Matrix			Drinking Water	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent
Laboratory ID			K1711719-014	K1711414-003	9362367	TF12019-006	TL16005-002	UF13046-008	VA04008-001	K1710610-003	9367880	TL29002-007	VA04011-001	K1711614-003	9385718	L1830962-02	UB07042-005	UH16040-007
Sample Date			10/26/2017	10/19/2017	12/11/2017	06/11/2018	12/13/2018	06/12/2019	01/03/2020	09/29/2017	12/12/2017	12/28/2018	12/31/2019	10/24/2017	12/22/2017	08/08/2018	02/06/2019	08/14/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0043	<0.0042	<0.006	-	-	-	-	<0.0043	<0.006	-	-	<0.0042	<0.006	-	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0043	<0.0042	<0.009	-	-	-	-	<0.0043	<0.009	-	-	<0.0042	<0.009	-	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0043	<0.0042	<0.009	-	-	-	-	<0.0043	<0.009	-	-	<0.0042	<0.009	-	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	-	<0.0037	<0.0037	<0.0036	<0.0037	-	-	<0.0038	<0.0038	-	-	<0.00394	<0.0037	<0.0038
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0043	<0.0042	<0.003	-	-	-	-	<0.0043	<0.003	-	-	<0.0042	<0.003	-	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0043	<0.0042	<0.009	-	-	-	-	<0.0043	<0.009	-	-	<0.0042	<0.009	-	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	-	<0.0037	<0.0037	<0.0036	<0.0037	-	-	<0.0038	<0.0038	-	-	<0.00394	<0.0037	<0.0038
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0043	<0.0042	<0.003	-	-	-	-	<0.0043	<0.003	-	-	<0.0042	<0.003	-	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0043	<0.0042	0.002 E	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	0.003	<0.0038	<0.0038	<0.0042	0.003	<0.00394	<0.0037	<0.0038
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0043	<0.0042	<0.002	-	-	-	-	<0.0043	<0.002	-	-	<0.0042	<0.002	-	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0043	<0.0042	<0.002	-	-	-	-	<0.0043	<0.002	-	-	<0.0042	<0.002	-	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0043	<0.0042	<0.003	-	-	-	-	<0.0043	<0.003	-	-	<0.0042	<0.003	-	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0043	<0.0042	0.0005 J	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	0.002	<0.0038	<0.0038	0.0043	0.004	<0.00394	<0.0037	<0.0038
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0086	<0.0083	<0.006	-	-	-	-	<0.0087	0.003 J	-	-	<0.0083	0.002 J	-	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0043	<0.0042	<0.002	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	<0.002	<0.0038	<0.0038	<0.0042	<0.002	<0.00394	<0.0037	<0.0038
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0043	<0.0042	<0.001	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	<0.001	<0.0038	<0.0038	<0.0042	<0.001	<0.00394	<0.0037	<0.0038
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0043	<0.0042	<0.001	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	0.003	<0.0038	<0.0038	<0.0042	<0.001	<0.00394	<0.0037	<0.0038
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0043	<0.0042	<0.002	<0.0037	<0.0037	<0.0036	<0.0037	0.0055	0.007	0.0072	0.0049	<0.0042	<0.002	<0.00394	<0.0037	<0.0038
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0043	<0.0042	<0.002	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	<0.002	<0.0038	<0.0038	<0.0042	<0.002	<0.00394	<0.0037	<0.0038
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0017	<0.0017	<0.001	<0.0037	<0.0037	<0.0036	<0.0037	<0.0017	0.0007 J	<0.0038	<0.0038	<0.0017	0.0004 J	<0.00394	<0.0037	<0.0038
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0043	<0.0042	0.008 E	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	0.001 J	<0.0038	<0.0038	<0.0042	0.007	<0.00394	<0.0037	<0.0038
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	0.008	ND	ND	ND	ND	ND	0.0017	ND	ND	ND	0.0074	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0043	<0.0042	<0.006	-	-	-	-	0.0069	0.006	-	-	<0.0042	<0.006	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0043	<0.0042	<0.001	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	<0.001	<0.0038	<0.0038	<0.0042	<0.001	<0.00394	<0.0037	<0.0038
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0043	<0.0042	<0.001	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	<0.001	<0.0038	<0.0038	<0.0042	<0.001	<0.00394	<0.0037	<0.0038
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0043	<0.0042	<0.002	<0.0037	<0.0037	<0.0036	<0.0037	<0.0043	<0.002	<0.0038	<0.0038	<0.0042	<0.002	<0.00394	<0.0037	<0.0038
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	ND	0.011	ND	ND	ND	ND	0.012	0.026	0.0072	0.0049	0.0043	0.016	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010176015	411010176001	411010176001	411010151011	411010151011	411010151011	411010151003	411010151003	411010151003	411010151003	411010151003	411010200003	411010200031	411010200030	411010176011	411010101026
Address			7349 PACKER DR NE	7350 BELMONT AVE NE	7350 BELMONT AVE NE	7363 BELMONT AVE NE	7363 BELMONT AVE NE	7363 BELMONT AVE NE	7385 BELMONT AVE NE	7385 BELMONT AVE NE	7385 BELMONT AVE NE	7385 BELMONT AVE NE	7385 BELMONT AVE NE	7390 PACKER DR NE	7400 PACKER DR NE	7402 PACKER DR NE	7429 PACKER DR NE	7447 CLOUDBERRY LN NE
Sample Name			7349 Packer-IN-2/19	7350 Belmont Ave NE	WR1904051220JLB	7363 Belmont	7363 BELMONT-IN- 7/27	7363 Belmont-IN- 7/30	7385 Belmont	7385 Belmont Ave NE-IN-1/3 Grab Potable Water	7385 Belmont-IN- 7/13	7385 Belmont-IN- 2/28	7385 Belmont-IN- 8/28	7390 Packer Dr NE	7400 Packer Dr NE	7402 Packer Dr NE	7429 Packer Dr NE	7447 CLOUDBERRY
Matrix			POET Influent	Drinking Water	Drinking Water	Drinking Water	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water
Laboratory ID			VB21018-004	K1711719-020	1900748-01	K1710610-004	L1829211-08	UH01062-003	K1710610-005	9395437	TG14030-004	UC02019-002	UH29006-007	K1711658-013	K1711719-011	K1711719-012	K1711719-013	K1710695-023
Sample Date			02/19/2020	10/26/2017	04/05/2019	09/29/2017	07/27/2018	07/30/2019	09/29/2017	01/03/2018	07/13/2018	02/28/2019	08/28/2019	10/25/2017	10/26/2017	10/26/2017	10/26/2017	10/03/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.006	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.008	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.008	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.0039	-	<0.004	-	<0.0037	<0.0038	-	-	<0.0035	<0.0038	<0.004	-	-	-	-	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.003	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.008	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.0039	-	<0.004	-	<0.0037	<0.0038	-	-	<0.0035	<0.0038	<0.004	-	-	-	-	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.003	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	0.004	<0.0043	<0.002	<0.0043	<0.0037	<0.0038	<0.0043	<0.0009	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.002	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.002	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.003	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0039	<0.0043	<0.002	<0.0043	<0.0037	<0.0038	<0.0043	<0.002	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorobutanoic acid (PFBA)	NCL	NA	-	<0.0086	-	<0.0087	-	-	<0.0086	<0.006	-	-	-	<0.011	<0.0095	<0.0086	<0.0086	<0.0086
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0039	<0.0043	<0.002	<0.0043	<0.0037	<0.0038	<0.0043	<0.002	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0039	<0.0043	<0.004	<0.0043	<0.0037	<0.0038	<0.0043	<0.0009	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0039	<0.0043	<0.002	<0.0043	<0.0037	<0.0038	<0.0043	<0.0009	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0039	<0.0043	<0.002	<0.0043	<0.0037	<0.0038	<0.0043	<0.002	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0039	<0.0043	<0.002	<0.0043	<0.0037	<0.0038	<0.0043	<0.002	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0039	<0.0017	<0.002	<0.0017	<0.0037	<0.0038	<0.0017	<0.0009	<0.0035	<0.0038	<0.004	<0.0021	<0.0019	<0.0017	<0.0017	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0039	<0.0043	<0.002	<0.0043	<0.0037	<0.0038	<0.0043	0.003	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	<0.0043	-	<0.0043	-	-	<0.0043	<0.006	-	-	-	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0039	<0.0043	<0.004	<0.0043	<0.0037	<0.0038	<0.0043	<0.0009	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorotridecanoic acid (PFTriDA)	NCL	NA	<0.0039	<0.0043	<0.004	<0.0043	<0.0037	<0.0038	<0.0043	<0.0009	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0039	<0.0043	<0.004	<0.0043	<0.0037	<0.0038	<0.0043	<0.002	<0.0035	<0.0038	<0.004	<0.0054	<0.0048	<0.0043	<0.0043	<0.0043
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.004	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010101026	411010101026	411010101026	411010101026	411010176010	411010101012	411010101012	411010101012	411010101012	411010101012	411010101012	411010176012	411010101020	411010101020	411010101020	411010101020
Address			7447 CLOUDBERRY LN NE	7447 CLOUDBERRY LN NE	7447 CLOUDBERRY LN NE	7447 CLOUDBERRY LN NE	7455 PACKER DR NE	7460 STEEPLEBUSH LN NE	7460 STEEPLEBUSH LN NE	7460 STEEPLEBUSH LN NE	7460 STEEPLEBUSH LN NE	7460 STEEPLEBUSH LN NE	7460 STEEPLEBUSH LN NE	7461 PACKER DR NE	7465 STEEPLEBUSH LN NE	7465 STEEPLEBUSH LN NE	7465 STEEPLEBUSH LN NE	7465 STEEPLEBUSH LN NE
Sample Name			7447 Cloudyberry-IN-1/9 Grab Potable Water	7447 Cloudberry-IN-7/25	7447 Cloudberry-IN-4/11	7447 Cloudberry-IN-10/22	7455 Packer Dr. NE	7460 Steeplebush	7460 Steeplebush-IN 12/8 Grab Water	7460 Steeplebush-IN6/8	7460 Steeplebush Ln NE-IN-12/7	7460 Steeplebush-IN 6/5	7460 Steeplebush-IN 12/30	7461 Packer Drive NE	7465 Steeplebush	7465 Steeplebush-IN 12/1 Grab Water	7465 Steeplebush-IN 6/4	7465 Steeplebush Ln NE-IN-12/7
Matrix			POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	Drinking Water	POET Influent	POET Influent	POET Influent
Laboratory ID			9403175	TG26027-004	UD13005-002	UJ24034-010	K1711964-006	K1711232-001	9362354	TF09012-004	TL08011-002	UF06045-005	UL31008-006	K1711614-002	K1710498-027	9346209	TF05011-002	TL08011-008
Sample Date			01/09/2018	07/25/2018	04/11/2019	10/22/2019	11/01/2017	10/13/2017	12/08/2017	06/08/2018	12/07/2018	06/05/2019	12/30/2019	10/24/2017	09/28/2017	12/01/2017	06/04/2018	12/07/2018
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.005	-	-	-	<0.0041	<0.0043	<0.01	-	-	-	-	<0.0041	<0.0042	<0.01	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.008	-	-	-	<0.0041	<0.0043	<0.01	-	-	-	-	<0.0041	<0.0042	<0.01	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.008	-	-	-	<0.0041	<0.0043	<0.01	-	-	-	-	<0.0041	<0.0042	<0.01	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.0036	<0.0036	<0.0036	-	-	-	<0.0036	<0.0035	<0.0039	<0.0036	-	-	-	<0.0037	<0.0036
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.003	-	-	-	<0.0041	<0.0043	<0.005	-	-	-	-	<0.0041	<0.0042	<0.005	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.008	-	-	-	<0.0041	<0.0043	<0.01	-	-	-	-	<0.0041	<0.0042	<0.01	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.0036	<0.0036	<0.0036	-	-	-	<0.0036	<0.0035	<0.0039	<0.0036	-	-	-	<0.0037	<0.0036
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.003	-	-	-	<0.0041	<0.0043	<0.005	-	-	-	-	<0.0041	<0.0042	<0.005	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0009	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	<0.002	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	0.002	<0.0037	<0.0036
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.002	-	-	-	<0.0041	<0.0043	<0.003	-	-	-	-	<0.0041	<0.0042	<0.003	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.002	-	-	-	<0.0041	<0.0043	<0.003	-	-	-	-	<0.0041	<0.0042	<0.003	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.003	-	-	-	<0.0041	<0.0043	<0.005	-	-	-	-	<0.0041	<0.0042	<0.005	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.002	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	<0.003	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	<0.003	<0.0037	<0.0036
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.005	-	-	-	<0.0082	<0.0086	<0.01	-	-	-	-	<0.0081	<0.0083	<0.01	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.002	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	0.002 J	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	0.002 J	<0.0037	<0.0036
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0009	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	<0.002	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	<0.002	<0.0037	<0.0036
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0009	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	<0.002	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	0.0006 J	<0.0037	<0.0036
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.002	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	<0.003	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	0.001 J	<0.0037	<0.0036
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.002	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	<0.003	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	<0.003	<0.0037	<0.0036
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0009	<0.0036	<0.0036	<0.0036	<0.0016	<0.0017	<0.002	<0.0036	<0.0035	<0.0039	<0.0036	<0.0016	0.0024	0.002	<0.0037	<0.0036
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.004	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	0.007	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	0.001 J	<0.0037	<0.0036
PFOA + PFOS (Calculated)	0.07	NA	0.004	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	0.0024	0.003	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.005	-	-	-	<0.0041	<0.0043	<0.01	-	-	-	-	<0.0041	<0.0042	<0.01	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0009	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	<0.002	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	<0.002	<0.0037	<0.0036
Perfluorotridecanoic acid (PFTriDA)	NCL	NA	<0.0009	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	<0.002	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	<0.002	<0.0037	<0.0036
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.002	<0.0036	<0.0036	<0.0036	<0.0041	<0.0043	<0.003	<0.0036	<0.0035	<0.0039	<0.0036	<0.0041	<0.0042	<0.003	<0.0037	<0.0036
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.004	ND	ND	ND	ND	ND	0.009	ND	ND	ND	ND	ND	0.0024	0.0086	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010101020	411010101020	411010176002	411010101027	411010101027	411010101027	411010101027	411010101027	411010101027	411010101027	411010101011	411010101011	411010101011	411010101011	411010101011	411010101019
Address			7465 STEEPLEBUSH LN NE	7465 STEEPLEBUSH LN NE	7475 PACKER DR NE	7485 CLOUDBERRY LN NE	7485 CLOUDBERRY LN NE	7485 CLOUDBERRY LN NE	7485 CLOUDBERRY LN NE	7485 CLOUDBERRY LN NE	7485 CLOUDBERRY LN NE	7485 CLOUDBERRY LN NE	7490 STEEPLEBUSH LN NE	7490 STEEPLEBUSH LN NE	7490 STEEPLEBUSH LN NE	7490 STEEPLEBUSH LN NE	7490 STEEPLEBUSH LN NE	7495 STEEPLEBUSH LN NE
Sample Name			7465 Steeplebush-IN-6/14	7465 Steeplebush-IN-12/06	7475 Packer Drive NE	7485 CLOUDBERRY	7485 Cloudberry-IN-11/27 Grab Water	7485 Cloudberry Ln-IN-5/29	7485 Cloudberry Ln NE-IN-11/27	7485 Cloudberry-IN-5/28	7485 Cloudberry-IN-11/26	7490 Steeplebush	7490 Steeplebush-IN-12/27 Grab Potable Water	7490 Steeplebush-IN-6/27	7490 Steeplebush Ln NE-IN-12/27	7490 Steeplebush-IN-6/26	7490 Steeplebush-IN-12/20	7495 Steeplebush
Matrix			POET Influent	POET Influent	Drinking Water	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water
Laboratory ID			UF15003-002	UL07003-027	K1711614-001	K1710695-030	9336552	TE30009-002	TK30001-003	UE30027-003	UK30011-005	K1710498-028	9388730	TF28016-013	TL29003-002	UF27013-008	UL21017-001	K1710498-029
Sample Date			06/14/2019	12/06/2019	10/24/2017	10/03/2017	11/27/2017	05/29/2018	11/27/2018	05/28/2019	11/26/2019	09/28/2017	12/27/2017	06/27/2018	12/27/2018	06/26/2019	12/20/2019	09/28/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	-	<0.0041	<0.0043	<0.006	-	-	-	-	<0.0051	<0.005	-	-	-	-	<0.0042
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	-	<0.0041	<0.0043	<0.006	-	-	-	-	<0.0051	<0.008	-	-	-	-	<0.0042
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	-	<0.0041	<0.0043	<0.008	-	-	-	-	<0.0051	<0.008	-	-	-	-	<0.0042
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.0037	<0.0037	-	-	-	<0.0035	<0.004	<0.0036	<0.0035	-	-	<0.0036	<0.0039	<0.0037	<0.0036	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	-	<0.0041	<0.0043	<0.006	-	-	-	-	<0.0051	<0.003	-	-	-	-	<0.0042
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	-	<0.0041	<0.0043	<0.02	-	-	-	-	<0.0051	<0.008	-	-	-	-	<0.0042
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.0037	<0.0037	-	-	-	<0.0035	<0.004	<0.0036	<0.0035	-	-	<0.0036	<0.0039	<0.0037	<0.0036	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	-	<0.0041	<0.0043	<0.006	-	-	-	-	<0.0051	<0.003	-	-	-	-	<0.0042
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0037	<0.0037	<0.0041	<0.0043	0.005	0.0041	0.0047	0.0066	0.0054	<0.0051	0.003	<0.0036	<0.0039	<0.0037	0.004	<0.0042
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	-	<0.0041	<0.0043	<0.006	-	-	-	-	<0.0051	<0.002	-	-	-	-	<0.0042
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	-	<0.0041	<0.0043	<0.006	-	-	-	-	<0.0051	<0.002	-	-	-	-	<0.0042
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	-	<0.0041	<0.0043	<0.0009	-	-	-	-	<0.0051	<0.003	-	-	-	-	<0.0042
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0037	<0.0037	<0.0041	<0.0043	0.0006 J	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	0.002	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
Perfluorobutanoic acid (PFBA)	NCL	NA	-	-	<0.0081	<0.0086	<0.005	-	-	-	-	<0.01	<0.005	-	-	-	-	<0.0083
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0037	<0.0037	<0.0041	<0.0043	0.0007 J	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	<0.002	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0037	<0.0037	<0.0041	<0.0043	<0.0009	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	<0.0009	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0037	<0.0037	<0.0041	<0.0043	<0.0009	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	0.0006 J	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0037	<0.0037	<0.0041	<0.0043	<0.0009	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	0.002 J	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0037	<0.0037	<0.0041	<0.0043	<0.0009	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	<0.002	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0037	<0.0037	<0.0016	<0.0017	0.001	<0.0035	<0.004	<0.0036	<0.0035	0.0024	0.0009	<0.0036	<0.0039	<0.0037	<0.0036	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0037	<0.0037	<0.0041	<0.0043	0.001 J	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	<0.002	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	ND	ND	0.002	ND	ND	ND	ND	0.0024	0.0009	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	-	<0.0041	<0.0043	<0.0009	-	-	-	-	<0.0051	<0.005	-	-	-	-	<0.0042
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0037	<0.0037	<0.0041	<0.0043	<0.0009	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	<0.0009	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
Perfluorotridecanoic acid (PFTriDA)	NCL	NA	<0.0037	<0.0037	<0.0041	<0.0043	<0.0009	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	<0.0009	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0037	<0.0037	<0.0041	<0.0043	<0.002	<0.0035	<0.004	<0.0036	<0.0035	<0.0051	<0.002	<0.0036	<0.0039	<0.0037	<0.0036	<0.0042
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	ND	ND	ND	0.0083	0.0041	0.0047	0.0066	0.0054	0.0024	0.0085	ND	ND	ND	0.004	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010101019	411010101019	411010101019	411010101015	411010101010	411010101010	411010101010	411010101010	411010101010	411010101010	411010101028	411010101028	411010101028	411010101028	411010101028	411010101018
Address			7495 STEEPLEBUSH LN NE	7495 STEEPLEBUSH LN NE	7495 STEEPLEBUSH LN NE	7500 CLOUDBERRY LN NE	7520 STEEPLEBUSH LN NE	7520 STEEPLEBUSH LN NE	7520 STEEPLEBUSH LN NE	7520 STEEPLEBUSH LN NE	7520 STEEPLEBUSH LN NE	7525 CLOUDBERRY LN NE	7525 CLOUDBERRY LN NE	7525 CLOUDBERRY LN NE	7525 CLOUDBERRY LN NE	7525 CLOUDBERRY LN NE	7525 CLOUDBERRY LN NE	7525 STEEPLEBUSH LN NE
Sample Name			7495 Steeplebush-IN-11/15 Grab Potable Water	7495 Steeplebush Ln NE-IN-11/15	7495 Steeplebush-IN-11/1	7500 CLOUDBERRY	7520 STEEPLEBUSH	7520 Steeplebush-IN-12/12 Grab Potable Water	7520 Steeplebush-IN-6/12	7520 Steeplebush-IN-1/23	7520 Steeplebush-IN-8/14	7525 Cloudberry	7525 Cloudberry-IN-12/11 Grab Water	7525 Cloudberry-IN-6/18	7525 Cloudberry Ln NE-IN-12/17	7525 Cloudberry-IN-6/28	7525 Cloudberry-IN-12/23	7525 Steeplebush
Matrix			POET Influent	POET Influent	POET Influent	Drinking Water	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water
Laboratory ID			9322470	TK17015-005	UK02006-001	K1710695-024	K1710695-025	9367865	TF13028-008	UA24008-007	UH16040-002	K1710771-022	9362358	TF19013-004	TL21043-004	UF29013-006	UL24005-001	K1801776-001
Sample Date			11/15/2017	11/15/2018	11/01/2019	10/03/2017	10/03/2017	12/12/2017	06/12/2018	01/23/2019	08/14/2019	10/04/2017	12/11/2017	06/18/2018	12/17/2018	06/28/2019	12/23/2019	02/22/2018
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.006	-	-	<0.0043	<0.0043	<0.01	-	-	-	<0.0044	<0.005	-	-	-	-	<0.0049
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.006	-	-	<0.0043	<0.0043	<0.01	-	-	-	<0.0044	<0.008	-	-	-	-	<0.0049
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.008	-	-	<0.0043	<0.0043	<0.01	-	-	-	<0.0044	<0.008	-	-	-	-	<0.0049
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.0036	<0.0037	-	-	-	<0.0037	<0.0041	<0.0037	-	-	<0.0034	<0.0039	<0.0038	<0.0038	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.006	-	-	<0.0043	<0.0043	<0.005	-	-	-	<0.0044	<0.003	-	-	-	-	<0.0049
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.02	-	-	<0.0043	<0.0043	<0.01	-	-	-	<0.0044	<0.008	-	-	-	-	<0.0049
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.0036	<0.0037	-	-	-	<0.0037	<0.0041	<0.0037	-	-	<0.0034	<0.0039	<0.0038	<0.0038	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.006	-	-	<0.0043	<0.0043	<0.005	-	-	-	<0.0044	<0.003	-	-	-	-	<0.0049
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0009	<0.0036	<0.0037	<0.0043	<0.0043	0.0007 J	<0.0037	<0.0041	<0.0037	0.0066	0.006	0.0046	0.0054	0.0067	0.0049	<0.0049
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.006	-	-	<0.0043	<0.0043	<0.003	-	-	-	<0.0044	<0.002	-	-	-	-	<0.0049
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.006	-	-	<0.0043	<0.0043	<0.003	-	-	-	<0.0044	<0.002	-	-	-	-	<0.0049
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0009	-	-	<0.0043	<0.0043	<0.005	-	-	-	<0.0044	<0.003	-	-	-	-	<0.0049
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.002	<0.0036	<0.0037	<0.0043	<0.0043	<0.003	<0.0037	<0.0041	<0.0037	<0.0044	0.001 J	<0.0034	<0.0039	<0.0038	<0.0038	<0.0049
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.005	-	-	<0.0086	<0.0086	<0.01	-	-	-	<0.0088	<0.005	-	-	-	-	<0.0098
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.002	<0.0036	<0.0037	<0.0043	<0.0043	<0.003	<0.0037	<0.0041	<0.0037	<0.0044	0.001 J	<0.0034	<0.0039	<0.0038	<0.0038	<0.0049
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0009	<0.0036	<0.0037	<0.0043	<0.0043	<0.002	<0.0037	<0.0041	<0.0037	<0.0044	<0.0009	<0.0034	<0.0039	<0.0038	<0.0038	<0.0049
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0009	<0.0036	<0.0037	<0.0043	<0.0043	<0.002	<0.0037	<0.0041	<0.0037	<0.0044	<0.0009	<0.0034	<0.0039	<0.0038	<0.0038	<0.0049
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0009	<0.0036	<0.0037	<0.0043	<0.0043	<0.003	<0.0037	<0.0041	<0.0037	<0.0044	<0.002	<0.0034	<0.0039	<0.0038	<0.0038	0.006
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0009	<0.0036	<0.0037	<0.0043	<0.0043	<0.003	<0.0037	<0.0041	<0.0037	<0.0044	<0.002	<0.0034	<0.0039	<0.0038	<0.0038	<0.0049
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0009	<0.0036	<0.0037	<0.0017	<0.0017	<0.002	<0.0037	<0.0041	<0.0037	0.0051	<0.0009	<0.0034	<0.0039	<0.0038	<0.0038	0.0053
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.001 J	<0.0036	<0.0037	<0.0043	<0.0043	0.005	<0.0037	<0.0041	<0.0037	<0.0044	0.004	<0.0034	<0.0039	<0.0038	<0.0038	<0.0049
PFOA + PFOS (Calculated)	0.07	NA	0.001	ND	ND	ND	ND	0.005	ND	ND	ND	0.0051	0.004	ND	ND	ND	ND	0.0053
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0009	-	-	<0.0043	<0.0043	<0.01	-	-	-	<0.0044	<0.005	-	-	-	-	0.007
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0009	<0.0036	<0.0037	<0.0043	<0.0043	<0.002	<0.0037	<0.0041	<0.0037	<0.0044	<0.0009	<0.0034	<0.0039	<0.0038	<0.0038	<0.0049
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0009	<0.0036	<0.0037	<0.0043	<0.0043	<0.002	<0.0037	<0.0041	<0.0037	<0.0044	<0.0009	<0.0034	<0.0039	<0.0038	<0.0038	<0.0049
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.002	<0.0036	<0.0037	<0.0043	<0.0043	<0.003	<0.0037	<0.0041	<0.0037	<0.0044	<0.002	<0.0034	<0.0039	<0.0038	<0.0038	<0.0049
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.001	ND	ND	ND	ND	0.0057	ND	ND	ND	0.012	0.012	0.0046	0.0054	0.0067	0.0049	0.018

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010101014	411010101014	411010101014	411010101014	411010101014	411010101014	411010101014	411010101017	411010101017	411010101017	411010101017	411010101009	411010101009	411010101009	411010101009	411010101009
Address			7530 CLOUDBERRY LN NE	7530 CLOUDBERRY LN NE	7530 CLOUDBERRY LN NE	7530 CLOUDBERRY LN NE	7530 CLOUDBERRY LN NE	7530 CLOUDBERRY LN NE	7545 STEEPLEBUSH LN NE	7545 STEEPLEBUSH LN NE	7545 STEEPLEBUSH LN NE	7545 STEEPLEBUSH LN NE	7550 STEEPLEBUSH LN NE	7550 STEEPLEBUSH LN NE	7550 STEEPLEBUSH LN NE	7550 STEEPLEBUSH LN NE	7550 STEEPLEBUSH LN NE	7550 STEEPLEBUSH LN NE
Sample Name			7530 CLOUDBERRY	7530 Cloudberry - IN - 11/17 Grab Water	7530 Cloudberry-IN- 5/18	7530 Cloudberry LN NE-IN-11/16	7530 Cloudberry Ln NE-IN-05/17	7530 Cloudberry Ln-IN-11/1	7545 Steeplebush	7545 Steeplebush Ln NE-IN-11/28	7545 Steeplebush-IN- 5/30	7545 Steeplebush-IN- 11/20	7550 STEEPLEBUSH	7550 Steeplebush - IN - 11/16 Grab Water	7550 Steeplebush-IN- 5/17	7550 Steeplebush Ln-IN-12/18	7550 Steeplebush-IN- 6/18	7550 Steeplebush-IN- 12/18
Matrix			Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent
Laboratory ID			K1710695-029	9327017	TE18091-008	TK17017-004	UE18017-021	UK02006-005	K1711115-001	TK29070-010	UF01004-006	UK21006-004	K1710695-026	9327002	TE18088-007	TL21033-009	UF20013-008	UL19009-003
Sample Date			10/03/2017	11/17/2017	05/18/2018	11/16/2018	05/17/2019	11/01/2019	10/10/2017	11/28/2018	05/30/2019	11/20/2019	10/03/2017	11/16/2017	05/17/2018	12/18/2018	06/18/2019	12/18/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0043	<0.006	-	-	-	-	<0.0043	-	-	-	<0.0043	<0.006	-	-	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0043	<0.006	-	-	-	-	<0.0043	-	-	-	<0.0043	<0.006	-	-	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0043	<0.009	-	-	-	-	<0.0043	-	-	-	<0.0043	<0.009	-	-	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	<0.0036	<0.0035	<0.0037	<0.0037	-	<0.0035	<0.0037	<0.0036	-	-	<0.0034	<0.0038	<0.0036	<0.0038
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0043	<0.006	-	-	-	-	<0.0043	-	-	-	<0.0043	<0.006	-	-	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0043	<0.02	-	-	-	-	<0.0043	-	-	-	<0.0043	<0.02	-	-	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	<0.0036	<0.0035	<0.0037	<0.0037	-	<0.0035	<0.0037	<0.0036	-	-	<0.0034	<0.0038	<0.0036	<0.0038
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0043	<0.006	-	-	-	-	<0.0043	-	-	-	<0.0043	<0.006	-	-	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0043	0.004	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	0.0067	0.009	0.006	0.0082	0.0087	0.0081
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0043	<0.006	-	-	-	-	<0.0043	-	-	-	<0.0043	<0.006	-	-	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0043	<0.006	-	-	-	-	<0.0043	-	-	-	<0.0043	<0.006	-	-	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0043	<0.001	-	-	-	-	<0.0043	-	-	-	<0.0043	<0.001	-	-	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0043	0.003	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	<0.0043	0.002	<0.0034	<0.0038	<0.0036	<0.0038
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0086	0.004 J	-	-	-	-	<0.0086	-	-	-	<0.0086	<0.005	-	-	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0043	<0.002	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	<0.0043	<0.002	<0.0034	<0.0038	<0.0036	<0.0038
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0043	<0.001	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	<0.0043	<0.001	<0.0034	<0.0038	<0.0036	<0.0038
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0043	0.004	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	<0.0043	0.002	<0.0034	<0.0038	<0.0036	<0.0038
Perfluorohexanoic acid (PFHxA)	NCL	400	0.0049	0.009	0.0058	0.0066	0.004	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	<0.0043	0.003	<0.0034	<0.0038	<0.0036	<0.0038
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0043	<0.001	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	<0.0043	<0.001	<0.0034	<0.0038	<0.0036	<0.0038
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.0061	0.012	0.0082	0.0091	0.0055	<0.0037	<0.0017	<0.0035	<0.0037	<0.0036	<0.0017	0.002	<0.0034	<0.0038	<0.0036	<0.0038
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0043	0.003	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	0.0047	0.0056	<0.0036	<0.0043	0.003 J	<0.0034	<0.0038	<0.0036	<0.0038
PFOA + PFOS (Calculated)	0.07	NA	0.0061	0.015	0.0082	0.0091	0.0055	ND	ND	0.0047	0.0056	ND	ND	0.005	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0043	0.008	-	-	-	-	<0.0043	-	-	-	<0.0043	0.003	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0043	<0.001	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	<0.0043	<0.001	<0.0034	<0.0038	<0.0036	<0.0038
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0043	<0.001	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	<0.0043	<0.001	<0.0034	<0.0038	<0.0036	<0.0038
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0043	<0.002	<0.0036	<0.0035	<0.0037	<0.0037	<0.0043	<0.0035	<0.0037	<0.0036	<0.0043	<0.002	<0.0034	<0.0038	<0.0036	<0.0038
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.011	0.047	0.014	0.016	0.0095	ND	ND	0.0047	0.0056	ND	0.0067	0.024	0.006	0.0082	0.0087	0.0081

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411010101029	411010101029	411010101029	411010101029	411010101029	411003351004	411003351004	411003351004	411003351004	411003351004	411003351004	411003351006	411003351006	411003351006	411003351006	411003351005
Address			7555 CLOUDBERRY LN NE	7555 CLOUDBERRY LN NE	7555 CLOUDBERRY LN NE	7555 CLOUDBERRY LN NE	7555 CLOUDBERRY LN NE	7619 BELMONT AVE NE	7619 BELMONT AVE NE	7619 BELMONT AVE NE	7619 BELMONT AVE NE	7619 BELMONT AVE NE	7619 BELMONT AVE NE	7675 BELMONT AVE NE	7675 BELMONT AVE NE	7675 BELMONT AVE NE	7675 BELMONT AVE NE	7685 BELMONT AVE NE
Sample Name			7555 CLOUDBERRY	7555 Cloudberry-IN-2/6 Grab Potable Water	7555 CLOUDBERRY-IN-8/7	7555 Cloudberry-IN-6/25	7555 Cloudberry-IN-12/10	7619 BELMONT	7619 Belmont-IN-12/13 Grab Water	7619 BELMONT-IN-8/8	7619 Belmont-IN-2/14	7619 Belmont-IN-8/14	7619 Belmont-IN-2/13	7675 BELMONT	7675 Belmont-IN-12/22 Grab Potable Water	7675 Belmont Ave-IN-12/18	7675 Belmont-IN-12/17	7685 Belmont
Matrix			Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water
Laboratory ID			K1710695-028	9446583	L1830950-07	UF27010-009	UL12039-002	K1710940-010	9367803	L1830960-09	UB16012-002	UH16034-005	VB15017-002	K1710940-009	9385713	TL21033-003	UL19100-004	K1710610-006
Sample Date			10/03/2017	02/06/2018	08/07/2018	06/25/2019	12/10/2019	10/05/2017	12/13/2017	08/08/2018	02/14/2019	08/14/2019	02/13/2020	10/05/2017	12/22/2017	12/18/2018	12/17/2019	09/29/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0043	<0.006	-	-	-	<0.0043	<0.01	-	-	-	-	<0.0043	<0.005	-	-	<0.0043
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0043	<0.008	-	-	-	<0.0043	<0.02	-	-	-	-	<0.0043	<0.008	-	-	<0.0043
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0043	<0.008	-	-	-	<0.0043	<0.02	-	-	-	-	<0.0043	<0.008	-	-	<0.0043
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	<0.00382	<0.0035	<0.0034	-	-	<0.00374	<0.0035	<0.0036	<0.0035	-	-	<0.0045	<0.0038	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0043	<0.003	-	-	-	<0.0043	<0.007	-	-	-	-	<0.0043	<0.003	-	-	<0.0043
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0043	<0.008	-	-	-	<0.0043	<0.02	-	-	-	-	<0.0043	<0.008	-	-	<0.0043
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	<0.00382	<0.0035	<0.0034	-	-	<0.00374	<0.0035	<0.0036	<0.0035	-	-	<0.0045	<0.0038	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0043	<0.003	-	-	-	<0.0043	<0.007	-	-	-	-	<0.0043	<0.003	-	-	<0.0043
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0043	0.002	<0.00382	<0.0035	<0.0034	<0.0043	0.007	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.0009	<0.0045	<0.0038	<0.0043
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0043	<0.002	-	-	-	<0.0043	<0.005	-	-	-	-	<0.0043	<0.002	-	-	<0.0043
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0043	<0.002	-	-	-	<0.0043	<0.005	-	-	-	-	<0.0043	<0.002	-	-	<0.0043
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0043	<0.003	-	-	-	<0.0043	<0.007	-	-	-	-	<0.0043	<0.003	-	-	<0.0043
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0043	<0.002	<0.00382	<0.0035	<0.0034	<0.0043	0.007	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.002	<0.0045	<0.0038	<0.0043
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0086	<0.006	-	-	-	<0.0086	0.008 J	-	-	-	-	<0.0086	<0.005	-	-	<0.0086
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0043	<0.002	<0.00382	<0.0035	<0.0034	<0.0043	0.005	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.002	<0.0045	<0.0038	<0.0043
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0043	<0.0009	<0.00382	<0.0035	<0.0034	<0.0043	<0.002	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.0009	<0.0045	<0.0038	<0.0043
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0043	<0.0009	<0.00382	<0.0035	<0.0034	<0.0043	0.014	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.0009	<0.0045	<0.0038	<0.0043
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0043	<0.002	<0.00382	<0.0035	<0.0034	<0.0043	0.009	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.002	<0.0045	<0.0038	<0.0043
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0043	<0.002	<0.00382	<0.0035	<0.0034	<0.0043	<0.005	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.002	<0.0045	<0.0038	<0.0043
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0017	0.0004 J	<0.00382	<0.0035	<0.0034	<0.0017	0.039	<0.00374	<0.0035	<0.0036	<0.0035	<0.0017	<0.0009	<0.0045	<0.0038	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0043	0.006	<0.00382	<0.0035	<0.0034	<0.0043	<0.005	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	0.0009 J	<0.0045	<0.0038	<0.0043
PFOA + PFOS (Calculated)	0.07	NA	ND	0.0064	ND	ND	ND	ND	0.039	ND	ND	ND	ND	ND	0.0009	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0043	<0.006	-	-	-	<0.0043	<0.01	-	-	-	-	<0.0043	<0.005	-	-	<0.0043
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0043	<0.0009	<0.00382	<0.0035	<0.0034	<0.0043	<0.002	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.0009	<0.0045	<0.0038	<0.0043
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0043	<0.0009	<0.00382	<0.0035	<0.0034	<0.0043	<0.002	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.0009	<0.0045	<0.0038	<0.0043
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0043	<0.002	<0.00382	<0.0035	<0.0034	<0.0043	<0.005	<0.00374	<0.0035	<0.0036	<0.0035	<0.0043	<0.002	<0.0045	<0.0038	<0.0043
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	0.0084	ND	ND	ND	ND	0.089	ND	ND	ND	ND	ND	0.0009	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area				Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	
PPN				411003351005	411003351005	411003351005	411003353002	411003353002	411003353002	411003353002	411003353002	411004427021	411004427021	411004427021	411004427021	411004427021	411004427021	411004427007	
Address		Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	7685 BELMONT AVE NE	7685 BELMONT AVE NE	7685 BELMONT AVE NE	7757 BELMONT AVE NE	7757 BELMONT AVE NE	7757 BELMONT AVE NE	7757 BELMONT AVE NE	7757 BELMONT AVE NE	7777 STRAWBERRY LN NE	7777 STRAWBERRY LN NE	7777 STRAWBERRY LN NE	7777 STRAWBERRY LN NE	7777 STRAWBERRY LN NE	7777 STRAWBERRY LN NE	7778 STRAWBERRY LN NE	
Sample Name				7685 Belmont Ave NE-IN-12/20 Grab Potable Water	7685 Belmont Ave- IN-12/20	7685 Belmont-IN- 12/19	7757 BELMONT	7757 Belmont NE-IN- 1/3 Grab Potable Water	7757 Belmont-IN- 7/16	7757 Belmont-IN- 3/11	7757 Belmont-IN- 9/11	7777 STRAWBERRY LANE	7777 Strawberry Ln- PreRO-12/1 Grab Water	7777 Strawberry Ln- IN-12/1 Grab Water	7777 Strawberry Ln- IN-6/1	7777 Strawberry Ln NE-IN-11/30	7777 Strawberry-IN- 5/31	7777 Strawberry-IN- 12/06	7778 Strawberry Lane
Matrix				POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water
Laboratory ID				9381472	TL22018-003	UL21018-006	K1710940-007	9395436	TG17014-003	UC14030-002	UI12034-005	K1709831-025	9346216	9346217	TF02014-010	TL01018-006	UF01007-002	UL07003-025	K1710423-013
Sample Date				12/20/2017	12/20/2018	12/19/2019	10/05/2017	01/03/2018	07/16/2018	03/11/2019	09/11/2019	09/14/2017	12/01/2017	12/01/2017	06/01/2018	11/30/2018	05/31/2019	12/06/2019	09/26/2017
Parameter (µg/L)																			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.01	-	-	<0.0043	<0.006	-	-	<0.0044	<0.006	<0.01	-	-	-	-	<0.0042		
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.02	-	-	<0.0043	<0.008	-	-	<0.0044	<0.008	<0.01	-	-	-	-	<0.0042		
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.02	-	-	<0.0043	<0.008	-	-	<0.0044	<0.008	<0.01	-	-	-	-	<0.0042		
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.0038	<0.0039	-	-	<0.0037	<0.0036	<0.0037	-	-	-	<0.0035	<0.0034	<0.0036	-		
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.005	-	-	<0.0043	<0.003	-	-	<0.0044	<0.003	<0.005	-	-	-	-	<0.0042		
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.02	-	-	<0.0043	<0.008	-	-	<0.0044	<0.008	<0.01	-	-	-	-	<0.0042		
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.0038	<0.0039	-	-	<0.0037	<0.0036	<0.0037	-	-	-	<0.0035	<0.0034	<0.0036	<0.0033		
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.005	-	-	<0.0043	<0.003	-	-	<0.0044	<0.003	<0.005	-	-	-	-	<0.0042		
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.002	<0.0038	<0.0039	<0.0043	<0.0009	<0.0037	<0.0036	<0.0037	<0.0044	<0.0009	<0.002	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.003	-	-	<0.0043	<0.002	-	-	<0.0044	<0.002	<0.003	-	-	-	-	<0.0042		
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.003	-	-	<0.0043	<0.002	-	-	<0.0044	<0.002	<0.003	-	-	-	-	<0.0042		
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.005	-	-	<0.0043	<0.003	-	-	<0.0044	<0.003	<0.005	-	-	-	-	<0.0042		
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.003	<0.0038	<0.0039	<0.0043	<0.002	<0.0037	<0.0036	<0.0037	<0.0044	<0.002	<0.003	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.01	-	-	<0.0086	<0.006	-	-	<0.0088	<0.006	<0.01	-	-	-	-	<0.0083		
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.003	<0.0038	<0.0039	<0.0043	<0.002	<0.0037	<0.0036	<0.0037	<0.0044	<0.002	<0.003	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.002	<0.0038	<0.0039	<0.0043	<0.0009	<0.0037	<0.0036	<0.0037	<0.0044	<0.0009	<0.002	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.002	<0.0038	<0.0039	<0.0043	<0.0009	<0.0037	<0.0036	<0.0037	<0.0044	<0.0009	<0.002	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.003	<0.0038	<0.0039	<0.0043	<0.002	<0.0037	<0.0036	<0.0037	<0.0044	<0.002	<0.003	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.003	<0.0038	<0.0039	<0.0043	<0.002	<0.0037	<0.0036	<0.0037	<0.0044	<0.002	<0.003	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.002	<0.0038	<0.0039	<0.0017	<0.0009	<0.0037	<0.0036	<0.0037	0.0019	<0.0009	0.001 J	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.002 J	<0.0038	<0.0039	<0.0043	0.002	<0.0037	<0.0036	<0.0037	<0.0044	<0.002	<0.003	<0.0035	<0.0034	<0.0036	<0.0033		
PFOA + PFOS (Calculated)	0.07	NA	0.002	ND	ND	ND	0.002	ND	ND	ND	0.0019	ND	0.001	ND	ND	ND	ND		
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.01	-	-	<0.0043	<0.006	-	-	<0.0044	<0.006	<0.01	-	-	-	-	<0.0042		
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.002	<0.0038	<0.0039	<0.0043	<0.0009	<0.0037	<0.0036	<0.0037	<0.0044	<0.0009	<0.002	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.002	<0.0038	<0.0039	<0.0043	<0.0009	<0.0037	<0.0036	<0.0037	<0.0044	<0.0009	<0.002	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.003	<0.0038	<0.0039	<0.0043	<0.002	<0.0037	<0.0036	<0.0037	<0.0044	<0.002	<0.003	<0.0035	<0.0034	<0.0036	<0.0033		
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total PFAS (Calculated)	NCL	NA	0.002	ND	ND	ND	0.002	ND	ND	ND	0.0019	ND	0.001	ND	ND	ND	ND		

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427007	411004427007	411004427007	411003353001	411003353001	411003353001	411003353001	411003353001	411003353001	411003353001	411004427008	411004427008	411004427008	411004427008	411004427020	411004427020
Address			7778 STRAWBERRY LN NE	7778 STRAWBERRY LN NE	7778 STRAWBERRY LN NE	7781 BELMONT AVE NE	7781 BELMONT AVE NE	7781 BELMONT AVE NE	7781 BELMONT AVE NE	7781 BELMONT AVE NE	7781 BELMONT AVE NE	7781 BELMONT AVE NE	7800 STRAWBERRY LN NE	7800 STRAWBERRY LN NE	7800 STRAWBERRY LN NE	7800 STRAWBERRY LN NE	7803 STRAWBERRY LN NE	7803 STRAWBERRY LN NE
Sample Name			7778 Strawberry LN NE-IN-1/5 Grab Potable	7778 Strawberry Ln-IN-1/8	7778 Strawberry-IN-1/31	7781 Belmont	7781 Belmont-IN-12/1 Grab Water	7781 Belmont Ave-IN-6/1	7781 Belmont-IN-1/11	7781 Belmont-IN-7/11	7781 Belmont-IN-1/10	7781 Belmont-IN-1/10	7800 Strawberry Lane	7800 Strawberry-IN-11/28 Grab Potable Water	7800 Strawberry Ln NE-IN-11/28	7800 Strawberry Ln-IN-11/26	7803 STRAWBERRY LANE	7803 Strawberry Ln-IN-1/31 Grab
Matrix			POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent
Laboratory ID			9396611	UA10023-001	VB01003-006	K1710610-007	9346213	TF02014-014	UA12009-004	UG13007-008	VA11015-005	K1710423-014	9341190	TK29070-009	UK30011-006	K1709967-012	9435211	UB02003-003
Sample Date			01/05/2018	01/08/2019	01/31/2020	09/29/2017	12/01/2017	06/01/2018	01/11/2019	07/11/2019	01/10/2020	09/26/2017	11/28/2017	11/28/2018	11/26/2019	09/15/2017	01/31/2018	01/31/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.006	-	-	<0.0043	<0.01	-	-	-	-	<0.0041	<0.006	-	-	<0.0043	<0.006	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.009	-	-	<0.0043	<0.02	-	-	-	-	<0.0041	<0.006	-	-	<0.0043	<0.009	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.009	-	-	<0.0043	<0.02	-	-	-	-	<0.0041	<0.009	-	-	<0.0043	<0.009	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.004	<0.004	-	-	<0.0037	<0.0039	<0.0036	<0.0038	-	-	<0.0036	<0.0036	-	-	<0.0035
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.003	-	-	<0.0043	<0.007	-	-	-	-	<0.0041	<0.006	-	-	<0.0043	<0.003	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.009	-	-	<0.0043	<0.02	-	-	-	-	<0.0041	<0.02	-	-	<0.0043	<0.009	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.004	<0.004	-	-	<0.0037	<0.0039	<0.0036	<0.0038	-	-	<0.0036	<0.0036	-	-	<0.0035
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.003	-	-	<0.0043	<0.007	-	-	-	-	<0.0041	<0.006	-	-	<0.0043	<0.003	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.001	<0.004	<0.004	<0.0043	<0.002	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0035
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.002	-	-	<0.0043	<0.005	-	-	-	-	<0.0041	<0.006	-	-	<0.0043	<0.002	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.002	-	-	<0.0043	<0.005	-	-	-	-	<0.0041	<0.006	-	-	<0.0043	<0.002	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.003	-	-	<0.0043	<0.007	-	-	-	-	<0.0041	<0.001	-	-	<0.0043	<0.003	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.002	<0.004	<0.004	<0.0043	<0.005	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.002	<0.0036	<0.0036	<0.0043	<0.002	<0.0035
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.006	-	-	<0.0087	<0.01	-	-	-	-	<0.0081	<0.005	-	-	<0.0086	<0.006	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.002	<0.004	<0.004	<0.0043	0.003 J	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.002	<0.0036	<0.0036	<0.0043	<0.002	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.001	<0.004	<0.004	<0.0043	<0.002	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.001	<0.004	<0.004	<0.0043	<0.002	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0035
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.002	<0.004	<0.004	<0.0043	<0.005	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.001	<0.0036	<0.0036	<0.0043	<0.002	<0.0035
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.002	<0.004	<0.004	<0.0043	<0.005	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.001	<0.0036	<0.0036	<0.0043	<0.002	<0.0035
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.001	<0.004	<0.004	<0.0017	<0.002	<0.0037	<0.0039	<0.0036	<0.0038	<0.0016	<0.001	<0.0036	<0.0036	<0.0017	<0.0009	<0.0035
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.0005 J	<0.004	<0.004	<0.0043	0.014	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	0.002 J	<0.0036	<0.0036	<0.0043	<0.002	<0.0035
PFOA + PFOS (Calculated)	0.07	NA	0.0005	ND	ND	ND	0.014	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.006	-	-	<0.0043	<0.01	-	-	-	-	<0.0041	<0.001	-	-	<0.0043	<0.006	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.001	<0.004	<0.004	<0.0043	<0.002	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.001	<0.004	<0.004	<0.0043	<0.002	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.001	<0.0036	<0.0036	<0.0043	<0.0009	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.002	<0.004	<0.004	<0.0043	<0.005	<0.0037	<0.0039	<0.0036	<0.0038	<0.0041	<0.002	<0.0036	<0.0036	<0.0043	<0.002	<0.0035
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0005	ND	ND	ND	0.017	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427020	411003301004	411003301004	411003301004	411003301004	411004427019	411004427019	411004427019	411004427019	411004427019	411004427019	411004427019	411004427009	411004427009	411004427009	411004427009
Address			7803 STRAWBERRY LN NE	7815 BELMONT AVE NE	7815 BELMONT AVE NE	7815 BELMONT AVE NE	7815 BELMONT AVE NE	7817 STRAWBERRY LN NE	7817 STRAWBERRY LN NE	7817 STRAWBERRY LN NE	7817 STRAWBERRY LN NE	7817 STRAWBERRY LN NE	7817 STRAWBERRY LN NE	7817 STRAWBERRY LN NE	7834 STRAWBERRY LN NE	7834 STRAWBERRY LN NE	7834 STRAWBERRY LN NE	7834 STRAWBERRY LN NE
Sample Name			7803 Strawberry-IN-2/4	7815 BELMONT	7815 Belmont-IN-11/28 Grab Potable Water	7815 Belmont Ave NE-IN-11/26	7815 Belmont-IN-12/04	7817 STRAWBERRY LANE	7817 Strawberry Farms - IN - 11/16 Grab Water	7817 Strawberry LN-IN-5/14	7817 Strawberry Ln NE-IN-11/12	7817 Strawberry Ln NE-IN-05/16	7817 Strawberry LN NE-IN-11/14	7834 Strawberry Lane	7834 Strawberry LN-IN-12/15 Grab Water	7834 Strawberry Lane-IN-6/15	7834 Strawberry Ln-IN-4/24	7834 Strawberry Ln-IN-10/1
Matrix			POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent
Laboratory ID			VB06008-006	K1710940-006	9341198	TK29102-008	UL05028-033	K1709967-010	9327001	TE17075-012	TK16001-007	UE18017-006	UK15066-004	K1710423-015	9372287	TF16005-005	UD25021-002	UJ03034-005
Sample Date			02/04/2020	10/05/2017	11/28/2017	11/26/2018	12/04/2019	09/15/2017	11/16/2017	05/14/2018	11/12/2018	05/16/2019	11/14/2019	09/26/2017	12/15/2017	06/15/2018	04/24/2019	10/01/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	<0.0042	<0.006	-	-	<0.0042	<0.006	-	-	-	-	<0.0041	<0.005	-	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	<0.0042	<0.006	-	-	<0.0042	<0.006	-	-	-	-	<0.0041	<0.008	-	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	<0.0042	<0.009	-	-	<0.0042	<0.008	-	-	-	-	<0.0041	<0.008	-	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.0034	-	-	<0.0035	<0.0034	-	-	<0.0038	<0.0036	<0.0037	<0.0037	-	-	<0.0037	<0.0041	<0.004
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	<0.0042	<0.006	-	-	<0.0042	<0.006	-	-	-	-	<0.0041	<0.003	-	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	<0.0042	<0.02	-	-	<0.0042	<0.02	-	-	-	-	<0.0041	<0.008	-	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.0034	-	-	<0.0035	<0.0034	-	-	<0.0038	<0.0036	<0.0037	<0.0037	-	-	<0.0037	<0.0041	<0.004
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	<0.0042	<0.006	-	-	<0.0042	<0.006	-	-	-	-	<0.0041	<0.003	-	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0034	<0.0042	<0.001	<0.0035	<0.0034	<0.0042	0.0003 J	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.0009	<0.0037	<0.0041	<0.004
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	<0.0042	<0.006	-	-	<0.0042	<0.006	-	-	-	-	<0.0041	<0.002	-	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	<0.0042	<0.006	-	-	<0.0042	<0.006	-	-	-	-	<0.0041	<0.002	-	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	<0.0042	<0.001	-	-	<0.0042	<0.0009	-	-	-	-	<0.0041	<0.003	-	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0034	<0.0042	<0.002	<0.0035	<0.0034	<0.0042	<0.002	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.002	<0.0037	<0.0041	<0.004
Perfluorobutanoic acid (PFBA)	NCL	NA	-	<0.0085	<0.005	-	-	<0.0083	<0.005	-	-	-	-	<0.0081	<0.005	-	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0034	<0.0042	<0.002	<0.0035	<0.0034	<0.0042	<0.002	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.002	<0.0037	<0.0041	<0.004
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0034	<0.0042	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.0009	<0.0037	<0.0041	<0.004
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0034	<0.0042	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.0009	<0.0037	<0.0041	<0.004
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0034	<0.0042	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.002	<0.0037	<0.0041	<0.004
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0034	<0.0042	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.002	<0.0037	<0.0041	<0.004
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0034	<0.0017	<0.001	<0.0035	<0.0034	<0.0017	<0.0009	<0.0038	<0.0036	<0.0037	<0.0037	<0.0016	<0.0009	<0.0037	<0.0041	<0.004
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0034	<0.0042	<0.003	<0.0035	<0.0034	<0.0042	0.007	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	0.002	<0.0037	<0.0041	<0.004
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	0.002	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	<0.0042	<0.001	-	-	<0.0042	<0.0009	-	-	-	-	<0.0041	<0.005	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0034	<0.0042	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.0009	<0.0037	<0.0041	<0.004
Perfluorotridecanoic acid (PFTriDA)	NCL	NA	<0.0034	<0.0042	<0.001	<0.0035	<0.0034	<0.0042	<0.0009	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.0009	<0.0037	<0.0041	<0.004
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0034	<0.0042	<0.002	<0.0035	<0.0034	<0.0042	<0.002	<0.0038	<0.0036	<0.0037	<0.0037	<0.0041	<0.002	<0.0037	<0.0041	<0.004
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	ND	ND	ND	ND	ND	0.0073	ND	ND	ND	ND	ND	0.002	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427018	411004427018	411004427018	411004427018	411004427018	411004427018	411004427018	411004427017	411004427017	411004427017	411004427017	411004427017	411004427010	411004427010	411004427010	411004427010
Address			7835 STRAWBERRY LN NE	7835 STRAWBERRY LN NE	7835 STRAWBERRY LN NE	7835 STRAWBERRY LN NE	7835 STRAWBERRY LN NE	7835 STRAWBERRY LN NE	7857 STRAWBERRY LN NE	7857 STRAWBERRY LN NE	7857 STRAWBERRY LN NE	7857 STRAWBERRY LN NE	7857 STRAWBERRY LN NE	7857 STRAWBERRY LN NE	7876 STRAWBERRY LN NE	7876 STRAWBERRY LN NE	7876 STRAWBERRY LN NE	7876 STRAWBERRY LN NE
Sample Name			7835 STRAWBERRY LANE	7835 Strawberry LN-IN-2/1 Grab Potable Water	7835 STRAWBERRY LANE-IN-8/2	7835 Strawberry-IN-2/6	7835 Strawberry Ln-IN-7/31	7835 Strawberry Ln-IN-1/9	7857 Strawberry Lane	7857 Strawberry-IN-12/11 Grab Water	7857 Strawberry Lane-IN-6/11	7857 Strawberry Ln NE-IN-12/17	7857 Strawberry Ln-IN-6/19	7857 Strawberry-IN-12/18	7876 Strawberry Lane	7876 Strawberry-IN-12/4 Grab Water	7876 Strawberry Ln NE-IN-12/4	7876 Strawberry-IN-12/04
Matrix			Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent
Laboratory ID			K1709967-009	9438885	L1830310-06	UB07040-006	UH01045-010	VA11011-004	K1710171-023	9362365	TF12019-008	TL21043-006	UF20015-004	UL19008-009	K1710423-018	9349315	TL06069-003	UL05028-022
Sample Date			09/15/2017	02/01/2018	08/02/2018	02/06/2019	07/31/2019	01/09/2020	09/20/2017	12/11/2017	06/11/2018	12/17/2018	06/19/2019	12/18/2019	09/26/2017	12/04/2017	12/04/2018	12/04/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0042	0.007	-	-	-	-	<0.0042	<0.006	-	-	-	-	<0.0041	<0.006	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0042	<0.008	-	-	-	-	<0.0042	<0.009	-	-	-	-	<0.0041	<0.009	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0042	<0.008	-	-	-	-	<0.0042	<0.009	-	-	-	-	<0.0041	<0.009	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	<0.0037	<0.0036	<0.0034	<0.0034	-	-	<0.0037	<0.0036	<0.0036	<0.0038	-	-	<0.0038	<0.0038
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0042	<0.003	-	-	-	-	<0.0042	<0.003	-	-	-	-	<0.0041	<0.003	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0042	<0.008	-	-	-	-	<0.0042	<0.009	-	-	-	-	<0.0041	<0.009	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	<0.0037	<0.0036	<0.0034	<0.0034	-	-	<0.0037	<0.0036	<0.0036	<0.0038	-	-	<0.0038	<0.0038
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0042	<0.003	-	-	-	-	<0.0042	<0.003	-	-	-	-	<0.0041	<0.003	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0042	0.003	<0.0037	<0.0036	0.0042	0.0039	<0.0042	<0.0009	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.001	<0.0038	<0.0038
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0042	<0.002	-	-	-	-	<0.0042	<0.002	-	-	-	-	<0.0041	<0.002	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0042	<0.002	-	-	-	-	<0.0042	<0.002	-	-	-	-	<0.0041	<0.002	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0042	<0.003	-	-	-	-	<0.0042	<0.003	-	-	-	-	<0.0041	<0.003	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0042	<0.002	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	<0.002	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.002	<0.0038	<0.0038
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0083	<0.006	-	-	-	-	<0.0083	<0.006	-	-	-	-	<0.0081	<0.006	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0042	<0.002	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	0.001 J	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.002	<0.0038	<0.0038
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0042	<0.0009	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	<0.0009	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.001	<0.0038	<0.0038
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0042	<0.0009	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	<0.0009	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.001	<0.0038	<0.0038
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0042	0.0004 J	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	<0.002	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.002	<0.0038	<0.0038
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0042	<0.002	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	<0.002	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.002	<0.0038	<0.0038
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0017	0.001	<0.0037	<0.0036	<0.0034	<0.0034	<0.0017	<0.0009	<0.0037	<0.0036	<0.0036	<0.0038	<0.0016	<0.001	<0.0038	<0.0038
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0042	0.0007 J	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	0.028 E	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	0.001 J	<0.0038	<0.0038
PFOA + PFOS (Calculated)	0.07	NA	ND	0.0017	ND	ND	ND	ND	ND	0.028	ND	ND	ND	ND	ND	0.001	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0042	<0.006	-	-	-	-	<0.0042	<0.006	-	-	-	-	<0.0041	<0.006	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0042	<0.0009	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	<0.0009	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.001	<0.0038	<0.0038
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0042	<0.0009	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	<0.0009	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.001	<0.0038	<0.0038
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0042	<0.002	<0.0037	<0.0036	<0.0034	<0.0034	<0.0042	<0.002	<0.0037	<0.0036	<0.0036	<0.0038	<0.0041	<0.002	<0.0038	<0.0038
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	0.012	ND	ND	0.0042	0.0039	ND	0.029	ND	ND	ND	ND	ND	0.001	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411003301003	411003301003	411003301003	411003301003	411004427011	411004427011	411004427011	411004427011	411004427016	411004427016	411004427016	411004427016	411004427016	411004427016	411004427015	411004427015
Address			7877 BELMONT AVE NE	7877 BELMONT AVE NE	7877 BELMONT AVE NE	7877 BELMONT AVE NE	7900 STRAWBERRY LN NE	7900 STRAWBERRY LN NE	7900 STRAWBERRY LN NE	7900 STRAWBERRY LN NE	7909 STRAWBERRY LN NE	7909 STRAWBERRY LN NE	7909 STRAWBERRY LN NE	7909 STRAWBERRY LN NE	7909 STRAWBERRY LN NE	7909 STRAWBERRY LN NE	7917 STRAWBERRY LN NE	7917 STRAWBERRY LN NE
Sample Name			7877 BELMONT	7877 Belmont NE-IN-121917 Grab Potable Water	7877 Belmont-IN-3/14	7877 Belmont-IN-9/5	7900 STRAWBERRY LANE	7900 Strawberry-IN-12/4 Grab Water	7900 Strawberry Ln NE-IN-12/4	7900 Strawberry-IN-12/04	7909 STRAWBERRY LANE	7909 Strawberry Ln NE-IN-12/20 Grab Potable Water	7909 Strawberry-IN-6/20	7909 Strawberry Ln-IN-3/5	7909 Strawberry Ln-IN-9/5	7917 STRAWBERRY LANE	7917 Strawberry LN-IN-12/13 Grab Potable Water	7917 Strawberry-IN-6/20
Matrix			Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent
Laboratory ID			K1710940-004	9381521	UC16010-006	UI07027-008	K1710940-023	9349334	TL06069-006	UL05028-036	K1709967-018	9381471	TF21005-012	UC07051-005	UI07027-002	K1709967-017	9367791	TF21005-010
Sample Date			10/05/2017	12/19/2017	03/14/2019	09/05/2019	10/06/2017	12/04/2017	12/04/2018	12/04/2019	09/18/2017	12/20/2017	06/20/2018	03/05/2019	09/05/2019	09/18/2017	12/13/2017	06/20/2018
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0042	<0.006	-	-	<0.0044	<0.006	-	-	<0.0041	<0.006	-	-	-	<0.0041	<0.006	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0042	<0.008	-	-	<0.0044	<0.009	-	-	<0.0041	<0.008	-	-	-	<0.0041	<0.008	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0042	<0.008	-	-	<0.0044	<0.009	-	-	<0.0041	<0.008	-	-	-	<0.0041	<0.008	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	<0.0036	<0.0036	-	-	<0.0037	<0.0038	-	-	<0.0037	<0.0036	<0.0038	-	-	<0.0037
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0042	<0.003	-	-	<0.0044	<0.003	-	-	<0.0041	<0.003	-	-	-	<0.0041	<0.003	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0042	<0.008	-	-	<0.0044	<0.009	-	-	<0.0041	<0.008	-	-	-	<0.0041	<0.008	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	<0.0036	<0.0036	-	-	<0.0037	<0.0038	-	-	<0.0037	<0.0036	<0.0038	-	-	<0.0037
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0042	<0.003	-	-	<0.0044	<0.003	-	-	<0.0041	<0.003	-	-	-	<0.0041	<0.003	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0042	0.003	<0.0036	<0.0036	<0.0044	0.0007 J	<0.0037	<0.0038	<0.0041	0.001	<0.0037	<0.0036	<0.0038	<0.0041	0.0007 J	<0.0037
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0042	<0.002	-	-	<0.0044	<0.002	-	-	<0.0041	<0.002	-	-	-	<0.0041	<0.002	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0042	<0.002	-	-	<0.0044	<0.002	-	-	<0.0041	<0.002	-	-	-	<0.0041	<0.002	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0042	<0.003	-	-	<0.0044	<0.003	-	-	<0.0041	<0.003	-	-	-	<0.0041	<0.003	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0042	0.002 J	<0.0036	<0.0036	<0.0044	<0.002	<0.0037	<0.0038	<0.0041	<0.002	<0.0037	<0.0036	<0.0038	<0.0041	<0.002	<0.0037
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0085	<0.006	-	-	<0.0088	<0.006	-	-	<0.0081	<0.006	-	-	-	<0.0081	<0.006	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0042	<0.002	<0.0036	<0.0036	<0.0044	<0.002	<0.0037	<0.0038	<0.0041	<0.002	<0.0037	<0.0036	<0.0038	<0.0041	<0.002	<0.0037
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0042	<0.0009	<0.0036	<0.0036	<0.0044	<0.001	<0.0037	<0.0038	<0.0041	<0.0009	<0.0037	<0.0036	<0.0038	<0.0041	<0.0009	<0.0037
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0042	0.001	<0.0036	<0.0036	<0.0044	<0.001	<0.0037	<0.0038	<0.0041	<0.0009	<0.0037	<0.0036	<0.0038	<0.0041	<0.0009	<0.0037
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0042	0.003	<0.0036	<0.0036	<0.0044	<0.002	<0.0037	<0.0038	<0.0041	<0.002	<0.0037	<0.0036	<0.0038	<0.0041	<0.002	<0.0037
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0042	<0.002	<0.0036	<0.0036	<0.0044	<0.002	<0.0037	<0.0038	<0.0041	<0.002	<0.0037	<0.0036	<0.0038	<0.0041	<0.002	<0.0037
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.0021	0.002	<0.0036	<0.0036	<0.0018	<0.001	<0.0037	<0.0038	<0.0016	0.0005 J	<0.0037	<0.0036	<0.0038	<0.0016	<0.0009	<0.0037
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0042	0.002 J	<0.0036	<0.0036	<0.0044	0.001 J	<0.0037	<0.0038	<0.0041	0.006	<0.0037	<0.0036	<0.0038	<0.0041	0.008	<0.0037
PFOA + PFOS (Calculated)	0.07	NA	0.0021	0.004	ND	ND	ND	0.001	ND	ND	ND	0.0065	ND	ND	ND	ND	0.008	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0042	0.003 J	-	-	<0.0044	<0.006	-	-	<0.0041	<0.006	-	-	-	<0.0041	<0.006	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0042	<0.0009	<0.0036	<0.0036	<0.0044	<0.001	<0.0037	<0.0038	<0.0041	<0.0009	<0.0037	<0.0036	<0.0038	<0.0041	<0.0009	<0.0037
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0042	<0.0009	<0.0036	<0.0036	<0.0044	<0.001	<0.0037	<0.0038	<0.0041	<0.0009	<0.0037	<0.0036	<0.0038	<0.0041	<0.0009	<0.0037
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0042	<0.002	<0.0036	<0.0036	<0.0044	<0.002	<0.0037	<0.0038	<0.0041	<0.002	<0.0037	<0.0036	<0.0038	<0.0041	<0.002	<0.0037
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0021	0.016	ND	ND	ND	0.0017	ND	ND	ND	0.0075	ND	ND	ND	ND	0.0087	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427015	411004427015	411004427015	411003301002	411003301002	411003301002	411003301002	411003301002	411003301002	411004427014	411004427014	411004427014	411004427014	411004427014	411004427014	411004427013
Address			7917 STRAWBERRY LN NE	7917 STRAWBERRY LN NE	7917 STRAWBERRY LN NE	7923 BELMONT AVE NE	7923 BELMONT AVE NE	7923 BELMONT AVE NE	7923 BELMONT AVE NE	7923 BELMONT AVE NE	7923 BELMONT AVE NE	7925 STRAWBERRY LN NE	7925 STRAWBERRY LN NE	7925 STRAWBERRY LN NE	7925 STRAWBERRY LN NE	7925 STRAWBERRY LN NE	7925 STRAWBERRY LN NE	7933 STRAWBERRY LN NE
Sample Name			7917 Strawberry Ln NE-IN-12/20	7917 Strawberry Ln-IN-6/20	7917 Strawberry-IN-1/29	7923 Belmont	7923 Belmont-IN-12/29 Grab Potable Water	7923 Belmont-IN-6/29	7923 Belmont Ave NE-IN-12/27	7923 Belmont-IN-6/27	7923 Belmont-IN-12/19	7925 STRAWBERRY LANE	7925 Strawberry Ln NE-IN-121917 Grab Potable Water	7925 Strawberry-IN-6/19	7925 Strawberry Ln-IN-12/18	7925 Strawberry-Ln-IN-6/18	7925 Strawberry-IN-12/18	7933 STRAWBERRY LANE
Matrix			POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water
Laboratory ID			TL22018-002	UF22011-006	VA30052-013	K1710610-008	9389589	TF30013-011	TL29003-009	UF29003-004	UL21016-002	K1709967-016	9381526	TF21006-011	TL21042-006	UF20012-006	UL19007-008	K1709967-015
Sample Date			12/20/2018	06/20/2019	01/29/2020	09/29/2017	12/29/2017	06/29/2018	12/27/2018	06/27/2019	12/19/2019	09/18/2017	12/19/2017	06/19/2018	12/18/2018	06/18/2019	12/18/2019	09/18/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	-	-	<0.0043	<0.005	-	-	-	-	<0.0041	<0.006	-	-	-	-	<0.0041
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0041	<0.008	-	-	-	-	<0.0041
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0041	<0.008	-	-	-	-	<0.0041
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.0039	<0.004	<0.0038	-	-	<0.0036	<0.0039	<0.0038	<0.0037	-	-	<0.0035	<0.004	<0.0038	<0.0037	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0041	<0.003	-	-	-	-	<0.0041
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0041	<0.008	-	-	-	-	<0.0041
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.0039	<0.004	<0.0038	-	-	<0.0036	<0.0039	<0.0038	<0.0037	-	-	<0.0035	<0.004	<0.0038	<0.0037	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0041	<0.003	-	-	-	-	<0.0041
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0039	<0.004	<0.0038	<0.0043	0.004	0.0036	0.0045	0.0048	0.0042	<0.0041	<0.0009	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	-	-	<0.0043	<0.002	-	-	-	-	<0.0041	<0.002	-	-	-	-	<0.0041
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	-	-	<0.0043	<0.002	-	-	-	-	<0.0041	<0.002	-	-	-	-	<0.0041
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0041	<0.003	-	-	-	-	<0.0041
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0039	<0.004	<0.0038	<0.0043	<0.002	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	<0.002	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluorobutanoic acid (PFBA)	NCL	NA	-	-	-	<0.0086	<0.005	-	-	-	-	<0.0081	<0.006	-	-	-	-	<0.0081
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0039	<0.004	<0.0038	<0.0043	<0.002	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	<0.002	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0039	<0.004	<0.0038	<0.0043	<0.0009	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	<0.0009	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0039	<0.004	<0.0038	<0.0043	<0.0009	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	<0.0009	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0039	<0.004	<0.0038	<0.0043	<0.002	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	<0.002	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0039	<0.004	<0.0038	<0.0043	<0.002	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	<0.002	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0039	<0.004	<0.0038	<0.0017	<0.0009	<0.0036	<0.0039	<0.0038	<0.0037	<0.0016	<0.0009	<0.0035	<0.004	<0.0038	<0.0037	<0.0016
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0039	<0.004	<0.0038	<0.0043	0.008	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	0.002	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
PFOA + PFOS (Calculated)	0.07	NA	ND	ND	ND	ND	0.008	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	-	-	<0.0043	<0.005	-	-	-	-	<0.0041	<0.006	-	-	-	-	<0.0041
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0039	<0.004	<0.0038	<0.0043	<0.0009	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	<0.0009	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0039	<0.004	<0.0038	<0.0043	<0.0009	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	<0.0009	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0039	<0.004	<0.0038	<0.0043	<0.002	<0.0036	<0.0039	<0.0038	<0.0037	<0.0041	<0.002	<0.0035	<0.004	<0.0038	<0.0037	<0.0041
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	ND	ND	ND	ND	0.012	0.0036	0.0045	0.0048	0.0042	ND	0.002	ND	ND	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427013	411004427013	411004427013	411004427013	411004427013	411004427012	411004427012	411004427012	411004427012	411004427012	411004427012	411004427012	411003301001	411003301001	411003301001	411003301001
Address			7933 STRAWBERRY LN NE	7933 STRAWBERRY LN NE	7933 STRAWBERRY LN NE	7933 STRAWBERRY LN NE	7933 STRAWBERRY LN NE	7936 STRAWBERRY LN NE	7936 STRAWBERRY LN NE	7936 STRAWBERRY LN NE	7936 STRAWBERRY LN NE	7936 STRAWBERRY LN NE	7936 STRAWBERRY LN NE	7936 STRAWBERRY LN NE	7965 BELMONT AVE NE	7965 BELMONT AVE NE	7965 BELMONT AVE NE	7965 BELMONT AVE NE
Sample Name			7933 Strawberry Lane-IN-12/28 Grab Potable Water	7933 Strawberry-IN-6/28	7933 Strawberry Ln-IN-1/15	7933 Strawberry-IN-7/18	7933 Strawberry Farms-IN-1/16	7936 Strawberry Lane	7936 Strawberry - IN 11/16 Grab Water	7936 STRAWBERRY LANE-IN-8/1	7936 Strawberry Ln-IN-2/18	7936 Strawberry Ln-IN-8/28	7936 Strawberry Ln-IN-2/19	7936 Strawberry Ln-IN-DUP	7965 Belmont	7965 Belmont Ave NE-IN-121917 Grab Potable Water	7965 Belmont Ave-IN-12/19	7965 Belmont-IN-12/19
Matrix			POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent
Laboratory ID			9389663	TF30007-002	UA17019-003	UG20006-008	VA18011-002	K1710423-016	9326985	L1829857-04	UB21021-002	UH29006-005	VB21017-010	VB21017-011	K1710610-009	9381525	TL21006-001	UL21018-001
Sample Date			12/28/2017	06/28/2018	01/15/2019	07/18/2019	01/16/2020	09/26/2017	11/16/2017	08/01/2018	02/18/2019	08/28/2019	02/19/2020	02/19/2020	09/29/2017	12/19/2017	12/19/2018	12/19/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.005	-	-	-	-	<0.0041	<0.006	-	-	-	-	-	<0.0042	<0.006	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.008	-	-	-	-	<0.0041	<0.006	-	-	-	-	-	<0.0042	<0.009	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.008	-	-	-	-	<0.0041	<0.009	-	-	-	-	-	<0.0042	<0.009	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	<0.0037	<0.0035	<0.0042	<0.0035	-	-	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	-	-	<0.0038	<0.0036
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.003	-	-	-	-	<0.0041	<0.006	-	-	-	-	-	<0.0042	<0.003	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.008	-	-	-	-	<0.0041	<0.02	-	-	-	-	-	<0.0042	<0.009	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	<0.0037	<0.0035	<0.0042	<0.0035	-	-	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	-	-	<0.0038	<0.0036
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.003	-	-	-	-	<0.0041	<0.006	-	-	-	-	-	<0.0042	<0.003	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	0.001	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	0.0008 J	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.001	<0.0038	<0.0036
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.002	-	-	-	-	<0.0041	<0.006	-	-	-	-	-	<0.0042	<0.002	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.002	-	-	-	-	<0.0041	<0.006	-	-	-	-	-	<0.0042	<0.002	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.003	-	-	-	-	<0.0041	<0.001	-	-	-	-	-	<0.0042	<0.003	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.002	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	<0.002	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.002	<0.0038	<0.0036
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.005	-	-	-	-	<0.0081	<0.005	-	-	-	-	-	<0.0083	<0.006	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.002	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	0.0007 J	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.002	<0.0038	<0.0036
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0009	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	<0.001	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.001	<0.0038	<0.0036
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0009	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	<0.001	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.001	<0.0038	<0.0036
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.002	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	<0.001	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.002	<0.0038	<0.0036
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.002	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	<0.001	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.002	<0.0038	<0.0036
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.0007 J	<0.0037	<0.0035	<0.0042	<0.0035	0.0048	0.001	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0017	<0.001	<0.0038	<0.0036
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	0.003	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	0.002 J	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	0.002 J	<0.0038	<0.0036
PFOA + PFOS (Calculated)	0.07	NA	0.0037	ND	ND	ND	ND	0.0048	0.003	ND	ND	ND	ND	ND	ND	0.002	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.005	-	-	-	-	<0.0041	<0.001	-	-	-	-	-	<0.0042	<0.006	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0009	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	<0.001	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.001	<0.0038	<0.0036
Perfluorotridecanoic acid (PFTriDA)	NCL	NA	<0.0009	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	<0.001	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.001	<0.0038	<0.0036
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.002	<0.0037	<0.0035	<0.0042	<0.0035	<0.0041	<0.002	<0.00384	<0.0038	<0.0037	<0.0038	<0.0035	<0.0042	<0.002	<0.0038	<0.0036
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0047	ND	ND	ND	ND	0.0048	0.0045	ND	ND	ND	ND	ND	ND	0.002	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427024	411004427024	411004427024	411004427024	411004427024	411004427024	411004427024	411004427028	411004427028	411004427028	411004427028	411004427028	411004427025	411004427025	411004427025	411004427025
Address			7969 STRAWBERRY LN NE	7969 STRAWBERRY LN NE	7969 STRAWBERRY LN NE	7969 STRAWBERRY LN NE	7969 STRAWBERRY LN NE	7969 STRAWBERRY LN NE	7969 STRAWBERRY LN NE	7970 STRAWBERRY LN NE	7970 STRAWBERRY LN NE	7970 STRAWBERRY LN NE	7970 STRAWBERRY LN NE	7970 STRAWBERRY LN NE	7985 STRAWBERRY LN NE	7985 STRAWBERRY LN NE	7985 STRAWBERRY LN NE	7985 STRAWBERRY LN NE
Sample Name			7969 Strawberry Lane	7969 Strawberry - IN - 11/16 Grab Water	7969 Strawberry-IN- 5/17	7969 Strawberry Ln NE-IN-11/15	7969 Strawberry Ln NE-IN-05/08	7969 Strawberry Ln-IN-11/20	7970 Strawberry Lane	7970 Strawberry LN-IN-12/11 Grab Water	7970 STRAWBERRY LANE-IN-8/7	7970 STRAWBERRY LN-IN-8/24	7970 Strawberry Lane-IN-3/1	7970 Strawberry Ln-IN-9/11	7985 STRAWBERRY LANE	7985 Strawberry LN NE-IN-1/4 Grab Potable Water	7985 STRAWBERRY-IN-8/3	7985 Strawberry Ln-IN-2/1
Matrix			Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent
Laboratory ID			K1710171-001	9326997	TE18088-009	TK17015-007	UE09022-008	UK21006-006	K1710771-006	9362380	L1830950-04	JC72584-10	UC02017-006	UI12034-007	K1709967-014	9396598	L1830312-04	UB02004-002
Sample Date			09/19/2017	11/16/2017	05/17/2018	11/15/2018	05/08/2019	11/20/2019	10/04/2017	12/11/2017	08/07/2018	08/24/2018	03/01/2019	09/11/2019	09/18/2017	01/04/2018	08/03/2018	02/01/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0042	<0.006	-	-	-	-	<0.0043	<0.006	-	-	-	-	<0.0041	<0.006	-	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0042	<0.006	-	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0041	<0.008	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0042	<0.009	-	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0041	<0.008	-	-
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-	-	<0.0035	<0.0039	<0.0038	<0.0036	-	-	<0.00372	<0.008	<0.0035	<0.0036	-	-	<0.00397	<0.0038
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0042	<0.006	-	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0041	<0.003	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0042	<0.02	-	-	-	-	<0.0043	<0.008	-	-	-	-	<0.0041	<0.008	-	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-	-	<0.0035	<0.0039	<0.0038	<0.0036	-	-	<0.00372	<0.008	<0.0035	<0.0036	-	-	<0.00397	<0.0038
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0042	<0.006	-	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0041	<0.003	-	-
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0042	0.005	0.0035	0.0039	0.004	0.0047	<0.0043	0.002	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	0.004	0.0043	0.0046
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0042	<0.006	-	-	-	-	<0.0043	<0.002	-	-	-	-	<0.0041	<0.002	-	-
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0042	<0.006	-	-	-	-	<0.0043	<0.002	-	-	-	-	<0.0041	<0.002	-	-
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0042	<0.001	-	-	-	-	<0.0043	<0.003	-	-	-	-	<0.0041	<0.003	-	-
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0042	0.002	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	0.0006 J	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	0.002 J	<0.00397	<0.0038
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0083	0.002 J	-	-	-	-	<0.0087	<0.006	-	-	-	-	<0.0081	<0.006	-	-
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0042	0.0007 J	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	<0.002	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	<0.002	<0.00397	<0.0038
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0042	<0.001	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	<0.0009	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	<0.0009	<0.00397	<0.0038
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0042	0.0008 J	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	<0.0009	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	0.0007 J	<0.00397	<0.0038
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0042	0.0004 J	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	<0.002	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	<0.002	<0.00397	<0.0038
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0042	<0.001	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	<0.002	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	<0.002	<0.00397	<0.0038
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.0043	0.005	<0.0035	<0.0039	<0.0038	0.0037	0.0018	0.001	<0.00372	<0.004	<0.0035	<0.0036	0.0039	0.004	0.004	0.0046
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0042	0.001 J	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	0.0008 J	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	0.002	<0.00397	<0.0038
PFOA + PFOS (Calculated)	0.07	NA	0.0043	0.006	ND	ND	ND	0.0037	0.0018	0.0018	ND	ND	ND	ND	0.0039	0.006	0.004	0.0046
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0042	<0.001	-	-	-	-	<0.0043	<0.006	-	-	-	-	<0.0041	<0.006	-	-
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0042	<0.001	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	<0.0009	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	<0.0009	<0.00397	<0.0038
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0042	<0.001	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	<0.0009	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	<0.0009	<0.00397	<0.0038
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0042	<0.002	<0.0035	<0.0039	<0.0038	<0.0036	<0.0043	<0.002	<0.00372	<0.004	<0.0035	<0.0036	<0.0041	<0.002	<0.00397	<0.0038
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0043	0.017	0.0035	0.0039	0.004	0.0084	0.0018	0.0044	ND	ND	ND	ND	0.0039	0.013	0.0083	0.0092

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
PPN			411004427025	411004427025	411004427027	411004427027	411004427027	411004427027	411004427027	411004427026	411004427026	411004427026	411004427026	411004427026	411003151002	411003151007	411003151008	411003152001
Address			7985 STRAWBERRY LN NE	7985 STRAWBERRY LN NE	7988 STRAWBERRY LN NE	7988 STRAWBERRY LN NE	7988 STRAWBERRY LN NE	7988 STRAWBERRY LN NE	7988 STRAWBERRY LN NE	8000 STRAWBERRY LN NE	8000 STRAWBERRY LN NE	8000 STRAWBERRY LN NE	8000 STRAWBERRY LN NE	8000 STRAWBERRY LN NE	8060 GRAPHIC DR NE	8080 GRAPHIC DR NE	8110 GRAPHIC DR NE	8166 GRAPHIC DR NE
Sample Name			7985 Strawberry Ln-IN-8/1	7985 Strawberry Ln-IN-1/8	7988 Strawberry Lane	7988 Strawberry Ln-IN-3/14 Grab Potable Water	7988 STRAWBERRY LN NE-IN-9/14	7988 Strawberry Ln-IN-4/18	7988 Strawberry Ln-IN-10/17	8000 Strawberry Lane	8000 Strawberry Lane-IN-2/14 Grab Potable Water	8000 STRAWBERRY LANE NE-IN-9/13	8000 Strawberry Lane-IN-3/14	8000 Strawberry Ln-IN-9/17	8060 GRAPHIC	8090/8080 GRAPHIC	8110 GRAPHIC	8166 GRAPHIC
Matrix			POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	POET Influent	POET Influent	POET Influent	POET Influent	Drinking Water	Drinking Water	Drinking Water	Drinking Water
Laboratory ID			UH03005-004	VA09056-007	K1710771-007	9506003	JC73967-10	UD20009-004	UI19017-002	K1710771-008	9458932	JC73967-2	UC16010-004	UI19029-002	K1710940-032	K1710940-031	K1710940-030	K1710940-029
Sample Date			08/01/2019	01/08/2020	10/04/2017	03/14/2018	09/14/2018	04/18/2019	10/17/2019	10/04/2017	02/14/2018	09/13/2018	03/14/2019	09/17/2019	10/06/2017	10/06/2017	10/06/2017	10/06/2017
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	-	-	<0.0043	<0.006	-	-	-	<0.0042	<0.006	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	-	-	<0.0043	<0.008	-	-	-	<0.0042	<0.008	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	-	-	<0.0043	<0.008	-	-	-	<0.0042	<0.008	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	<0.0037	<0.0041	-	-	<0.0073	<0.0037	<0.0038	-	-	<0.007	<0.0035	<0.0035	-	-	-	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	-	-	<0.0043	<0.003	-	-	-	<0.0042	<0.003	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	-	-	<0.0043	<0.008	-	-	-	<0.0042	<0.008	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	<0.0037	<0.0041	-	-	<0.0073	<0.0037	<0.0038	-	-	<0.007	<0.0035	<0.0035	-	-	-	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	-	-	<0.0043	<0.003	-	-	-	<0.0042	<0.003	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	0.0042	0.0048	<0.0043	0.0005 J	<0.0036	<0.0037	<0.0038	<0.0042	0.002	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	-	-	<0.0043	<0.002	-	-	-	<0.0042	<0.002	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	-	-	<0.0043	<0.002	-	-	-	<0.0042	<0.002	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorooctane sulfonamide (FOSA)	NCL	NA	-	-	<0.0043	<0.003	-	-	-	<0.0042	<0.003	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0037	<0.0041	<0.0043	<0.002	<0.0036	<0.0037	<0.0038	<0.0042	0.0006 J	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorobutanoic acid (PFBA)	NCL	NA	-	-	<0.0086	<0.006	-	-	-	<0.0085	<0.006	-	-	-	<0.0088	<0.0086	<0.0088	<0.0083
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0037	<0.0041	<0.0043	<0.002	<0.0036	<0.0037	<0.0038	<0.0042	<0.002	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0037	<0.0041	<0.0043	<0.0009	<0.0036	<0.0037	<0.0038	<0.0042	<0.0009	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0037	<0.0041	<0.0043	<0.0009	<0.0036	<0.0037	<0.0038	<0.0042	<0.0009	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0037	<0.0041	<0.0043	<0.002	<0.0036	<0.0037	<0.0038	<0.0042	<0.002	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0037	<0.0041	<0.0043	<0.002	<0.0036	<0.0037	<0.0038	<0.0042	<0.002	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorooctanoic acid (PFOA)	0.07	0.008	0.0042	0.0051	<0.0017	<0.0009	<0.0036	<0.0037	<0.0038	0.0029	0.001	<0.0035	<0.0035	<0.0035	<0.0018	<0.0017	<0.0018	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0037	<0.0041	<0.0043	0.006	<0.0036	<0.0037	<0.0038	<0.0042	0.001 J	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
PFOA + PFOS (Calculated)	0.07	NA	0.0042	0.0051	ND	0.006	ND	ND	ND	0.0029	0.002	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	-	-	<0.0043	<0.006	-	-	-	<0.0042	<0.006	-	-	-	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0037	<0.0041	<0.0043	<0.0009	<0.0036	<0.0037	<0.0038	<0.0042	<0.0009	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0037	<0.0041	<0.0043	<0.0009	<0.0036	<0.0037	<0.0038	<0.0042	<0.0009	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0037	<0.0041	<0.0043	<0.002	<0.0036	<0.0037	<0.0038	<0.0042	<0.002	<0.0035	<0.0035	<0.0035	<0.0044	<0.0043	<0.0044	<0.0042
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PFAS (Calculated)	NCL	NA	0.0084	0.0099	ND	0.0065	ND	ND	ND	0.0029	0.0046	ND	ND	ND	ND	ND	ND	ND

TABLE 2
SUMMARY OF DRINKING WATER ANALYTICAL DATA - PFAS
Area 6
Plainfield Township, Kent County, MI

Area	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Proposed MCL ³	Area 6
PPN			411003102007
Address			8195 GRAPHIC DR NE
Sample Name			8195 GRAPHIC
Matrix			Drinking Water
Laboratory ID			K1710940-028
Sample Date			10/06/2017
Parameter (µg/L)			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NA	<0.0043
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NA	<0.0043
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NA	<0.0043
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	NCL	NA	-
N-Ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	NCL	NA	<0.0043
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NA	<0.0043
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	NCL	NA	-
N-Methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	NCL	NA	<0.0043
Perfluorobutane sulfonic acid (PFBS)	NCL	0.42	<0.0043
Perfluorodecane sulfonic acid (PFDS)	NCL	NA	<0.0043
Perfluorooctadecanoic acid (PFODA)	NCL	NA	-
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NA	<0.0043
Perfluorooctane sulfonamide (FOSA)	NCL	NA	<0.0043
Perfluorohexane sulfonic acid (PFHxS)	NCL	0.051	<0.0043
Perfluorobutanoic acid (PFBA)	NCL	NA	<0.0086
Perfluorodecanoic acid (PFDA)	NCL	NA	<0.0043
Perfluorododecanoic acid (PFDoDA)	NCL	NA	<0.0043
Perfluoroheptanoic acid (PFHpA)	NCL	NA	<0.0043
Perfluorohexanoic acid (PFHxA)	NCL	400	<0.0043
Perfluorononanoic acid (PFNA)	NCL	0.006	<0.0043
Perfluorooctanoic acid (PFOA)	0.07	0.008	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07	0.016	<0.0043
PFOA + PFOS (Calculated)	0.07	NA	ND
Perfluoropentanoic acid (PFPeA)	NCL	NA	<0.0043
Perfluorotetradecanoic acid (PFTeDA)	NCL	NA	<0.0043
Perfluorotridecanoic acid (PFTrDA)	NCL	NA	<0.0043
Perfluoroundecanoic acid (PFUnDA)	NCL	NA	<0.0043
Perfluorohexadecanoic acid (PFHxDA)	NCL	NA	-
Total PFAS (Calculated)	NCL	NA	ND

TABLE 2 NOTES

Area 6

Plainfield Township, Kent County, MI

16.0062961.30

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NOTES:

1. Concentration and criteria units are micrograms per Liter (µg/L) or parts per billion (ppb). Calculated criteria and concentrations are rounded to two significant digits. "ND" indicates the parameters used in the calculation were not detected.
2. Michigan Part 201 Groundwater Cleanup Criteria are based on "Table 1, Groundwater: Residential and Nonresidential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Tier I Risk Based Screening Levels," Michigan Administrative Code, Cleanup Criteria Requirements for Response Activity, Rules 299.44 and 299.49, effective December 30, 2013; updated June 25, 2018.

Abbreviations Include:

"NCL" indicates no criterion listed in EGLE Table 1.

Footnotes Include:

(JJ) - Compliance with the drinking water criteria shall require comparing the sum of the PFOA and PFOS groundwater concentrations to the drinking water criterion of 0.07 µg/L.

3. Proposed Maximum Contaminant Levels (MCLs) were published by EGLE on October 11, 2019. These are included for reference.

Abbreviations Include:

"NA" indicates no Proposed MCL listed.

4. Bold, italic number with thick line border or italic parameter name indicates that parameter was detected above the Michigan Part 201 Groundwater Cleanup Criteria listed. Proposed MCLs are provided for reference only and results detected above the Proposed MCLs are not bolded or italicized.

5. Abbreviations include:

"< RL" indicates the parameter was analyzed for but not detected above the method detection limit; RL = Reporting Limit.

"DUP" indicates a duplicate sample.

"-" indicates the parameter was not analyzed.

"B" indicates the parameter was also detected in the method blank.

"J" indicates the parameter was detected at a concentration greater than the limit of quantitation (LOQ) but less than the detection limit (DL) and the result is estimated.

"E" indicates the sample was re-extracted outside of the method holding time and the recovery used as extraction standards recoveries improved. The data reported is from the initial trial of the sample and comparable results were observed between the two extractions.

TABLE 3
MONITORING WELL INSTALLATION INFORMATION
Area 6
Algoma and Plainfield Townships, Kent County, MI

Site Location	Well Ownership/ Data Provider	Well Field ID	Top of Casing Elevation (ft)	Ground Surface Elevation (ft)	Top of Screen Depth (ft bgs)	Bottom of Screen Depth (ft bgs)	Casing Diameter (in)	Casing Type	Aquifer Zone	Protective Casing Type
House Street	EGLE	HS-DEQ-MW1D	799.43	799.7	ND	123.82	ND	ND	D	ND
House Street	EGLE	HS-DEQ-MW1I	799.83	800.2	ND	77.58	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW1S	799.42	799.7	ND	56.56	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW3D	857.29	857.9	ND	177.41	ND	ND	D	ND
House Street	EGLE	HS-DEQ-MW3S	857.40	857.9	ND	106.45	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW4-102	733.80	734.4	ND	102.8	ND	ND	D	ND
House Street	EGLE	HS-DEQ-MW4-16	734.23	734.7	ND	16.04	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW4-53	734.33	734.7	ND	53.85	ND	ND	D	ND
House Street	EGLE	HS-DEQ-MW4-80	734.33	734.7	ND	80.09	ND	ND	D	ND
House Street	EGLE	HS-DEQ-MW4-85	733.61	734.4	ND	85.79	ND	ND	D	ND
House Street	EGLE	HS-DEQ-MW4-90	733.99	734.4	ND	89.68	ND	ND	D	ND
House Street	EGLE	HS-DEQ-MW4-97	733.71	734.4	ND	98.81	ND	ND	D	ND
House Street	EGLE	HS-DEQ-MW5D	812.95	813.5	ND	130.16	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW5S	813.12	813.5	ND	47.28	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW6D	795.59	796.4	ND	176.36	ND	ND	D	ND
House Street	EGLE	HS-DEQ-MW6S	796.09	796.4	ND	45.71	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW7-102	775.04	775.4	ND	102.11	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW7-33	775.15	775.4	ND	33.33	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW7-87	775.02	775.4	ND	87.71	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW7-94	775.16	775.4	ND	94.32	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW8D	677.86	678.2	ND	33.37	ND	ND	S	ND
House Street	EGLE	HS-DEQ-MW8S	677.87	678.2	ND	28.28	ND	ND	S	ND
House Street	R&W/GZA	HS-MW-10D	780.94	778.1	188.2	193.2	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-10M	780.64	777.7	126.4	131.4	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-10S	780.06	777.2	48.3	58.3	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-11D	744.75	742.1	153.6	158.6	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-11M	744.96	742.3	96.4	101.4	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-11S	744.78	742.1	21.2	31.2	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-12A	716.50	716.8	15.4	20.4	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-12B	716.36	716.8	51.5	56.5	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-12C	716.17	716.9	127.7	132.7	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-12D	716.48	717.0	158.7	163.7	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-12E	716.29	716.8	187.5	192.5	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-13A	ND	ND	79.0	84.0	2	PVC	ND	ND
House Street	R&W/GZA	HS-MW-13B	ND	ND	149.0	154.0	2	PVC	ND	ND
House Street	R&W/GZA	HS-MW-13C	ND	ND	199.5	114.5	2	PVC	ND	ND
House Street	R&W/GZA	HS-MW-14D	673.20	670.7	109.0	114.0	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-14M	673.53	671.0	68.1	73.1	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-14S	673.64	671.2	13.0	23.0	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-15D	642.86	639.7	108.6	118.6	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-15M	640.98	638.0	44.8	49.8	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-15S	640.71	637.5	6.9	16.9	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-17D	784.64	782.3	222.1	227.1	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-17M	784.17	781.9	167.3	172.3	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-17S	784.77	782.0	105.8	110.8	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-18D	684.73	682.0	140.6	145.6	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-18S	683.93	682.0	12.8	22.8	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-19D	680.79	677.7	85.9	95.9	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-19S	680.83	677.8	58.4	61.4	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-1D	790.73	788.7	172.3	176.9	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-1S	791.01	788.8	67.4	72.1	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-20D	706.64	703.9	126.1	131.1	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-20M	706.90	704.2	101.5	106.5	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-20S	706.72	703.9	61.1	66.1	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-21D	648.38	645.7	76.2	86.2	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-21M	648.85	645.9	59.0	64.0	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-21S	648.67	645.8	9.8	19.8	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-23A	791.23	791.7	72.1	77.1	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-23B	791.21	791.5	137.9	142.8	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-23C	791.09	791.4	210.2	215.0	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-23D	791.47	792.0	238.9	243.9	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-24A	776.01	776.3	55.6	60.4	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-24B	775.72	776.2	225.2	230.0	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-25D	650.61	651.1	65.7	70.7	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-25S	650.83	651.2	51.1	56.1	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-26D	651.75	652.1	79.6	84.6	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-26M	651.31	651.7	61.7	66.7	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-26S	651.88	652.0	25.8	30.8	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-27A	668.44	668.7	21.6	26.2	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-27B	668.49	668.9	35.4	38.0	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-27C	668.64	669.0	41.3	45.9	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-27D	668.54	668.9	52.4	56.4	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-27E	668.56	668.9	58.5	62.5	2	PVC	D	Flush

TABLE 3
MONITORING WELL INSTALLATION INFORMATION
Area 6
Algoma and Plainfield Townships, Kent County, MI

Site Location	Well Ownership/ Data Provider	Well Field ID	Top of Casing Elevation (ft)	Ground Surface Elevation (ft)	Top of Screen Depth (ft bgs)	Bottom of Screen Depth (ft bgs)	Casing Diameter (in)	Casing Type	Aquifer Zone	Protective Casing Type
House Street	R&W/GZA	HS-MW-28A	665.88	666.2	39.1	43.7	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-28B	666.14	666.4	43.3	47.9	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-28C	666.16	666.5	49.2	53.8	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-28D	665.89	666.3	62.2	66.8	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-28E	665.61	666.0	82.7	87.3	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-29A	633.13	630.3	3.5	13.5	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-29B	633.89	630.5	16.8	21.8	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-29C	633.60	630.4	27.2	32.2	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-29D	633.19	630.7	37.1	42.1	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-25	799.66	797.6	77.9	82.5	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-30A	672.78	673.0	46.9	51.5	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-30B	673.09	673.4	51.5	56.1	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-30C	672.90	673.1	77.4	82.0	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-30D	673.37	673.6	112.7	117.3	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-30E	672.32	672.9	123.2	127.7	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-31A	639.30	639.5	17.1	21.6	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-31B	639.27	639.3	26.0	30.5	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-31C	639.27	639.4	41.3	45.8	2	PVC	S	Flush
House Street	R&W/GZA	HS-MW-31D	638.96	639.1	48.8	53.4	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-31E	638.95	639.2	64.1	68.7	2	PVC	D	Flush
House Street	R&W/GZA	HS-MW-32A	727.36	724.8	60.9	65.5	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-32B	727.85	725.1	79.1	83.7	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-32C	727.72	725.1	108.8	113.4	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-32D	727.55	725.0	142.3	146.9	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-3P	790.15	787.7	19.3	24.3	2	PVC	P	Stickup
House Street	R&W/GZA	HS-MW-3S	790.69	788.1	70.1	75.0	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-4S	784.88	782.3	70.2	74.8	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-5D	781.99	779.3	190.5	200.5	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-5P	781.55	779.1	17.7	22.4	2	PVC	P	Stickup
House Street	R&W/GZA	HS-MW-5S	781.79	779.2	60.3	65.0	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-6D	773.44	771.0	157.5	162.5	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-6S	773.34	770.7	58.2	62.9	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-7S	791.09	788.9	69.9	74.5	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-8	745.09	742.2	30.0	35.0	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-9D	820.88	818.2	204.3	209.3	2	PVC	D	Stickup
House Street	R&W/GZA	HS-MW-9M	820.66	817.9	126.8	131.8	2	PVC	S	Stickup
House Street	R&W/GZA	HS-MW-9S	820.20	817.8	26.2	31.2	2	PVC	P	Stickup
North Kent Landfill	NKL	NKLF-MW-35	900.23	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-48	901.64	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-53	893.99	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-54	912.79	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-55	893.11	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-56	867.88	866.4	ND	43.97	ND	ND	S	ND
North Kent Landfill	NKL	NKLF-MW-57	894.35	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-60	844.35	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-61	841.14	839.8	ND	28.47	ND	ND	S	ND
North Kent Landfill	NKL	NKLF-MW-63	840.81	839.1	ND	102.41	ND	ND	D	ND
North Kent Landfill	NKL	NKLF-MW-65	835.27	834.2	ND	21.87	ND	ND	S	ND
North Kent Landfill	NKL	NKLF-MW-66	874.57	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-67	902.72	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-68	900.98	899.2	ND	92.79	ND	ND	S	ND
North Kent Landfill	NKL	NKLF-MW-69	893.04	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-70	897.8	895.6	ND	63.33	ND	ND	S	ND
North Kent Landfill	NKL	NKLF-MW-71	894.71	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-72	882.18	879.5	ND	26.98	ND	ND	S	ND
North Kent Landfill	NKL	NKLF-MW-73	900.19	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-74	880.34	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-75	881.23	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-76	849.47	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-77	837.14	834.2	ND	22.8	ND	ND	S	ND
North Kent Landfill	NKL	NKLF-MW-78	883.89	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-80	888.05	887.4	ND	42.44	ND	ND	S	ND
North Kent Landfill	NKL	NKLF-MW-81	834.71	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-MW-82	896.26	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-TW-02	900.95	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-TW-04	858.20	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-TW-05	838.64	ND	ND	ND	ND	ND	ND	ND
North Kent Landfill	NKL	NKLF-TW-06	883.99	ND	ND	ND	ND	ND	ND	ND
Wolven	EGLE	WV-DEQ-MW10-121	764.74	763.865	ND	120.72	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW10-177	764.934	763.865	ND	177.63	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW10-55	764.909	763.376	ND	55.21	ND	ND	S	ND
Wolven	EGLE	WV-DEQ-MW10-84	764.442	763.376	ND	84.14	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW10-95	764.931	763.376	ND	95.25	ND	ND	D	ND

TABLE 3
MONITORING WELL INSTALLATION INFORMATION
 Area 6
 Algoma and Plainfield Townships, Kent County, MI

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 Page 3 of 3

Site Location	Well Ownership/ Data Provider	Well Field ID	Top of Casing Elevation (ft)	Ground Surface Elevation (ft)	Top of Screen Depth (ft bgs)	Bottom of Screen Depth (ft bgs)	Casing Diameter (in)	Casing Type	Aquifer Zone	Protective Casing Type
Wolven	EGLE	WV-DEQ-MW11-130	859.121	855.95	ND	130.22	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW11-137	859.212	855.763	ND	136.65	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW11-145	859.14	855.95	ND	145.71	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW11-57	858.794	855.95	ND	56.99	ND	ND	S	ND
Wolven	EGLE	WV-DEQ-MW11-95	859.129	855.763	ND	95.47	ND	ND	S	ND
Wolven	EGLE	WV-DEQ-MW2D	877.53	877.80	ND	168.72	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW2S	877.57	877.80	ND	58.04	ND	ND	S	ND
Wolven	EGLE	WV-DEQ-MW9-114	712.079	712.402	ND	114.07	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW9-131	712.031	712.402	ND	130.97	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW9-57	712.128	712.562	ND	56.85	ND	ND	ND	ND
Wolven	EGLE	WV-DEQ-MW9-73	712.096	712.562	ND	73.34	ND	ND	D	ND
Wolven	EGLE	WV-DEQ-MW9-94	711.979	712.562	ND	94.09	ND	ND	D	ND
Wolven	R&W/GZA	WV-MW-1	859.24	859.2	137.8	142.8	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-10D	751.00	748.6	165	170	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-10M	751.19	748.7	69.9	74.9	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-10S	751.26	748.4	7.0	12.0	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-11D	735.96	733.0	158.9	163.9	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-11S	735.89	732.8	29.4	34.4	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-12D	771.12	771.4	179.2	184.2	2	PVC	D	Flush
Wolven	R&W/GZA	WV-MW-12M	770.75	771.3	146.6	151.6	2	PVC	D	Flush
Wolven	R&W/GZA	WV-MW-12S	771.06	771.3	75.8	80.8	2	PVC	S	Flush
Wolven	R&W/GZA	WV-MW-13D	823.91	821.3	58.8	63.8	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-13M	823.75	821.6	18.1	23.1	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-13S	823.68	821.3	1.7	6.7	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-14D	872.05	872.3	142.3	147.3	2	PVC	D	Flush
Wolven	R&W/GZA	WV-MW-14S	872.18	872.5	8.9	13.9	2	PVC	S	Flush
Wolven	R&W/GZA	WV-MW-15A	721.25	721.5	9.0	14	2	PVC	P	Flush
Wolven	R&W/GZA	WV-MW-15B	721.07	721.4	33.1	38.1	2	PVC	S	Flush
Wolven	R&W/GZA	WV-MW-15C	720.84	721.3	43.7	48.5	2	PVC	S	Flush
Wolven	R&W/GZA	WV-MW-15D	721.09	721.3	135.1	137.8	2	PVC	D	Flush
Wolven	R&W/GZA	WV-MW-16D	823.45	820.9	91.7	96.7	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-16S	823.42	820.9	17.5	22.5	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-2D	791.36	790.5	30.2	35.2	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-2S	793.39	790.6	20.2	25.2	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-3D	823.28	820.7	57.5	62.5	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-3S	823.31	820.6	5.1	10.1	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-4	854.99	852.5	130.2	135.2	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-5D	865.07	862.0	68.7	73.7	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-5S	865.01	862.1	61.5	66.5	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-6D	786.51	784.1	99.1	104.1	2	PVC	D	Stickup
Wolven	R&W/GZA	WV-MW-6S	786.62	784.6	13.3	18.3	2	PVC	S	Stickup
Wolven	R&W/GZA	WV-MW-7D	727.36	727.8	89.5	94.5	2	PVC	S	Flush
Wolven	R&W/GZA	WV-MW-7M	728.19	728.5	49.9	54.9	2	PVC	S	Flush
Wolven	R&W/GZA	WV-MW-7S	727.61	728.0	16.1	21.1	2	PVC	S	Flush
Wolven	R&W/GZA	WV-MW-8D	845.81	846.0	117.2	122.2	2	PVC	D	Flush
Wolven	R&W/GZA	WV-MW-8M	845.74	845.9	60.0	65.0	2	PVC	S	Flush
Wolven	R&W/GZA	WV-MW-8S	845.55	846.0	30.0	35.0	2	PVC	S	Flush
Wolven	R&W/GZA	WV-MW-9	859.86	857.4	92.3	97.3	2	PVC	S	Stickup

Abbreviations

ND = No data provided/ available

ft = feet

bgs = below ground surface

in = inches

NKL = Kent County North Kent Landfill

EGLE = Michigan Department of Environment, Great Lakes, and Energy

R&W/GZA = Rose & Westra, a Division of GZA

P = perched zone

S = shallow zone

D = deep zone

Notes

1) Elevations are provided in North American Vertical Datum of 1988 (NAVD 88).

2) North Kent Landfill elevations converted from NGVD29 to NAVD88 by R&W/GZA by subtracting 0.43 feet from provided elevation.

TABLE 4
MONITORING WELL STATIC WATER LEVELS
Area 6
Algoma and Plainfield Townships, Kent County, MI

Site Location	Well Field ID	November 4, 2019 Static Water Level Elevation (ft)
*	HS-DEQ-MW1D	739.09
House Street	HS-DEQ-MW1I	748.63
House Street	HS-DEQ-MW1S	749.96
House Street	HS-DEQ-MW3D	748.76
House Street	HS-DEQ-MW3S	839.76
House Street	HS-DEQ-MW4-102	687.91
House Street	HS-DEQ-MW4-16	729.17
House Street	HS-DEQ-MW4-53	688.26
House Street	HS-DEQ-MW4-80	688.11
House Street	HS-DEQ-MW4-85	688.07
House Street	HS-DEQ-MW4-90	688.00
House Street	HS-DEQ-MW4-97	687.77
House Street	HS-DEQ-MW5D	740.83
House Street	HS-DEQ-MW5S	Dry
House Street	HS-DEQ-MW6D	650.30
House Street	HS-DEQ-MW6S	Dry
House Street	HS-DEQ-MW7-102	751.35
House Street	HS-DEQ-MW7-33	751.20
House Street	HS-DEQ-MW7-87	751.33
House Street	HS-DEQ-MW7-94	751.36
House Street	HS-DEQ-MW8D	652.76
House Street	HS-DEQ-MW8S	653.68
House Street	HS-MW-10D	734.19
House Street	HS-MW-10M	726.19
House Street	HS-MW-10S	726.18
House Street	HS-MW-11D	719.37
House Street	HS-MW-11M	719.35
House Street	HS-MW-11S	720.13
House Street	HS-MW-12A	ND
House Street	HS-MW-12B	ND
House Street	HS-MW-12C	ND
House Street	HS-MW-12D	ND
House Street	HS-MW-12E	ND
House Street	HS-MW-13A	ND
House Street	HS-MW-13B	ND
House Street	HS-MW-13C	ND
House Street	HS-MW-14D	660.09
House Street	HS-MW-14M	661.24
House Street	HS-MW-14S	656.70
House Street	HS-MW-15D	635.56
House Street	HS-MW-15M	634.13
House Street	HS-MW-15S	630.84
House Street	HS-MW-17D	689.38
House Street	HS-MW-17M	689.45
House Street	HS-MW-17S	703.64
House Street	HS-MW-18D	663.55
House Street	HS-MW-18S	670.37
House Street	HS-MW-19D	649.16
House Street	HS-MW-19S	651.59
House Street	HS-MW-1D	727.41
House Street	HS-MW-1S	728.00
House Street	HS-MW-20D	648.97
House Street	HS-MW-20M	649.07
House Street	HS-MW-20S	649.12
House Street	HS-MW-21D	638.75
House Street	HS-MW-21M	637.58
House Street	HS-MW-21S	637.79
House Street	HS-MW-23A	723.53
House Street	HS-MW-23B	723.47
House Street	HS-MW-23C	723.48
House Street	HS-MW-23D	723.45
House Street	HS-MW-24A	723.25
House Street	HS-MW-24B	723.21
House Street	HS-MW-25D	627.83
House Street	HS-MW-25S	627.93
House Street	HS-MW-26D	640.12
House Street	HS-MW-26M	639.96
House Street	HS-MW-26S	636.05
House Street	HS-MW-27A	644.51
House Street	HS-MW-27B	644.58
House Street	HS-MW-27C	645.51
House Street	HS-MW-27D	645.74

TABLE 4
MONITORING WELL STATIC WATER LEVELS
Area 6
Algoma and Plainfield Townships, Kent County, MI

Site Location	Well Field ID	November 4, 2019 Static Water Level Elevation (ft)
House Street	HS-MW-27E	645.61
House Street	HS-MW-28A	629.35
House Street	HS-MW-28B	629.37
House Street	HS-MW-28C	629.30
House Street	HS-MW-28D	630.25
House Street	HS-MW-28E	630.35
House Street	HS-MW-29A	ND
House Street	HS-MW-29B	ND
House Street	HS-MW-29C	ND
House Street	HS-MW-29D	ND
House Street	HS-MW-2S	725.55
House Street	HS-MW-30A	631.99
House Street	HS-MW-30B	632.00
House Street	HS-MW-30C	632.35
House Street	HS-MW-30D	632.53
House Street	HS-MW-30E	632.54
House Street	HS-MW-31A	624.83
House Street	HS-MW-31B	625.05
House Street	HS-MW-31C	624.83
House Street	HS-MW-31D	624.69
House Street	HS-MW-31E	624.77
House Street	HS-MW-32A	720.65
House Street	HS-MW-32B	720.67
House Street	HS-MW-32C	720.90
House Street	HS-MW-32D	720.75
House Street	HS-MW-3P	763.67
House Street	HS-MW-3S	724.86
House Street	HS-MW-4S	724.49
House Street	HS-MW-5D	724.82
House Street	HS-MW-5P	758.61
House Street	HS-MW-5S	724.82
House Street	HS-MW-6D	725.47
House Street	HS-MW-6S	725.44
House Street	HS-MW-7S	726.43
House Street	HS-MW-8	724.19
House Street	HS-MW-9D	744.72
House Street	HS-MW-9M	744.56
House Street	HS-MW-9S	793.72
North Kent Landfill	NKLF-MW-35	867.33
North Kent Landfill	NKLF-MW-48	870.29
North Kent Landfill	NKLF-MW-53	872.08
North Kent Landfill	NKLF-MW-54	877.50
North Kent Landfill	NKLF-MW-55	867.98
North Kent Landfill	NKLF-MW-56	845.56
North Kent Landfill	NKLF-MW-57	862.99
North Kent Landfill	NKLF-MW-60	834.09
North Kent Landfill	NKLF-MW-61	834.67
North Kent Landfill	NKLF-MW-63	752.97
North Kent Landfill	NKLF-MW-65	834.86
North Kent Landfill	NKLF-MW-66	871.83
North Kent Landfill	NKLF-MW-67	863.70
North Kent Landfill	NKLF-MW-68	867.15
North Kent Landfill	NKLF-MW-69	855.72
North Kent Landfill	NKLF-MW-70	848.12
North Kent Landfill	NKLF-MW-71	862.76
North Kent Landfill	NKLF-MW-72	856.81
North Kent Landfill	NKLF-MW-73	895.07
North Kent Landfill	NKLF-MW-74	871.50
North Kent Landfill	NKLF-MW-75	870.84
North Kent Landfill	NKLF-MW-76	848.24
North Kent Landfill	NKLF-MW-77	832.26
North Kent Landfill	NKLF-MW-78	836.08
North Kent Landfill	NKLF-MW-80	867.52
North Kent Landfill	NKLF-MW-81	831.74
North Kent Landfill	NKLF-MW-82	863.27
North Kent Landfill	NKLF-TW-02	863.72
North Kent Landfill	NKLF-TW-04	846.15
North Kent Landfill	NKLF-TW-05	835.50
North Kent Landfill	NKLF-TW-06	854.24
Wolven	WV-DEQ-MW10-121	719.14
Wolven	WV-DEQ-MW10-177	721.88
Wolven	WV-DEQ-MW10-55	723.29

TABLE 4
MONITORING WELL STATIC WATER LEVELS
Area 6
Algoma and Plainfield Townships, Kent County, MI

Site Location	Well Field ID	November 4, 2019 Static Water Level Elevation (ft)
Wolven	WV-DEQ-MW10-84	720.09
Wolven	WV-DEQ-MW10-95	715.81
Wolven	WV-DEQ-MW11-130	757.03
Wolven	WV-DEQ-MW11-137	757.20
Wolven	WV-DEQ-MW11-145	756.95
Wolven	WV-DEQ-MW11-57	815.57
Wolven	WV-DEQ-MW11-95	810.62
Wolven	WV-DEQ-MW2D	753.80
Wolven	WV-DEQ-MW2S	826.21
Wolven	WV-DEQ-MW9-114	711.27
Wolven	WV-DEQ-MW9-131	711.27
Wolven	WV-DEQ-MW9-57	703.29
Wolven	WV-DEQ-MW9-73	711.32
Wolven	WV-DEQ-MW9-94	711.39
Wolven	WV-MW-1	751.30
Wolven	WV-MW-10D	749.49
Wolven	WV-MW-10M	747.82
Wolven	WV-MW-10S	742.24
Wolven	WV-MW-11D	<i>Artesian Conditions</i>
Wolven	WV-MW-11S	726.20
Wolven	WV-MW-12D	716.97
Wolven	WV-MW-12M	716.94
Wolven	WV-MW-12S	721.81
Wolven	WV-MW-13D	803.32
Wolven	WV-MW-13M	820.92
Wolven	WV-MW-13S	820.91
Wolven	WV-MW-14D	731.14
Wolven	WV-MW-14S	861.25
Wolven	WV-MW-15A	ND
Wolven	WV-MW-15B	ND
Wolven	WV-MW-15C	ND
Wolven	WV-MW-15D	ND
Wolven	WV-MW-16D	761.52
Wolven	WV-MW-16S	815.71
Wolven	WV-MW-2D	785.38
Wolven	WV-MW-2S	790.29
Wolven	WV-MW-3D	802.01
Wolven	WV-MW-3S	819.14
Wolven	WV-MW-4	753.96
Wolven	WV-MW-5D	802.39
Wolven	WV-MW-5S	802.11
Wolven	WV-MW-6D	765.11
Wolven	WV-MW-6S	781.51
Wolven	WV-MW-7D	715.73
Wolven	WV-MW-7M	715.73
Wolven	WV-MW-7S	715.71
Wolven	WV-MW-8D	754.38
Wolven	WV-MW-8M	823.77
Wolven	WV-MW-8S	823.75
Wolven	WV-MW-9	824.90
Rogue River	Dam Seawall	680.71
Rogue River	E Bridge Street Bridge	680.34
Rogue River	Rogue River Road Bridge	618.90
Rogue River	Jericho Ave Bridge	672.24
Rogue River	USGS04118500	630.419
Rogue River	Rogue River at Rum Creek	692.84

Abbreviations

ND = No data provided/available
ft = feet

Notes

- 1) Elevations are provided in North American Vertical Datum of 1988 (NAVD 88).
- 2) Water level static measurements were completed on November 4, 2019 by R&W/GZA, AECOM (for EGLE), and North Kent Landfill.
- 3) North Kent Landfill elevations converted from NGVD29 to NAVD88 by R&W/GZA by subtracting 0.43 feet from provided elevation.

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-1D	HS-MW-1D	HS-MW-1D	HS-MW-1D	HS-MW-1S	HS-MW-1S	HS-MW-1S	HS-MW-1S	HS-MW-2S	HS-MW-2S	HS-MW-2S	HS-MW-2S	HS-MW-3S
Sample Name						HS-MW-1D	HS-GW-MW1D	HS-GW-MW1D	HS-GW-MW-1D	HS-MW-1S	HS-GW-MW1S	HS-GW-MW1S	HS-GW-MW-1S	HS-MW-2	HS-GW-MW2	HS-GW-MW2	HS-GW-MW-2S	HS-MW-3S
Well Screen Interval (Feet below ground surface)						172.3-176.9	172.3-176.9	172.3-176.9	172.3-176.9	67.4-72.1	67.4-72.1	67.4-72.1	67.4-72.1	77.9-82.5	77.9-82.5	77.9-82.5	77.9-82.5	70.1-75
Laboratory Sample ID(s)						UC16019-001	UE30036-007	UI28005-011	UL05055-005	UC16019-002	UE30036-008	UI28005-010	UL05055-003	UC16019-003	UE30036-015	UI28005-012	UL05055-009	UC16019-005
Sample Date						03/11/2019	05/29/2019	09/27/2019	12/02/2019	03/11/2019	05/29/2019	09/27/2019	12/02/2019	03/11/2019	05/30/2019	09/27/2019	12/03/2019	03/13/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0071	<0.0072	<0.0068	<0.0069	<0.007	<0.0076	<0.007	<0.0071	<0.0071	<0.0072	<0.0071	<0.0075	<0.007
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.0056	0.0057	0.005	0.0054	0.0057	0.0059	0.0051	0.0054	0.079	0.099	0.089	0.04	0.38
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	0.034
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0071	<0.0072	<0.0068	<0.0069	<0.007	<0.0076	<0.007	<0.0071	<0.0071	<0.0072	<0.0071	<0.0075	<0.007
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	0.0038	<0.0035	<0.0035	0.097	0.11	0.094	0.028	0.68
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	0.0035	0.04	0.034	0.026	0.022	0.046	0.055	0.03	0.022	1.5
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	0.0095	0.011	0.01	0.0063	0.093
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	0.023	0.022	0.018	0.0065	0.14
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	0.0053	0.0051	<0.0035	<0.0035	0.053	0.072	0.05	0.03	0.35
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
Perfluorooctanoic acid (PFOA)	0.07 (JJ)	12	ID	NCL	NCL	0.0091	0.0098	0.0087	0.01	0.0095	0.013	0.0064	0.0072	0.0088	0.019	0.006	0.0044	0.69
Perfluorooctane sulfonic acid (PFOS)	0.07 (JJ)	0.012	NLV	NCL	NCL	0.0042	0.0044	0.0034	0.0038	0.0046	0.012	<0.0035	0.006	<0.0035	<0.0036	<0.0036	<0.0037	0.032
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.013	0.014	0.012	0.014	0.014	0.025	0.0064	0.013	0.0088	0.019	0.006	0.0044	0.72
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	0.012	0.015	0.014	0.0076	0.11
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0034	<0.0034	<0.0035	<0.0038	<0.0035	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037	<0.0035
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.019	0.02	0.017	0.023	0.065	0.074	0.038	0.041	0.33	0.4	0.31	0.14	4

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-3S	HS-MW-3S	HS-MW-3S	HS-MW-3S	HS-MW-4S	HS-MW-4S	HS-MW-4S	HS-MW-4S	HS-MW-5D	HS-MW-5D	HS-MW-5D	HS-MW-5D	HS-MW-5D
Sample Name						HS-MW-3S DUP	HS-GW-MW3S	HS-GW-MW3S	HS-GW-MW-3S	HS-MW-4	HS-GW-MW4	HS-GW-MW4S	HS-GW-MW-4S	HS-MW-5D	HS-GW-MW5D	HS-GW-MW5D	HS-GW-MW-5D	HS-GW-MW-5D DUP
Well Screen Interval (Feet below ground surface)						70.1-75	70.1-75	70.1-75	70.1-75	70.2-74.8	70.2-74.8	70.2-74.8	70.2-74.8	190.5-200.5	190.5-200.5	190.5-200.5	190.5-200.5	190.5-200.5
Laboratory Sample ID(s)						UC16019-006	UE30036-016	UI26001-008	UL05055-011	UC16019-015	UE30036-014	UI26001-009	UL05055-020	UC16019-013	UE30036-005	UI26001-007	UL05055-018	UL05055-019
Sample Date						03/13/2019	05/30/2019	09/24/2019	12/03/2019	03/15/2019	05/30/2019	09/24/2019	12/04/2019	03/14/2019	05/28/2019	09/24/2019	12/04/2019	12/04/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.0071	<0.0069	<0.0071	<0.007	<0.0069	<0.007	<0.0074	<0.0071	<0.0069	<0.0073	<0.007	<0.0072
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.39	0.5	0.4	0.57	0.058	0.055	0.033	0.1	<0.0035	<0.0034	<0.0036	0.005	0.0068
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	0.04	0.065	0.056	0.05	0.56	0.46	0.27	0.74	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.0071	<0.0069	<0.0071	<0.007	<0.0069	<0.007	<0.0074	<0.0071	<0.0069	<0.0073	<0.007	<0.0072
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	0.6	0.92	0.71	0.75	0.18	0.19	0.14	0.38	<0.0035	<0.0034	<0.0036	0.0053	0.0077
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	1.3	2.1	1.7	1.6	3	2.9	2.1	4.6	<0.0035	<0.0034	0.0058	0.013	0.02
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	0.09	0.13	0.1	0.14	0.095	0.071	0.047	0.23	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	0.15	0.34	0.2	0.24	0.19	0.19	0.15	0.45	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	0.33	0.41	0.36	0.51	0.22	0.2	0.12	0.48	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	0.63	0.89	0.83	0.73	1.5	1.4	0.82	2.1	<0.0018	0.0028	0.0035	0.008	0.013
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	0.032	0.057	0.024	0.023	4.5	3.2	1.1	2.3	0.0053	0.011	0.0083	0.01	0.015
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.66	0.95	0.85	0.75	6	4.6	1.9	4.4	0.0053	0.014	0.012	0.018	0.028
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	0.11	0.14	0.13	0.16	0.094	0.075	0.048	0.21	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0035	<0.0035	<0.0037	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	3.7	5.6	4.5	4.8	10	8.7	4.8	12	0.0053	0.014	0.018	0.041	0.063

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-5S	HS-MW-5S	HS-MW-5S	HS-MW-5S	HS-MW-6D	HS-MW-6D	HS-MW-6D	HS-MW-6D	HS-MW-6S	HS-MW-6S	HS-MW-6S	HS-MW-6S	HS-MW-7S
Sample Name						HS-MW-5S	HS-GW-MW5S	HS-GW-MW5S	HS-GW-MW-5S	HS-MW-6D	HS-GW-MW6D	HS-GW-MW6D	HS-GW-MW-6D	HS-MW-6S	HS-GW-MW6S	HS-GW-MW6S	HS-GW-MW-6S	HS-MW-7S
Well Screen Interval (Feet below ground surface)						60.3-65	60.3-65	60.3-65	60.3-65	157.5-162.5	157.5-162.5	157.5-162.5	157.5-162.5	58.2-62.9	58.2-62.9	58.2-62.9	58.2-62.9	69.9-74.5
Laboratory Sample ID(s)						UC16019-012	UE30036-004	UI26001-006	UL05055-021	UC21029-008	UE30036-009	UI28005-004	UL05055-028	UC21029-007	UE30036-010	UI28005-005	UL05055-027	UC23028-001
Sample Date						03/14/2019	05/28/2019	09/24/2019	12/04/2019	03/20/2019	05/29/2019	09/26/2019	12/05/2019	03/20/2019	05/29/2019	09/26/2019	12/05/2019	03/21/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.16	<0.14	<0.14	<0.14	<0.007	<0.0071	<0.0072	<0.0071	<0.0073	<0.0069	<0.0072	<0.0072	<0.0071
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	1.9	1.6	1.4	1.4	<0.0035	<0.0036	<0.0036	<0.0036	0.047	0.0052	0.034	0.0046	0.0051
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	1.7	3.5	2.2	3.4	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.16	<0.14	<0.14	<0.14	<0.007	<0.0071	<0.0072	<0.0071	<0.0073	<0.0069	<0.0072	<0.0072	<0.0071
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	3.1	3.1	2.8	3.5	<0.0035	<0.0036	<0.0036	<0.0036	0.061	0.011	0.036	<0.0036	<0.0035
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	7.5	11	9.9	15	<0.0035	<0.0036	<0.0036	<0.0036	0.085	0.039	0.074	0.013	0.011
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	0.56	0.52	0.47	0.43	<0.0035	<0.0036	<0.0036	<0.0036	0.0046	<0.0035	0.0036	<0.0036	<0.0035
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	1.6	1.8	1.4	2.4	<0.0035	<0.0036	<0.0036	<0.0036	0.015	0.0043	0.012	<0.0036	<0.0035
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	1.5	1.6	1.3	1.3	<0.0035	<0.0036	<0.0036	<0.0036	0.031	0.0053	0.021	<0.0036	<0.0035
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	8.5	11	8.2	11	<0.0018	<0.0018	<0.0018	<0.0018	0.044	0.028	0.043	0.012	0.0029
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	42	100	59	71	<0.0035	<0.0036	<0.0036	<0.0036	0.0087	0.0059	0.005	0.0046	<0.0035
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	51	110	67	82	ND	ND	ND	ND	0.053	0.034	0.048	0.017	0.0029
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	0.65	0.61	0.54	0.51	<0.0035	<0.0036	<0.0036	<0.0036	0.0078	<0.0035	0.006	<0.0036	<0.0035
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.078	<0.07	<0.07	<0.071	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0036	<0.0036	<0.0035
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	69	130	87	110	ND	ND	ND	ND	0.3	0.099	0.23	0.034	0.019

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-7S	HS-MW-7S	HS-MW-7S	HS-MW-7S	HS-MW-8	HS-MW-8	HS-MW-8	HS-MW-8	HS-MW-9D	HS-MW-9D	HS-MW-9D	HS-MW-9D	HS-MW-9D
Sample Name						HS-MW-7S DUP	HS-GW-MW7S	HS-GW-MW7S	HS-GW-MW-7S	HS-MW-8	HS-GW-MW8	HS-GW-MW8	HS-GW-MW-8	HS-MW-9D	HS-GW-MW9D	HS-GW-MW9D DUP	HS-GW-MW9D	HS-GW-MW-9D
Well Screen Interval (Feet below ground surface)						69.9-74.5	69.9-74.5	69.9-74.5	69.9-74.5	30-35	30-35	30-35	30-35	204.3-209.3	204.3-209.3	204.3-209.3	204.3-209.3	204.3-209.3
Laboratory Sample ID(s)						UC23028-002	UE30036-017	UI26001-004	UL05055-022	UC23028-003	UE30036-006	UI26001-010	UL05055-031	UC21029-006	UE24001-014	UE24001-015	UI26001-014	UL12091-004
Sample Date						03/21/2019	05/30/2019	09/23/2019	12/04/2019	03/21/2019	05/29/2019	09/24/2019	12/06/2019	03/19/2019	05/22/2019	05/22/2019	09/25/2019	12/09/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.0069	<0.0067	<0.007	<0.0072	<0.0071	<0.0078	<0.0075	<0.007	<0.0072	<0.0071	<0.0068	<0.0076
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.0053	0.006	0.0046	0.0055	0.026	0.028	0.075	0.086	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	0.078	0.033	0.09	0.12	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.0069	<0.0067	<0.007	<0.0072	<0.0071	<0.0078	<0.0075	<0.007	<0.0072	<0.0071	<0.0068	<0.0076
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	0.044	0.035	0.13	0.11	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	0.0099	0.0089	0.0089	0.01	0.15	0.085	0.39	0.32	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	0.0066	0.0066	0.012	0.017	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	0.037	0.044	0.06	0.074	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	0.016	0.024	0.028	0.031	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorooctanoic acid (PFOA)	0.07 (U)	12	ID	NCL	NCL	0.003	0.0035	0.0029	0.003	0.38	0.35	1.3	0.7	<0.0017	<0.0018	<0.0018	<0.0017	<0.0019
Perfluorooctane sulfonic acid (PFOS)	0.07 (U)	0.012	NLV	NCL	NCL	<0.0035	0.0037	0.0047	0.0091	0.14	0.051	0.099	0.12	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.003	0.0072	0.0076	0.012	0.52	0.4	1.4	0.82	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	0.0055	0.0067	0.01	0.011	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0034	<0.0035	<0.0036	<0.0035	<0.0039	<0.0038	<0.0035	<0.0036	<0.0036	<0.0034	<0.0038
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.018	0.022	0.021	0.028	0.88	0.66	2.2	1.6	ND	ND	ND	ND	ND

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-9M	HS-MW-9M	HS-MW-9M	HS-MW-9M	HS-MW-9S	HS-MW-9S	HS-MW-9S	HS-MW-9S	HS-MW-9S	HS-MW-10D	HS-MW-10D	HS-MW-10D	HS-MW-10D
Sample Name						HS-MW-9M	HS-GW-MW9M	HS-GW-MW9M	HS-GW-MW-9M	HS-MW-9S	HS-GW-MW9S	HS-GW-MW9S	HS-GW-MW-9S	HS-GW-MW-9S DUP	HS-MW-10D	HS-GW-MW10D	HS-GW-MW10D	HS-GW-MW-10D
Well Screen Interval (Feet below ground surface)						126.8-131.8	126.8-131.8	126.8-131.8	126.8-131.8	26.2-31.2	26.2-31.2	26.2-31.2	26.2-31.2	26.2-31.2	188.2-193.2	188.2-193.2	188.2-193.2	188.2-193.2
Laboratory Sample ID(s)						UC21029-005	UE24001-013	UI26001-020	UL12091-003	UC21029-004	UE24001-012	UI26001-016	UL12091-013	UL12091-014	UC21029-003	UE24001-003	UI26001-015	UL05055-006
Sample Date						03/19/2019	05/22/2019	09/25/2019	12/09/2019	03/19/2019	05/22/2019	09/25/2019	12/11/2019	12/11/2019	03/18/2019	05/20/2019	09/25/2019	12/02/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	0.0039	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0071	<0.0069	<0.0071	<0.0071	<0.0073	<0.007	<0.0074	<0.0077	<0.0074	<0.0075	<0.007	<0.0072	<0.007
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0071	<0.0069	<0.0071	<0.0071	<0.0073	<0.007	<0.0074	<0.0077	<0.0074	<0.0075	<0.007	<0.0072	<0.007
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	0.0049	0.0049	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	<0.0018	<0.0017	<0.0018	<0.0018	<0.0018	<0.0017	<0.0018	0.0048	0.0049	<0.0019	<0.0017	<0.0018	<0.0018
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	0.0049	<0.0037	0.0076	0.0081	<0.0038	<0.0035	<0.0036	<0.0035
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	ND	ND	ND	ND	ND	0.0049	ND	0.012	0.013	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0038	<0.0037	<0.0038	<0.0035	<0.0036	<0.0035
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	ND	ND	ND	ND	ND	0.0049	0.0039	0.017	0.018	ND	ND	ND	ND

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-10M	HS-MW-10M	HS-MW-10M	HS-MW-10M	HS-MW-10M	HS-MW-10S	HS-MW-10S	HS-MW-10S	HS-MW-10S	HS-MW-11D	HS-MW-11D	HS-MW-11D	HS-MW-11D
Sample Name						HS-MW-10M	HS-GW-MW10M	HS-GW-MW10M	HS-GW-MW10M DUP	HS-GW-MW-10M	HS-MW-10S	HS-GW-MW10S	HS-GW-MW10S	HS-GW-MW-10S	HS-MW-11D	HS-GW-MW11D	HS-GW-MW11D	HS-GW-MW-11D
Well Screen Interval (Feet below ground surface)						126.4-131.4	126.4-131.4	126.4-131.4	126.4-131.4	126.4-131.4	48.3-58.3	48.3-58.3	48.3-58.3	48.3-58.3	153.6-158.6	153.6-158.6	153.6-158.6	153.6-158.6
Laboratory Sample ID(s)						UC21029-002	UE24001-002	UI26001-017	UI26001-018	UL05055-010	UC21029-001	UE24001-001	UI26001-019	UL05055-001	UC16019-011	UE24001-016	UI28005-003	UL05055-013
Sample Date						03/18/2019	05/20/2019	09/25/2019	09/25/2019	12/03/2019	03/18/2019	05/20/2019	09/25/2019	12/02/2019	03/14/2019	05/22/2019	09/26/2019	12/03/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.007	<0.0072	<0.0071	<0.0071	<0.007	<0.0078	<0.0072	<0.0071	<0.0076	<0.0075	<0.0073	<0.0075
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.0085	0.0063	0.0075	0.0079	0.0089	<0.0035	0.004	<0.0036	0.0037	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	0.0047	0.0049	<0.0036	0.0037	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.007	<0.0072	<0.0071	<0.0071	<0.007	<0.0078	<0.0072	<0.0071	<0.0076	<0.0075	<0.0073	<0.0075
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	0.0048	0.0036	0.0039	0.0039	0.0039	0.006	0.0084	0.014	0.013	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	0.0084	0.0072	0.0096	0.0094	0.01	0.012	0.015	0.018	0.021	<0.0019	<0.0019	<0.0018	<0.0019
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	0.013	0.012	0.012	0.011	0.013	0.04	0.036	0.024	0.024	<0.0038	<0.0037	<0.0036	<0.0038
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.021	0.019	0.022	0.02	0.023	0.052	0.051	0.042	0.045	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0035	<0.0036	<0.0035	<0.0036	<0.0035	<0.0039	<0.0036	<0.0035	<0.0038	<0.0037	<0.0036	<0.0038
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.035	0.029	0.033	0.032	0.036	0.063	0.068	0.056	0.065	ND	ND	ND	ND

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-11M	HS-MW-11M	HS-MW-11M	HS-MW-11M	HS-MW-11S	HS-MW-11S	HS-MW-11S	HS-MW-11S	HS-MW-12A	HS-MW-12B	HS-MW-12C	HS-MW-12D	HS-MW-12E
Sample Name						HS-MW-11M	HS-GW-MW11M	HS-GW-MW11M	HS-GW-MW-11M	HS-MW-11S	HS-GW-MW11S	HS-GW-MW11S	HS-GW-MW-11S	HS-GW-MW-12A	HS-GW-MW-12B	HS-GW-MW-12C	HS-GW-MW-12D	HS-GW-MW-12E
Well Screen Interval (Feet below ground surface)						96.4-101.4	96.4-101.4	96.4-101.4	96.4-101.4	21.2-31.2	21.2-31.2	21.2-31.2	21.2-31.2	15.4-20.4	51.5-56.5	127.7-132.7	158.7-163.7	187.5-192.5
Laboratory Sample ID(s)						UC16019-010	UE24001-018	UI28005-002	UL05055-012	UC16019-009	UE24001-017	UI28005-001	UL05055-014	UK29008-021	UK29008-012	UK29008-011	UK29008-010	UK29008-013
Sample Date						03/14/2019	05/22/2019	09/26/2019	12/03/2019	03/14/2019	05/22/2019	09/26/2019	12/03/2019	11/27/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0072	<0.0072	<0.0074	<0.0073	<0.0072	<0.0075	<0.0077	<0.0071	<0.0072	<0.0073	<0.0076	<0.0068	<0.007
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.014	0.013	0.046	0.05	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	0.13	0.14	<0.0035
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0072	<0.0072	<0.0074	<0.0073	<0.0072	<0.0075	<0.0077	<0.0071	<0.0072	<0.0073	<0.0076	<0.0068	<0.007
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	0.016	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	0.13	0.12	<0.0035
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	0.0045	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	0.0054	0.12	0.091	<0.0035
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	0.036	0.037	<0.0035
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	0.07	0.072	<0.0035
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	0.076	0.09	<0.0035
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	<0.0018	<0.0018	<0.0018	<0.0018	0.0024	0.0028	<0.0019	0.0041	0.0089	0.0023	0.19	0.17	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	0.0063	<0.0037	<0.0038	<0.0034	<0.0035
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	ND	ND	ND	ND	0.0024	0.0028	ND	0.0041	0.015	0.0023	0.19	0.17	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	0.0039	<0.0037	0.039	0.038	<0.0035
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0036	<0.0037	<0.0036	<0.0036	<0.0038	<0.0038	<0.0036	<0.0036	<0.0037	<0.0038	<0.0034	<0.0035
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.014	0.013	0.046	0.071	0.0024	0.0028	ND	0.0041	0.019	0.0077	0.79	0.76	ND

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-14D	HS-MW-14D	HS-MW-14D	HS-MW-14D	HS-MW-14D	HS-MW-14M	HS-MW-14M	HS-MW-14M	HS-MW-14M	HS-MW-14S	HS-MW-14S	HS-MW-14S	HS-MW-14S
Sample Name						HS-MW-14D	HS-MW-14D DUP	HS-GW-MW14D	HS-GW-MW14D	HS-GW-MW-14D	HS-MW-14M	HS-GW-MW14M	HS-GW-MW14M	HS-GW-MW-14M	HS-MW-14S	HS-GW-MW14S	HS-GW-MW14S	HS-GW-MW-14S
Well Screen Interval (Feet below ground surface)						109-114	109-114	109-114	109-114	109-114	68.1-73.1	68.1-73.1	68.1-73.1	68.1-73.1	13-23	13-23	13-23	13-23
Laboratory Sample ID(s)						UB27031-003	UB27031-004	UE18016-008	UI12010-007	UK29008-016	UB27031-001	UE18016-009	UI12010-009	UK29008-015	UB27031-002	UE18016-010	UI12010-008	UK29008-014
Sample Date						02/26/2019	02/26/2019	05/17/2019	09/10/2019	11/25/2019	02/26/2019	05/17/2019	09/10/2019	11/25/2019	02/26/2019	05/17/2019	09/10/2019	11/25/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0075	<0.0073	<0.0074	<0.0074	<0.007	<0.0071	<0.0073	<0.0075	<0.0069	<0.0071	<0.0072	<0.0072	<0.0069
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0075	<0.0073	<0.0074	<0.0074	<0.007	<0.0071	<0.0073	<0.0075	<0.0069	<0.0071	<0.0072	<0.0072	<0.0069
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	0.005	<0.0036	<0.0034
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	0.0065	<0.0036	<0.0034
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	<0.0019	<0.0018	<0.0019	<0.0019	<0.0017	<0.0018	<0.0018	<0.0019	<0.0017	<0.0018	0.0047	0.0023	<0.0017
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	0.0036	<0.0034
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0047	0.0059	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	0.0054	<0.0036	<0.0034
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0036	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0038	<0.0034	<0.0036	<0.0036	<0.0036	<0.0034
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.022	0.0059	ND

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-15D	HS-MW-15D	HS-MW-15D	HS-MW-15D	HS-MW-15M	HS-MW-15M	HS-MW-15M	HS-MW-15M	HS-MW-15S	HS-MW-15S	HS-MW-15S	HS-MW-15S	HS-MW-17D
Sample Name						HS-MW-15D	HS-GW-MW15D	HS-GW-MW15D	HS-GW-MW-15D	HS-MW-15M	HS-GW-MW15M	HS-GW-MW15M	HS-GW-MW-15M	HS-MW-15S	HS-GW-MW15S	HS-GW-MW15S	HS-GW-MW-15S	HS-MW-17D
Well Screen Interval (Feet below ground surface)						108.6-118.6	108.6-118.6	108.6-118.6	108.6-118.6	44.8-49.8	44.8-49.8	44.8-49.8	44.8-49.8	6.9-16.9	6.9-16.9	6.9-16.9	6.9-16.9	222.1-227.1
Laboratory Sample ID(s)						UB28086-006	UE18016-005	UI21016-005	UK19008-012	UB28086-005	UE18016-006	UI21016-004	UK21036-009	UB28086-004	UE18016-007	UI21016-003	UK21036-010	UC09042-006
Sample Date						02/27/2019	05/16/2019	09/19/2019	11/20/2019	02/27/2019	05/16/2019	09/19/2019	11/19/2019	02/27/2019	05/16/2019	09/19/2019	11/19/2019	03/07/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0075	<0.0073	<0.0073	<0.0069	<0.0074	<0.0076	<0.0075	<0.0073	<0.0074	<0.0073	<0.0077	<0.0069	<0.007
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	0.0073	0.0058	0.0068	0.0073	0.43
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	0.022
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0075	<0.0073	<0.0073	<0.0069	<0.0074	<0.0076	<0.0075	<0.0073	<0.0074	<0.0073	<0.0077	<0.0069	<0.007
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	0.56
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	0.004	0.96
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	0.11
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	0.3
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	0.27
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	<0.0019	<0.0018	<0.0018	<0.0017	<0.0018	<0.0019	<0.0019	<0.0018	<0.0018	<0.0018	<0.0019	0.0018	1
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	0.06
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0018	1.1
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	0.12
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0036	<0.0034	<0.0037	<0.0038	<0.0037	<0.0036	<0.0037	<0.0036	<0.0038	<0.0034	<0.0035
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	ND	ND	ND	ND	ND	ND	ND	ND	0.0073	0.0058	0.0068	0.013	3.8

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-17D	HS-MW-17D	HS-MW-17D	HS-MW-17M	HS-MW-17M	HS-MW-17M	HS-MW-17M	HS-MW-17S	HS-MW-17S	HS-MW-17S	HS-MW-17S	HS-MW-18D	HS-MW-18D
Sample Name						HS-GW-MW17D	HS-GW-MW17D	HS-GW-MW-17D	HS-MW-17M	HS-GW-MW17M	HS-GW-MW17M	HS-GW-MW-17M	HS-MW-17S	HS-GW-MW17S	HS-GW-MW17S	HS-GW-MW-17S	HS-MW-18D	HS-GW-MW18D
Well Screen Interval (Feet below ground surface)						222.1-227.1	222.1-227.1	222.1-227.1	167.3-172.3	167.3-172.3	167.3-172.3	167.3-172.3	105.8-110.8	105.8-110.8	105.8-110.8	105.8-110.8	140.6-145.6	140.6-145.6
Laboratory Sample ID(s)						UE25011-001	UI19006-002	UL12091-010	UC09042-005	UE25011-003	UI12010-016	UL12091-012	UC09042-003	UE25011-002	UI12010-014	UL12091-007	UC02020-006	UE24001-004
Sample Date						05/23/2019	09/16/2019	12/10/2019	03/07/2019	05/23/2019	09/11/2019	12/11/2019	03/06/2019	05/23/2019	09/11/2019	12/10/2019	03/01/2019	05/21/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.007900001	<0.0074	<0.0074	<0.0071	<0.0066	<0.0068	<0.0071	<0.0069	<0.0067	<0.0075	<0.0073	<0.0074
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.41	0.47	0.42	0.004	0.0039	0.0036	0.0038	0.014	0.02	0.014	0.018	0.029	0.031
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	0.024	0.028	0.029	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.007900001	<0.0074	<0.0074	<0.0071	<0.0066	<0.0068	<0.0071	<0.0069	<0.0067	<0.0075	<0.0073	<0.0074
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	0.5	0.57	0.49	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	0.015	0.014
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	1	1.1	1	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	0.0074	0.0082
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	0.11	0.12	0.12	<0.0037	<0.0036	<0.0033	<0.0034	0.0041	0.0058	0.0034	0.0042	0.018	0.02
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	0.3	0.33	0.31	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	0.011	0.011
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	0.31	0.27	0.28	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	0.0054	0.022	0.024
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	1.2	1.2	1.1	<0.0019	<0.0018	<0.0017	<0.0017	<0.0018	<0.0017	<0.0017	<0.0019	0.014	0.015
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	0.058	0.072	0.076	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	1.3	1.3	1.2	ND	ND	ND	ND	ND	ND	ND	ND	0.014	0.015
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	0.13	0.13	0.14	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	0.0044	0.0048	0.0073	0.015	0.017
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.004	<0.0037	<0.0037	<0.0036	<0.0033	<0.0034	<0.0035	<0.0035	<0.0033	<0.0038	<0.0037	<0.0037
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	4	4.3	4	0.004	0.0039	0.0036	0.0038	0.018	0.03	0.022	0.035	0.13	0.14

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-18D	HS-MW-18D	HS-MW-18S	HS-MW-18S	HS-MW-18S	HS-MW-18S	HS-MW-19D	HS-MW-19D	HS-MW-19D	HS-MW-19D	HS-MW-19S	HS-MW-19S	HS-MW-19S
Sample Name						HS-GW-MW18D	HS-GW-MW18D	HS-MW-18S	HS-GW-MW18S	HS-GW-MW18S	HS-GW-MW-18S	HS-MW-19D	HS-GW-MW19D	HS-GW-MW19D	HS-GW-MW-19D	HS-MW-19S	HS-GW-MW19S	HS-GW-MW19S
Well Screen Interval (Feet below ground surface)						140.6-145.6	140.6-145.6	12.8-22.8	12.8-22.8	12.8-22.8	12.8-22.8	85.9-95.9	85.9-95.9	85.9-95.9	85.9-95.9	58.4-61.4	58.4-61.4	58.4-61.4
Laboratory Sample ID(s)						UI12010-006	UK19008-015	UC02020-007	UE24001-005	UI12010-010	UK21036-020	UC02020-005	UE24001-007	UI26001-003	UL12091-019	UC02020-004	UE24001-006	UI26001-002
Sample Date						09/10/2019	11/20/2019	03/01/2019	05/21/2019	09/10/2019	11/21/2019	02/28/2019	05/21/2019	09/23/2019	12/12/2019	02/28/2019	05/21/2019	09/23/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0068	<0.0075	<0.0074	<0.0073	<0.0068	<0.007	<0.007	<0.007	<0.0069	<0.0072	<0.0081	<0.0069	<0.0077
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.025	0.029	0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0068	<0.0075	<0.0074	<0.0073	<0.0068	<0.007	<0.007	<0.007	<0.0069	<0.0072	<0.0081	<0.0069	<0.0077
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	0.012	0.014	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	0.0062	0.0072	<0.0037	<0.0036	<0.0034	0.0043	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	0.018	0.02	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	0.01	0.011	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	0.021	0.022	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	0.015	0.015	<0.0019	<0.0018	<0.0017	<0.0017	<0.0018	<0.0018	<0.0017	<0.0018	<0.002	<0.0017	<0.0019
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.015	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	0.016	0.016	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0035	<0.0035	<0.0034	<0.0036	<0.004	<0.0034	<0.0038
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.12	0.13	0.0037	ND	ND	0.0043	ND	ND	ND	ND	ND	ND	ND

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-19S	HS-MW-20D	HS-MW-20D	HS-MW-20D	HS-MW-20D	HS-MW-20M	HS-MW-20M	HS-MW-20M	HS-MW-20M	HS-MW-20M	HS-MW-20S	HS-MW-20S	HS-MW-20S
Sample Name						HS-GW-MW-19S	HS-MW-20D	HS-GW-MW20D	HS-GW-MW20D	HS-GW-MW-20D	HS-MW-20M	HS-GW-MW20M	HS-GW-MW20M	HS-GW-MW20M DUP	HS-GW-MW-20M	MW-20S	HS-GW-MW20S	HS-GW-MW20S
Well Screen Interval (Feet below ground surface)						58.4-61.4	126.1-131.1	126.1-131.1	126.1-131.1	126.1-131.1	101.5-106.5	101.5-106.5	101.5-106.5	101.5-106.5	101.5-106.5	61.1-66.1	61.1-66.1	61.1-66.1
Laboratory Sample ID(s)						UL12091-016	UC09042-002	UE30036-003	UI19006-022	UK29008-019	UC09042-001	UE30036-002	UI19006-020	UI19006-021	UK29008-002	UC06036-001	UE30036-001	UI19006-019
Sample Date						12/11/2019	03/06/2019	05/28/2019	09/18/2019	11/27/2019	03/06/2019	05/28/2019	09/18/2019	09/18/2019	11/26/2019	03/04/2019	05/28/2019	09/18/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0072	<0.0071	<0.0073	<0.007	<0.0069	<0.0074	<0.0069	<0.0069	<0.007	<0.0071	<0.0071	<0.0074	<0.0071
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	<0.0036	0.16	0.17	0.17	0.15	0.071	0.068	0.069	0.07	0.06	0.015	0.016	0.018
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	0.0095	0.0088	0.008	0.0084	0.0077	<0.0036	<0.0037	<0.0035
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0072	<0.0071	<0.0073	<0.007	<0.0069	<0.0074	<0.0069	<0.0069	<0.007	<0.0071	<0.0071	<0.0074	<0.0071
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.097	0.098	0.11	0.098	0.083	0.079	0.08	0.085	0.062	0.013	0.013	0.016
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.042	0.042	0.046	0.043	0.16	0.16	0.15	0.14	0.13	0.014	0.017	0.019
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.047	0.052	0.05	0.049	0.015	0.015	0.015	0.014	0.014	0.0042	0.0043	0.0047
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.07	0.078	0.077	0.076	0.043	0.042	0.039	0.045	0.038	0.0056	0.0082	0.0094
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.088	0.1	0.1	0.1	0.038	0.038	0.036	0.034	0.034	0.0068	0.0085	0.0093
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	<0.0018	0.09	0.12	0.12	0.11	0.16	0.17	0.17	0.17	0.15	0.016	0.022	0.022
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	0.04	0.034	0.033	0.032	0.029	<0.0036	<0.0037	<0.0035
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	ND	0.09	0.12	0.12	0.11	0.2	0.2	0.2	0.2	0.18	0.016	0.022	0.022
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.045	0.054	0.052	0.049	0.017	0.017	0.015	0.016	0.014	<0.0036	0.0039	0.0045
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0036	<0.0035	<0.0035	<0.0037	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	ND	0.64	0.71	0.73	0.68	0.64	0.63	0.62	0.61	0.54	0.075	0.093	0.1

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-20S	HS-MW-21D	HS-MW-21D	HS-MW-21D	HS-MW-21D	HS-MW-21D	HS-MW-21D	HS-MW-21M	HS-MW-21M	HS-MW-21M	HS-MW-21M	HS-MW-21S	HS-MW-21S
Sample Name						HS-GW-MW-20S	HS-MW-21D	HS-GW-MW21D	HS-GW-MW21D DUP	HS-GW-MW21D	HS-GW-MW-21D	HS-GW-MW-21D DUP	HS-MW-21M	HS-GW-MW21M	HS-GW-MW21M	HS-GW-MW-21M	HS-MW-21S	HS-GW-MW21S
Well Screen Interval (Feet below ground surface)						61.1-66.1	76.2-86.2	76.2-86.2	76.2-86.2	76.2-86.2	76.2-86.2	76.2-86.2	59-64	59-64	59-64	59-64	9.8-19.8	9.8-19.8
Laboratory Sample ID(s)						UK29008-001	UB28086-003	UE18016-001	UE18016-002	UI19006-003	UL12091-001	UL12091-002	UB28086-002	UE18016-003	UI19006-004	UK29008-020	UB28086-001	UE18016-004
Sample Date						11/26/2019	02/27/2019	05/16/2019	05/16/2019	09/16/2019	12/09/2019	12/09/2019	02/27/2019	05/16/2019	09/16/2019	11/27/2019	02/27/2019	05/16/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	0.0058	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.0072	<0.0073	<0.0073	<0.0072	<0.0072	<0.0071	<0.0075	<0.0073	<0.0071	<0.0074	<0.0073	<0.0074
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.018	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.007	<0.0072	<0.0073	<0.0073	<0.0072	<0.0072	<0.0071	<0.0075	<0.0073	<0.0071	<0.0074	<0.0073	<0.0074
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	0.012	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	0.013	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	0.0067	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	0.0092	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	0.013	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	0.023	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0019	<0.0018	<0.0018	<0.0019	0.0028	0.0026
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0028	0.0026
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	0.0064	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0035	<0.0037	<0.0036	<0.0036	<0.0037	<0.0037	<0.0037
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.1	ND	ND	ND	0.0058	ND	ND	ND	ND	ND	ND	0.0028	0.0026

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-21S	HS-MW-21S	HS-MW-23A	HS-MW-23A	HS-MW-23B	HS-MW-23B	HS-MW-23C	HS-MW-23C	HS-MW-23D	HS-MW-23D	HS-MW-24A	HS-MW-24B	HS-MW-25D
Sample Name						HS-GW-MW21S	HS-GW-MW-21S	HS-GW-MW23A	HS-GW-MW-23A	HS-GW-MW23B	HS-GW-MW-23B	HS-GW-MW23C	HS-GW-MW-23C	HS-GW-MW23D	HS-GW-MW-23D	HS-GW-MW-24A	HS-GW-MW-24B	HS-MW-25D
Well Screen Interval (Feet below ground surface)						9.8-19.8	9.8-19.8	72.1-77.1	72.1-77.1	137.9-142.8	137.9-142.8	210.2-215	210.2-215	238.9-243.9	238.9-243.9	55.6-60.4	225.2-230	65.7-70.7
Laboratory Sample ID(s)						UI19006-006	UK29008-022	UI21016-007	UL05055-032	UI21016-009	UL05055-033	UI26001-001	UL05055-034	UI21016-008	UL12091-008	UL12091-009	UL12091-015	UC02020-009
Sample Date						09/16/2019	11/27/2019	09/20/2019	12/06/2019	09/20/2019	12/06/2019	09/23/2019	12/06/2019	09/20/2019	12/10/2019	12/10/2019	12/11/2019	03/01/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0074	<0.007	<0.0072	<0.0071	<0.0068	<0.007	<0.007	<0.0071	<0.0069	<0.0072	<0.007	<0.0074	<0.0072
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	<0.0037	0.0036	0.02	0.018	0.015	0.014	0.26	0.28	0.23	0.14	<0.0035	<0.0037	0.016
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0074	<0.007	<0.0072	<0.0071	<0.0068	<0.007	<0.007	<0.0071	<0.0069	<0.0072	<0.007	<0.0074	<0.0072
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	0.011	0.0094	0.0081	0.0071	0.22	0.23	0.15	0.076	<0.0035	<0.0037	<0.0036
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	0.02	0.019	0.019	0.015	0.091	0.09	0.016	0.011	<0.0035	<0.0037	0.008
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	0.064	0.067	0.067	0.043	<0.0035	<0.0037	0.0054
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	0.05	0.057	0.037	0.02	<0.0035	<0.0037	0.0056
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	0.0047	<0.0035	0.0061	0.0044	0.22	0.26	0.24	0.16	<0.0035	<0.0037	0.011
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	0.0034	0.0031	0.013	0.012	0.0075	0.0082	0.03	0.03	0.013	0.0056	<0.0017	<0.0018	0.016
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0037	<0.0035	0.0042	0.015	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	0.072
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.0034	0.0031	0.017	0.027	0.0075	0.0082	0.03	0.03	0.013	0.0056	ND	ND	0.088
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	0.1	0.11	0.13	0.08	<0.0035	<0.0037	0.0091
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0035	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0036	<0.0035	<0.0037	<0.0036
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.0034	0.0067	0.073	0.073	0.056	0.049	1	1.1	0.88	0.54	ND	ND	0.14

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-25D	HS-MW-25D	HS-MW-25D	HS-MW-25S	HS-MW-25S	HS-MW-25S	HS-MW-25S	HS-MW-26D	HS-MW-26D	HS-MW-26D	HS-MW-26D	HS-MW-26M	HS-MW-26M
Sample Name						HS-GW-MW25D	HS-GW-MW25D	HS-GW-MW-25D	HS-MW-25S	HS-GW-MW25S	HS-GW-MW25S	HS-GW-MW-25S	HS-MW-26D	HS-GW-MW26D	HS-GW-MW26D	HS-GW-MW-26D	HS-MW-26M	HS-GW-MW26M
Well Screen Interval (Feet below ground surface)						65.7-70.7	65.7-70.7	65.7-70.7	51.1-56.1	51.1-56.1	51.1-56.1	51.1-56.1	79.6-84.6	79.6-84.6	79.6-84.6	79.6-84.6	61.7-66.7	61.7-66.7
Laboratory Sample ID(s)						UE15023-008	UI19006-009	UL05055-004	UC02020-008	UE15023-007	UI19006-012	UL05055-002	UC02020-003	UE15023-009	UI12010-013	UK21036-008	UC02020-002	UE15023-011
Sample Date						05/14/2019	09/17/2019	12/02/2019	03/01/2019	05/14/2019	09/17/2019	12/02/2019	02/28/2019	05/15/2019	09/11/2019	11/19/2019	02/28/2019	05/15/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0074	<0.0073	<0.0077	<0.0073	<0.0072	<0.0076	<0.0074	<0.0074	<0.0071	<0.0077	<0.007	<0.0076	<0.0074
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.012	0.011	0.018	0.017	0.01	0.0082	0.012	<0.0037	<0.0036	<0.0038	<0.0035	0.0044	0.0046
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0074	<0.0073	<0.0077	<0.0073	<0.0072	<0.0076	<0.0074	<0.0074	<0.0071	<0.0077	<0.007	<0.0076	<0.0074
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	0.0069	0.007	0.0082	0.0083	0.0045	0.0045	0.0057	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	0.0047	0.0045	0.0054	0.0046	<0.0036	<0.0038	0.0039	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	0.0045	<0.0037	0.005	0.004	<0.0036	<0.0038	0.0049	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	0.01	0.0076	0.012	0.0089	0.0056	0.0068	0.0092	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	0.014	0.01	0.015	0.012	0.0091	0.011	0.014	0.0022	<0.0018	<0.0019	<0.0017	0.006	0.0055
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	0.051	0.039	0.042	0.11	0.071	0.057	0.061	<0.0037	<0.0036	<0.0038	<0.0035	0.014	0.011
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.065	0.049	0.057	0.12	0.08	0.068	0.075	0.0022	ND	ND	ND	0.02	0.017
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	0.0086	0.0061	0.0087	0.007	0.0043	0.0047	0.0067	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0038	<0.0037	<0.0036	<0.0038	<0.0037	<0.0037	<0.0036	<0.0038	<0.0035	<0.0038	<0.0037
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.11	0.085	0.11	0.17	0.1	0.092	0.12	0.0022	ND	ND	ND	0.024	0.021

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-26M	HS-MW-26M	HS-MW-26S	HS-MW-26S	HS-MW-26S	HS-MW-26S	HS-MW-26S	HS-MW-26S	HS-MW-27A	HS-MW-27B	HS-MW-27B	HS-MW-27C	HS-MW-27C	HS-MW-27D
Sample Name						HS-GW-MW26M	HS-GW-MW-26M	HS-MW-26S	HS-GW-MW26S	HS-GW-MW26S	HS-GW-MW26S DUP	HS-GW-MW-26S	HS-GW-MW-27A	HS-GW-MW27B	HS-GW-MW-27B	HS-GW-MW27C	HS-GW-MW-27C	HS-GW-MW27D	
Well Screen Interval (Feet below ground surface)						61.7-66.7	61.7-66.7	25.8-30.8	25.8-30.8	25.8-30.8	25.8-30.8	25.8-30.8	21.6-26.2	35.4-38	35.4-38	41.3-45.9	41.3-45.9	52.4-56.4	
Laboratory Sample ID(s)						UI12010-017	UK21036-005	UC02020-001	UE15023-010	UI12010-015	UI12010-018	UK21036-001	UK19008-001	UI12010-002	UK19008-003	UI12010-001	UK19008-002	UI12010-003	
Sample Date						09/11/2019	11/19/2019	02/28/2019	05/15/2019	09/11/2019	09/11/2019	11/19/2019	11/18/2019	09/09/2019	11/18/2019	09/09/2019	11/18/2019	09/09/2019	
Parameter (µg/L)																			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0071	<0.0073	<0.0073	<0.0073	<0.0076	<0.0073	<0.0073	<0.0077	<0.0068	<0.0075	<0.0072	<0.0075	<0.0068	
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.0049	0.0053	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	0.004	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0071	<0.0073	<0.0073	<0.0073	<0.0076	<0.0073	<0.0073	<0.0077	<0.0068	<0.0075	<0.0072	<0.0075	<0.0068	
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	0.0056	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	0.0067	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	0.0069	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	0.0054	0.0052	<0.0018	<0.0018	<0.0019	<0.0018	<0.0018	0.0051	<0.0017	<0.0019	<0.0018	<0.0019	<0.0017	
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	0.016	0.017	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.021	0.022	ND	ND	ND	ND	ND	0.0051	ND	ND	ND	ND	ND	
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0037	<0.0036	<0.0036	<0.0038	<0.0037	<0.0037	<0.0038	<0.0034	<0.0037	<0.0036	<0.0038	<0.0034	
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.026	0.028	ND	ND	ND	ND	ND	0.028	ND	ND	ND	ND	ND	

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-27D	HS-MW-27E	HS-MW-27E	HS-MW-28A	HS-MW-28A	HS-MW-28B	HS-MW-28B	HS-MW-28C	HS-MW-28C	HS-MW-28D	HS-MW-28D	HS-MW-28D	HS-MW-28E
Sample Name						HS-GW-MW-27D	HS-GW-MW27E	HS-GW-MW-27E	HS-GW-MW28A	HS-GW-MW-28A	HS-GW-MW28B	HS-GW-MW-28B	HS-GW-MW28C	HS-GW-MW-28C	HS-GW-MW28D	HS-GW-MW-28D	HS-GW-MW-28D DUP	HS-GW-MW28E
Well Screen Interval (Feet below ground surface)						52.4-56.4	58.5-62.5	58.5-62.5	39.1-43.7	39.1-43.7	43.3-47.9	43.3-47.9	49.2-53.8	49.2-53.8	62.2-66.8	62.2-66.8	62.2-66.8	82.7-87.3
Laboratory Sample ID(s)						UK21036-002	UI12010-004	UK19008-004	UI19006-013	UK21036-018	UI19006-005	UK21036-019	UI19006-001	UK21036-016	UI19006-010	UK21036-014	UK21036-015	UI19006-011
Sample Date						11/19/2019	09/09/2019	11/18/2019	09/17/2019	11/21/2019	09/16/2019	11/21/2019	09/16/2019	11/21/2019	09/17/2019	11/21/2019	11/21/2019	09/17/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	0.011	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0076	<0.0073	<0.0074	<0.0072	<0.0072	<0.0074	<0.0075	<0.0076	<0.0071	<0.007	<0.0072	<0.0074	<0.007
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	<0.0038	<0.0036	<0.0037	0.0063	0.0047	0.0083	0.0092	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0076	<0.0073	<0.0074	<0.0072	<0.0072	<0.0074	<0.0075	<0.0076	<0.0071	<0.007	<0.0072	<0.0074	<0.007
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0038	0.01	0.0074	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0038	0.0037	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	<0.0019	0.0031	0.0025	<0.0018	<0.0018	0.0023	<0.0019	<0.0019	<0.0018	<0.0017	<0.0018	<0.0018	<0.0018
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	ND	0.0031	0.0025	ND	ND	0.0023	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0038	<0.0036	<0.0037	<0.0036	<0.0036	<0.0037	<0.0038	<0.0038	<0.0035	<0.0035	<0.0036	<0.0037	<0.0035
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	ND	0.017	0.0099	0.0063	0.0047	0.011	0.0092	0.011	ND	ND	ND	ND	ND

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-28E	HS-MW-29A	HS-MW-29B	HS-MW-29C	HS-MW-29D	HS-MW-30A	HS-MW-30A	HS-MW-30A	HS-MW-30A	HS-MW-30B	HS-MW-30B	HS-MW-30B	HS-MW-30C
Sample Name						HS-GW-MW-28E	HS-GW-MW-29A	HS-GW-MW-29B	HS-GW-MW-29C	HS-GW-MW-29D	HS-GW-MW30A	HS-GW-MW30A	HS-GW-MW-30A	HS-GW-MW-30A DUP	HS-GW-MW30B	HS-GW-MW30B	HS-GW-MW-30B	HS-GW-MW30C
Well Screen Interval (Feet below ground surface)						82.7-87.3	3.5-13.5	16.8-21.8	27.2-32.2	37.1-42.1	46.9-51.5	46.9-51.5	46.9-51.5	46.9-51.5	51.5-56.1	51.5-56.1	51.5-56.1	77.4-82
Laboratory Sample ID(s)						UK21036-017	UK19008-006	UK21036-003	UK21036-004	UK19008-005	UG03026-005	UI19006-014	UK19008-010	UK19008-011	UG03026-007	UI21016-001	UK19008-014	UG06001-001
Sample Date						11/21/2019	11/18/2019	11/19/2019	11/19/2019	11/18/2019	07/02/2019	09/17/2019	11/20/2019	11/20/2019	07/02/2019	09/19/2019	11/20/2019	07/03/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0072	<0.007	<0.0069	<0.007	<0.007	<0.0071	<0.0069	<0.0071	<0.0084	<0.0072	<0.0075	<0.007	<0.0074
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	<0.0036	0.018	0.024	0.011	0.0035	0.0061	0.0068	0.0072	0.0069	0.0071	0.0074	0.0073	0.0057
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.01	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0072	<0.007	<0.0069	<0.007	<0.007	<0.0071	<0.0069	<0.0071	<0.0084	<0.0072	<0.0075	<0.007	<0.0074
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.0056	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.025	<0.0034	<0.0035	<0.0035	0.0038	<0.0035	<0.0035	<0.0042	0.0038	<0.0038	0.0038	<0.0037
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.01	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.0064	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.017	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	<0.0018	0.036	<0.0017	<0.0018	<0.0018	0.0033	0.0025	0.003	0.0027	0.0064	0.0035	0.0041	<0.0018
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0036	0.32	0.004	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	ND	0.36	0.004	ND	ND	0.0033	0.0025	0.003	0.0027	0.0064	0.0035	0.0041	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0036	0.01	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0036	<0.0035	<0.0034	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0042	<0.0036	<0.0038	<0.0035	<0.0037
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	ND	0.46	0.028	0.011	0.0035	0.013	0.0093	0.01	0.0096	0.017	0.011	0.015	0.0057

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-30C	HS-MW-30C	HS-MW-30D	HS-MW-30D	HS-MW-30D	HS-MW-30E	HS-MW-30E	HS-MW-30E	HS-MW-31A	HS-MW-31A	HS-MW-31A	HS-MW-31B	HS-MW-31B
Sample Name						HS-GW-MW30C	HS-GW-MW-30C	HS-GW-MW30D	HS-GW-MW30D	HS-GW-MW-30D	HS-GW-MW30E	HS-GW-MW30E	HS-GW-MW-30E	HS-GW-MW31A	HS-GW-MW31A	HS-GW-MW-31A	HS-GW-MW31B	HS-GW-MW31B
Well Screen Interval (Feet below ground surface)						77.4-82	77.4-82	112.7-117.3	112.7-117.3	112.7-117.3	123.2-127.7	123.2-127.7	123.2-127.7	17.1-21.6	17.1-21.6	17.1-21.6	26-30.5	26-30.5
Laboratory Sample ID(s)						UI19006-015	UK21036-026	UG03026-008	UI21016-002	UK21036-024	UG03026-006	UI19006-016	UK21036-025	UG03026-003	UI13033-001	UK21036-006	UG03026-001	UI13033-004
Sample Date						09/17/2019	11/22/2019	07/02/2019	09/19/2019	11/22/2019	07/02/2019	09/17/2019	11/22/2019	07/01/2019	09/12/2019	11/19/2019	07/01/2019	09/12/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	0.0047	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0069	<0.0069	<0.0071	<0.007	<0.0071	<0.0074	<0.0069	<0.0077	<0.007	<0.007	<0.0073	<0.0073	<0.0075
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.0055	0.0055	0.0048	0.0053	0.0056	0.0055	0.0063	0.0059	0.011	0.0055	0.0068	0.014	0.012
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0069	<0.0069	<0.0071	<0.007	<0.0071	<0.0074	<0.0069	<0.0077	<0.007	<0.007	<0.0073	<0.0073	<0.0075
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	0.0041	0.0049
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	0.0071	0.0075	0.0053	0.011	0.011
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	0.006	0.0042
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	0.0038	<0.0037
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	0.0043	0.0056	0.0082
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	<0.0017	<0.0017	<0.0018	<0.0018	<0.0018	<0.0018	<0.0017	<0.0019	0.0035	0.0038	0.0032	0.022	0.012
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	0.0059	0.005
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	ND	ND	ND	ND	ND	ND	ND	ND	0.0035	0.0038	0.0032	0.028	0.017
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	0.0051	0.0059
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
Perfluorotridecanoic acid (PFTTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0035	<0.0034	<0.0036	<0.0035	<0.0036	<0.0037	<0.0034	<0.0038	<0.0035	<0.0035	<0.0036	<0.0036	<0.0037
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.0055	0.0055	0.0048	0.0053	0.0056	0.0055	0.011	0.0059	0.022	0.017	0.02	0.078	0.063

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-31B	HS-MW-31C	HS-MW-31C	HS-MW-31C	HS-MW-31D	HS-MW-31D	HS-MW-31D	HS-MW-31E	HS-MW-31E	HS-MW-31E	HS-MW-31E	HS-MW-32A	HS-MW-32A
Sample Name						HS-GW-MW-31B	HS-GW-MW31C	HS-GW-MW31C	HS-GW-MW-31C	HS-GW-MW31D	HS-GW-MW31D	HS-GW-MW-31D	HS-GW-MW31E	HS-GW-MW31E DUP	HS-GW-MW31E	HS-GW-MW-31E	HS-GW-MW32A	HS-GW-MW32A
Well Screen Interval (Feet below ground surface)						26-30.5	41.3-45.8	41.3-45.8	41.3-45.8	48.8-53.4	48.8-53.4	48.8-53.4	64.1-68.7	64.1-68.7	64.1-68.7	64.1-68.7	60.9-65.5	60.9-65.5
Laboratory Sample ID(s)						UK19008-013	UG03026-004	UI13033-003	UK21036-007	UG03026-002	UI13033-002	UK21036-027	UG06001-002	UG06001-003	UI13033-005	UK19008-009	UE25011-005	UI07020-001
Sample Date						11/20/2019	07/01/2019	09/12/2019	11/19/2019	07/01/2019	09/12/2019	11/22/2019	07/03/2019	07/03/2019	09/12/2019	11/20/2019	05/24/2019	09/06/2019
Parameter (µg/L)																		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0073	<0.0075	<0.007	<0.0073	<0.0072	<0.0069	<0.0075	<0.0075	<0.0072	<0.0068	<0.007	<0.0073	<0.0074
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	0.012	0.018	0.016	0.015	0.012	0.011	0.0076	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0073	<0.0075	<0.007	<0.0073	<0.0072	<0.0069	<0.0075	<0.0075	<0.0072	<0.0068	<0.007	<0.0073	<0.0074
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	0.0043	0.005	0.0052	0.0048	<0.0036	0.0035	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	0.013	0.011	0.0095	0.01	0.0082	0.0069	0.0053	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	0.0072	0.0051	0.0048	0.0047	0.0042	0.0035	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	0.018	<0.0037	<0.0035	<0.0036	0.0037	0.0038	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	0.017	0.006	0.0063	0.0073	0.0074	0.0064	0.0041	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorooctanoic acid (PFOA)	0.07 (IJ)	12	ID	NCL	NCL	0.052	0.01	0.0086	0.0079	0.0073	0.0075	0.0074	<0.0019	<0.0018	<0.0017	<0.0018	<0.0018	<0.0019
Perfluorooctane sulfonic acid (PFOS)	0.07 (IJ)	0.012	NLV	NCL	NCL	0.014	0.0077	0.0059	0.0052	0.0044	0.0053	0.007	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	0.066	0.018	0.015	0.013	0.012	0.013	0.014	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	0.014	0.004	0.0045	0.0057	0.006	0.0048	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0037	<0.0037	<0.0035	<0.0036	<0.0036	<0.0034	<0.0037	<0.0037	<0.0036	<0.0034	<0.0035	<0.0036	<0.0037
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	0.15	0.067	0.061	0.061	0.053	0.053	0.031	ND	ND	ND	ND	ND	ND

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS (HSDS, 2019)
Area 6
Plainfield Township, Kent County, MI

Sample Location	Part 201 Generic Residential Groundwater Cleanup Criteria – Drinking Water ²	Part 201 Generic Groundwater Cleanup Criteria – Groundwater Surface Water Interface ²	Part 201 Generic Residential Groundwater Cleanup Criteria – Groundwater Volatilization to Indoor Air Inhalation ²	EGLE Residential Recommended Volatilization to Indoor Air Interim Action Screening Level - Groundwater ³	U.S. EPA Residential Tap Water Regional Removal Management Levels ⁴	HS-MW-32A	HS-MW-32B	HS-MW-32B	HS-MW-32B	HS-MW-32C	HS-MW-32C	HS-MW-32C	HS-MW-32C	HS-MW-32D	HS-MW-32D	HS-MW-32D
Sample Name						HS-GW-MW-32A	HS-GW-MW32B	HS-GW-MW32B	HS-GW-MW-32B	HS-GW-MW32C	HS-GW-MW32C	HS-GW-MW-32C	HS-GW-MW32D	HS-GW-MW32D	HS-GW-MW-32D	HS-GW-MW-32D
Well Screen Interval (Feet below ground surface)						60.9-65.5	79.1-83.7	79.1-83.7	79.1-83.7	108.8-113.4	108.8-113.4	108.8-113.4	142.3-146.9	142.3-146.9	142.3-146.9	142.3-146.9
Laboratory Sample ID(s)						UK29008-003	UE25011-006	UI07020-003	UK29008-004	UE25011-007	UI07020-002	UK29008-005	UE25011-008	UI07020-004	UK29008-006	UK29008-006
Sample Date						11/26/2019	05/24/2019	09/06/2019	11/26/2019	05/24/2019	09/06/2019	11/26/2019	05/24/2019	09/06/2019	11/26/2019	11/26/2019
Parameter (µg/L)																
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NCL	NCL	NCL	NCL	NCL	<0.0068	<0.0074	<0.0069	<0.0069	<0.0076	<0.0071	<0.0074	<0.0074	<0.0069	<0.0071	<0.0071
Perfluorobutane sulfonic acid (PFBS)	NCL	NCL	NCL	NCL	1,200	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorodecane sulfonic acid (PFDS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluoroheptane sulfonic acid (PFHpS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorononane sulfonic acid (PFNS)	NCL	NCL	NCL	NCL	NCL	<0.0068	<0.0074	<0.0069	<0.0069	<0.0076	<0.0071	<0.0074	<0.0074	<0.0069	<0.0071	<0.0071
Perfluorooctane sulfonamide (FOSA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluoropentane sulfonic acid (PFPeS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorohexane sulfonic acid (PFHxS)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorobutanoic acid (PFBA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	0.0044	<0.0035	<0.0035
Perfluorodecanoic acid (PFDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorododecanoic acid (PFDoDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluoroheptanoic acid (PFHpA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorohexanoic acid (PFHxA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorononanoic acid (PFNA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorooctanoic acid (PFOA)	0.07 (JJ)	12	ID	NCL	NCL	<0.0017	<0.0018	<0.0017	<0.0017	<0.0019	<0.0018	<0.0019	<0.0018	<0.0017	<0.0018	<0.0018
Perfluorooctane sulfonic acid (PFOS)	0.07 (JJ)	0.012	NLV	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
PFOA + PFOS (Calculated)	0.07	NCL	NCL	NCL	NCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorotetradecanoic acid (PFTeDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluorotridecanoic acid (PFTrDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Perfluoroundecanoic acid (PFUnDA)	NCL	NCL	NCL	NCL	NCL	<0.0034	<0.0037	<0.0035	<0.0035	<0.0038	<0.0036	<0.0037	<0.0037	<0.0035	<0.0035	<0.0035
Total PFAS (Calculated)	NCL	NCL	NCL	NCL	NCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0044	ND

TABLE 6 NOTES
Area 6
Plainfield Township, Kent County, MI

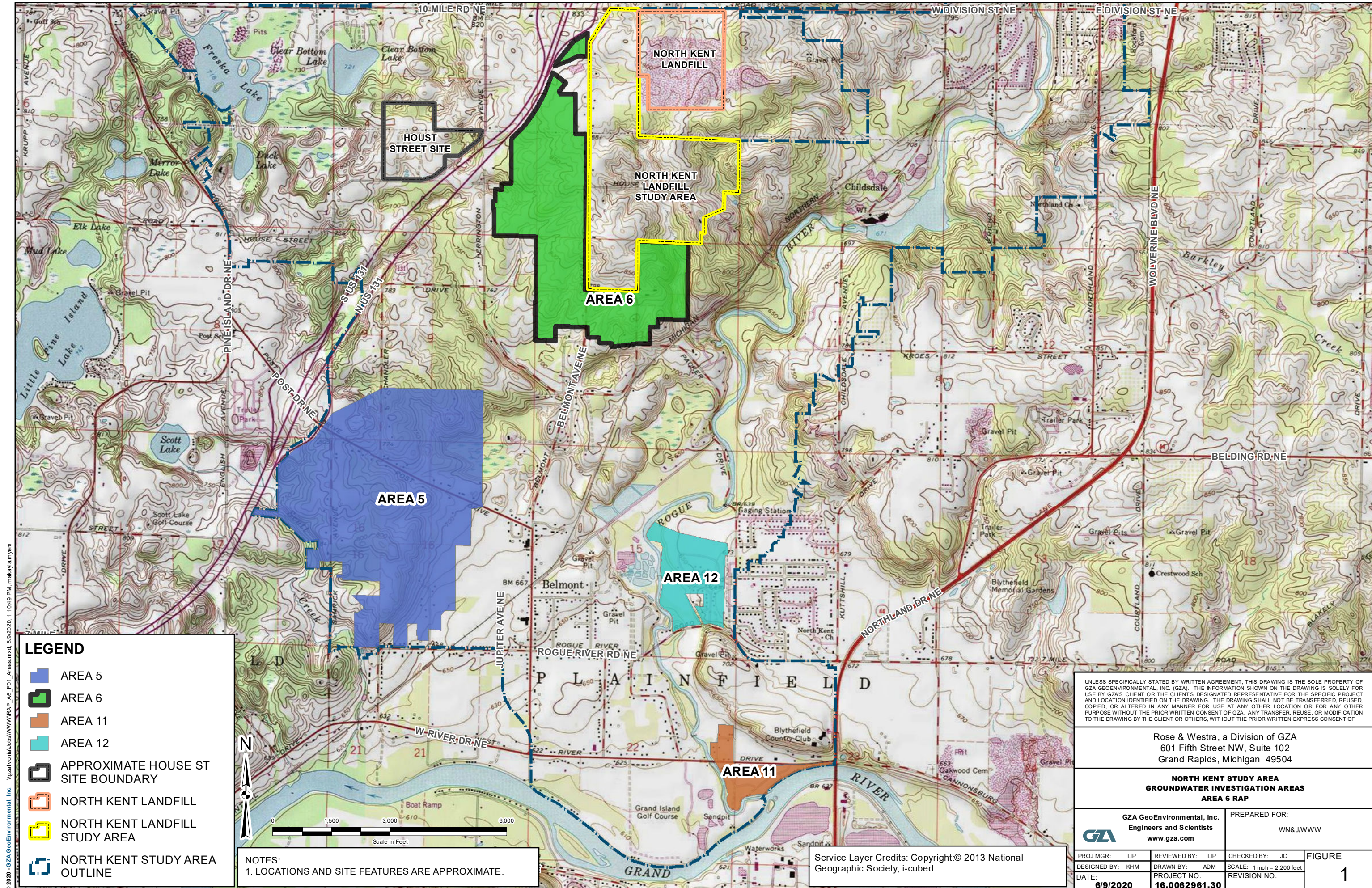
16.0062961.30
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NOTES:

1. Concentration and criteria units are micrograms per Liter (µg/L) or parts per billion (ppb). Calculated criteria and concentrations are rounded to two significant digits. "ND" indicates the parameters used in the calculation were not detected.
"NC" indicates not calculated.
2. Michigan Part 201 Groundwater Cleanup Criteria are based on "Table 1, Groundwater: Residential and Nonresidential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Tier I Risk Based Screening Levels," Michigan Administrative Code, Cleanup Criteria Requirements for Response Activity, Rules 299.44 and 299.49, effective December 30, 2013; updated June 25, 2018.
Abbreviations Include:
"ID" indicates insufficient data to develop criterion.
"NA" indicates a criterion or value is not available or, in the case of background, not applicable.
"NCL" indicates no criterion listed in EGLE Table 1.
"NLV" indicates the substance is not likely to volatilize under most conditions.
Footnotes Include:
(A) - The criterion is the State of Michigan drinking water standard.
(D) - The calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 ppb.
(E) - Criterion is the aesthetic drinking water value.
(F) - Criterion is based on adverse impacts to plant life and phytotoxicity.
(G) - Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water.
EGLE's Footnote (G) GSI/GSIPC Calculation spreadsheet was utilized to calculate GSI criterion presented. The Rogue River is the receiving surface water for the Site. Hardness (220 mg CaCO₃/L) and pH (7.5 standard units) used in the calculations were the lowest (most-conservative) of the calculated mean and median of the Rogue River surface water samples collected in Rockford, MI at the former tannery (TA-SW-01, TA-SW-02, TA-SW-03, TA-SW-05, and TA-SW-07) rounded to two significant digits and water hardness or pH for the Rogue River near Rockford published in United States Geological Survey Circular 323, "Water Resources of the Grand Rapids Area, Michigan," Table 1, 1954.
(L) - Criteria for lead are derived using a biologically based model. The generic residential drinking water criterion of 4µg/L is linked to the generic residential soil direct contact criterion of 400 mg/kg.
(M) - Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
(N) - The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 µg/L.
(P) - Amenable cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with all groundwater criteria.
(S) - Criterion defaults to the hazardous substance-specific water solubility limit.
(V) - Criterion is the aesthetic drinking water value.
(W) - Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80µg/L.
(AA) - Use 10,000 µg/L where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000µg/L for all other uses.
(CC) - The generic GSI criteria are based on the toxicity of unionized ammonia (NH₃); the criteria are 29 µg/L and 53 µg/L for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH₃ in the surface water. This percent NH₃ is a function of the pH and temperature of the receiving surface water and was estimated using the table of this footnote titled "Percent NH₃ in Aqueous Ammonia Solutions for 0-30°C and pH 6-10." This approach uses a default temperature of 68°F and 85°F for cold water and warm water surface water, respectively. The percent conversion factor in the table for cold water (20°C or 68°F) and pH (8.0 standard units) is 3.82%.
(EE) - The applicable GSI criteria for phosphorus is 1,000 µg/L.
(FF) - The chloride GSI criteria shall not apply for surface waters of the state that are not designated as a public water supply source.
(JJ) - Compliance with the drinking water criteria shall require comparing the sum of the PFOA and PFOS groundwater concentrations to the drinking water criterion of 0.07 µg/L.
3. EGLE Residential Groundwater Recommended Volatilization to Indoor Air Interim Action Screening Levels (RIASLs) for were based on EGLE's Toxics Steering Group's "Media-Specific Interim Action Screening Levels," published in August 2017. The EGLE published the RIASLs in August 2017, and recently removed the RIASLs from the EGLE website. The EGLE is reportedly evaluating the RIASLs for appropriate use and applicability. These are included for reference.
Abbreviations Include:
"NCL" indicates no value listed in the Media-Specific Interim Action Screening Levels table.
Footnotes Include:
(M) - Site-specific criterion may be below target detection limits (TDL).
4. U.S. EPA Residential Tap Water Regional Removal Management Levels (RMLs) were based on "Generic RML Tables," updated November 2018.
5. Bold, italic number with thick line border or italic parameter name indicates that parameter was detected above the Michigan Part 201 Groundwater Cleanup Criteria or Media-Specific Interim Action Screening Levels. U.S. EPA RMLs are provided for reference only and results detected above the EPA RMLs are not bolded or italicized.
6. Abbreviations include:
"< RL" indicates the parameter was analyzed for but not detected above the method detection limit; RL = Reporting Limit.
"DUP" indicates a duplicate sample.
"B" indicates the parameter was also detected in the method blank.
"H" indicates the sample was analyzed out of holding time.
"J" indicates the parameter was detected at a concentration greater than the limit of quantitation (LOQ) but less than the detection limit (DL) and the result is estimated.
7. Sample names presented are from Shealy Environmental Services, Inc. laboratory reports. Sample names presented in ALS Environmental lab reports may have minor differences based on laboratory interpretation of the chains of custody.
8. Well screen interval presented is the top of the well screen to the bottom of the well screen in feet below ground surface.



FIGURES



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LEGEND

AREA 5

AREA 6

AREA 11

AREA 12

APPROXIMATE HOUSE ST SITE BOUNDARY

NORTH KENT LANDFILL

NORTH KENT LANDFILL STUDY AREA

NORTH KENT STUDY AREA OUTLINE

NOTES:
1. LOCATIONS AND SITE FEATURES ARE APPROXIMATE.

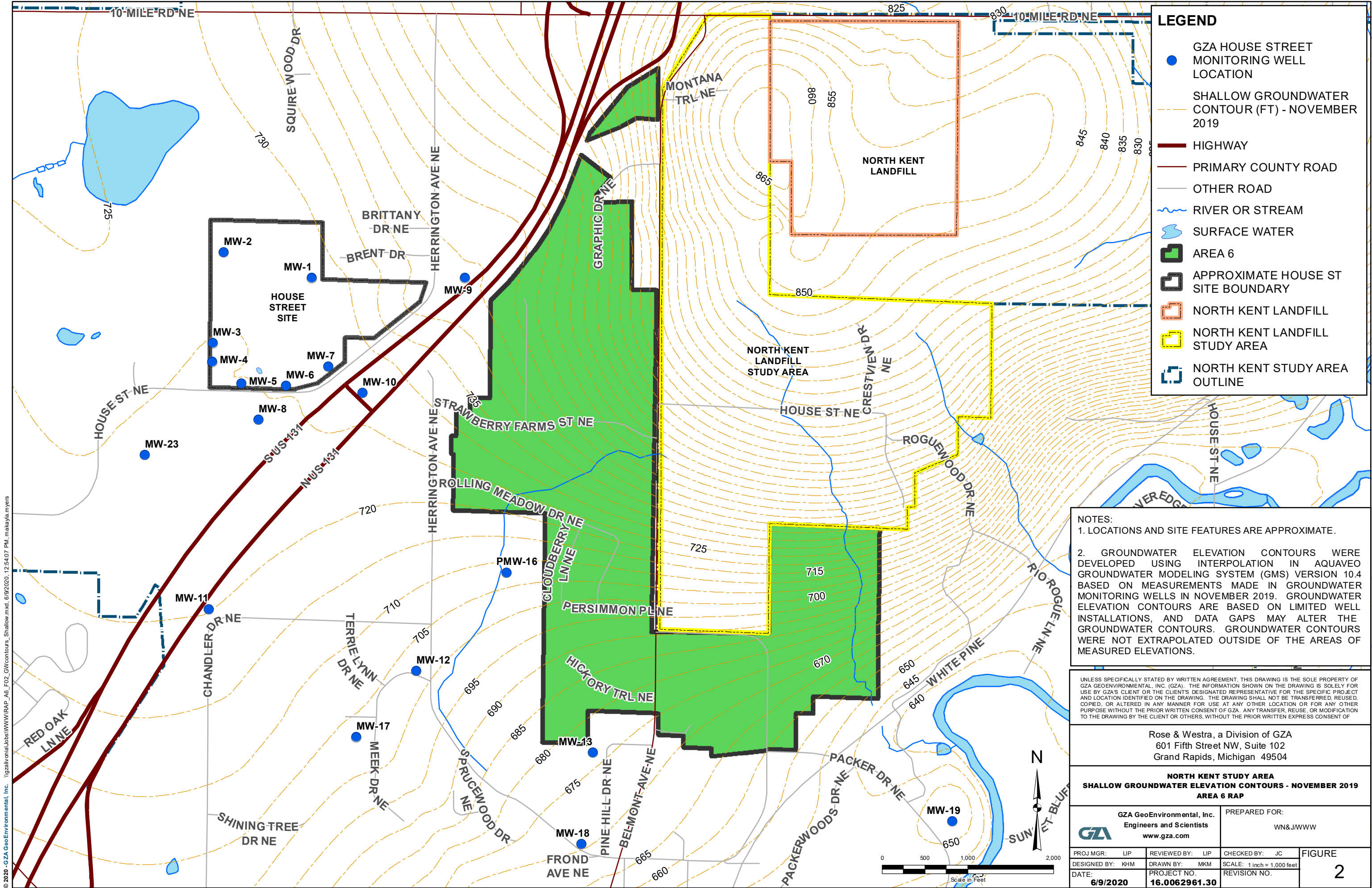
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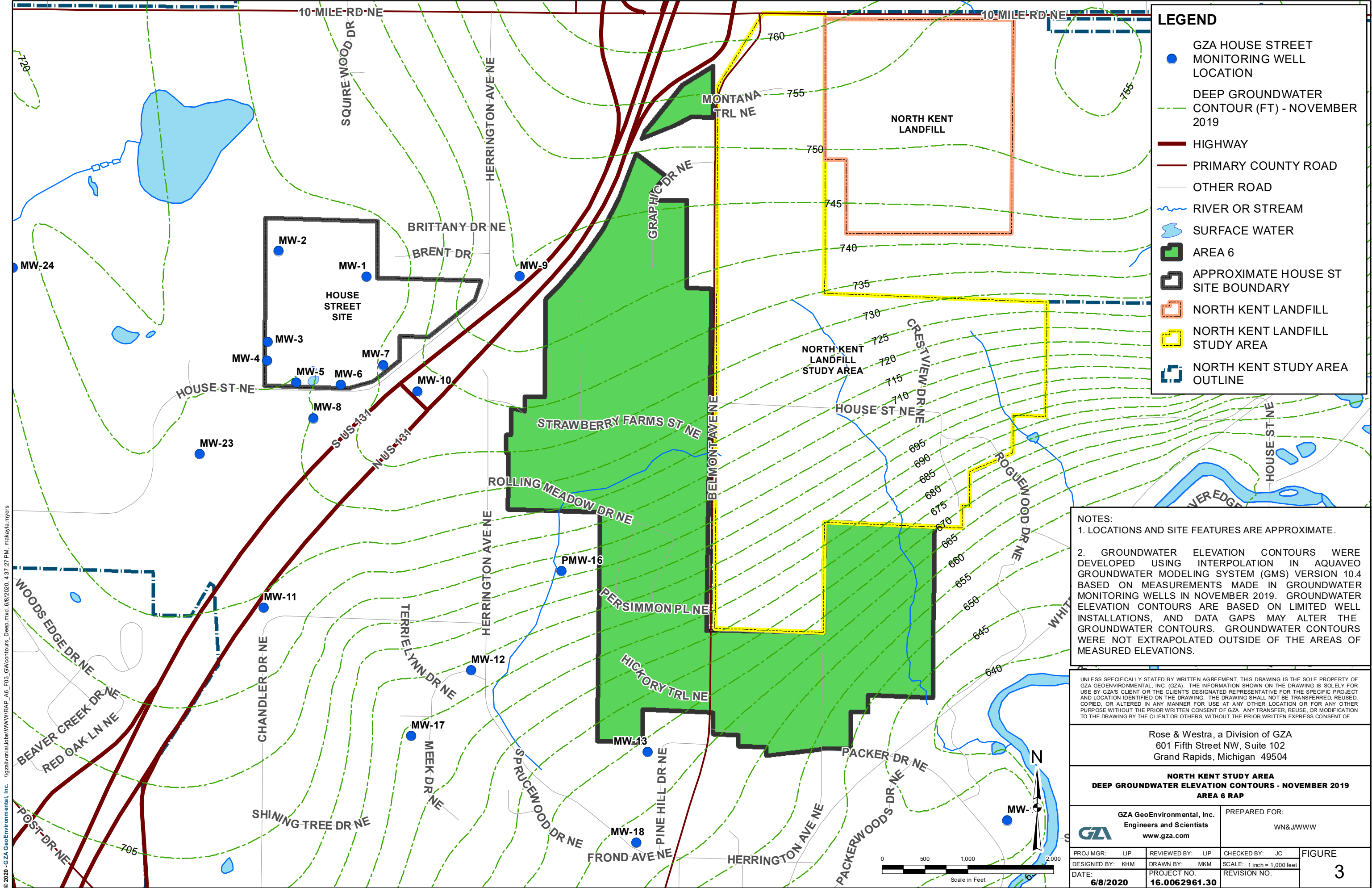
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**NORTH KENT STUDY AREA
GROUNDWATER INVESTIGATION AREAS
AREA 6 RAP**

GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: WN&JWWW	
PROJ MGR: LIP	REVIEWED BY: LIP	CHECKED BY: JC	FIGURE 1
DESIGNED BY: KHM	DRAWN BY: ADM	SCALE: 1 inch = 2,200 feet	
DATE: 6/9/2020	PROJECT NO: 16.0062961.30	REVISION NO:	

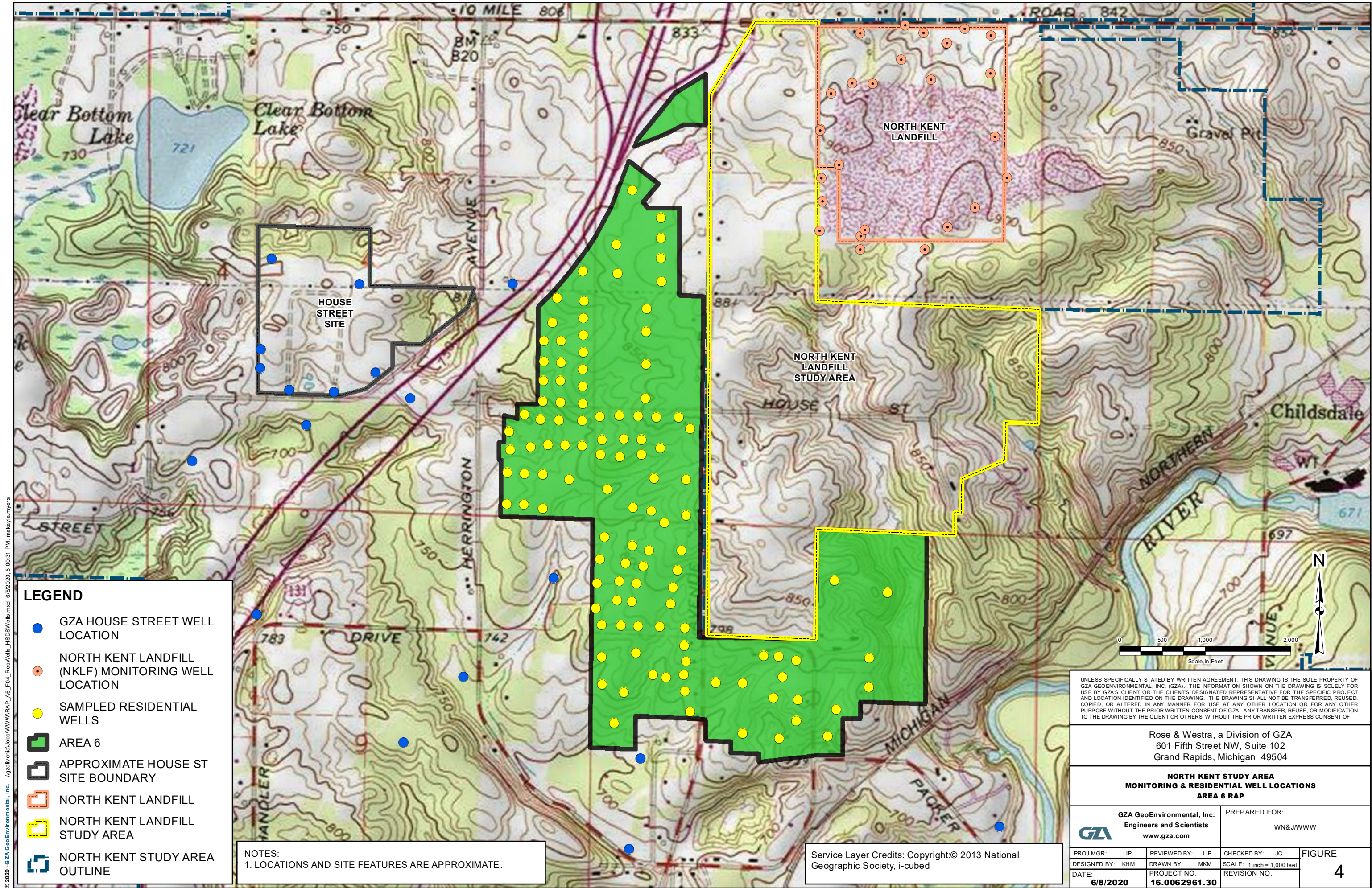
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LEGEND

- GZA HOUSE STREET WELL LOCATION
- NORTH KENT LANDFILL (NKLF) MONITORING WELL LOCATION
- SAMPLED RESIDENTIAL WELLS
- AREA 6
- APPROXIMATE HOUSE ST SITE BOUNDARY
- NORTH KENT LANDFILL
- NORTH KENT LANDFILL STUDY AREA
- NORTH KENT STUDY AREA OUTLINE

NOTES:
1. LOCATIONS AND SITE FEATURES ARE APPROXIMATE.

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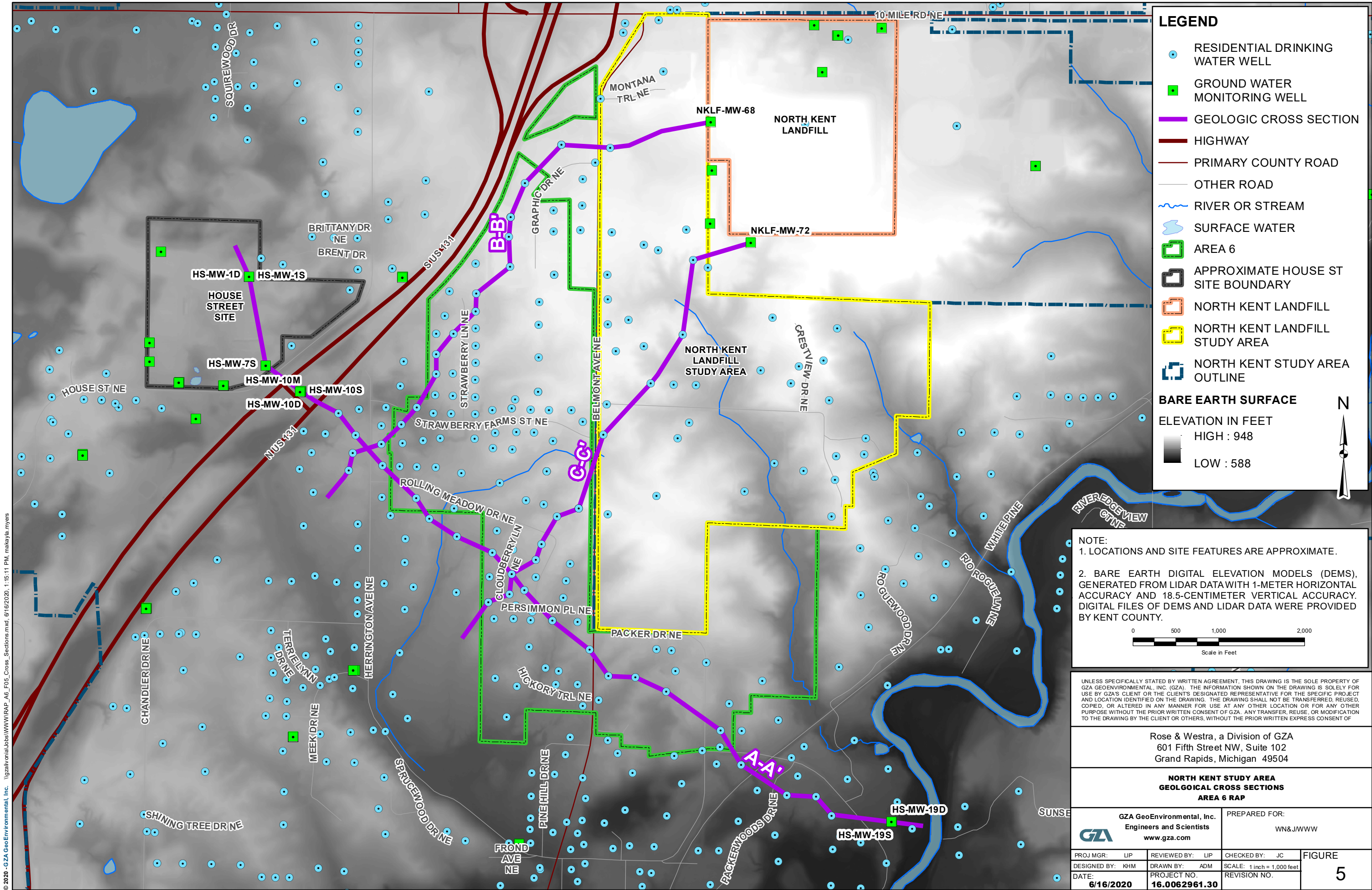
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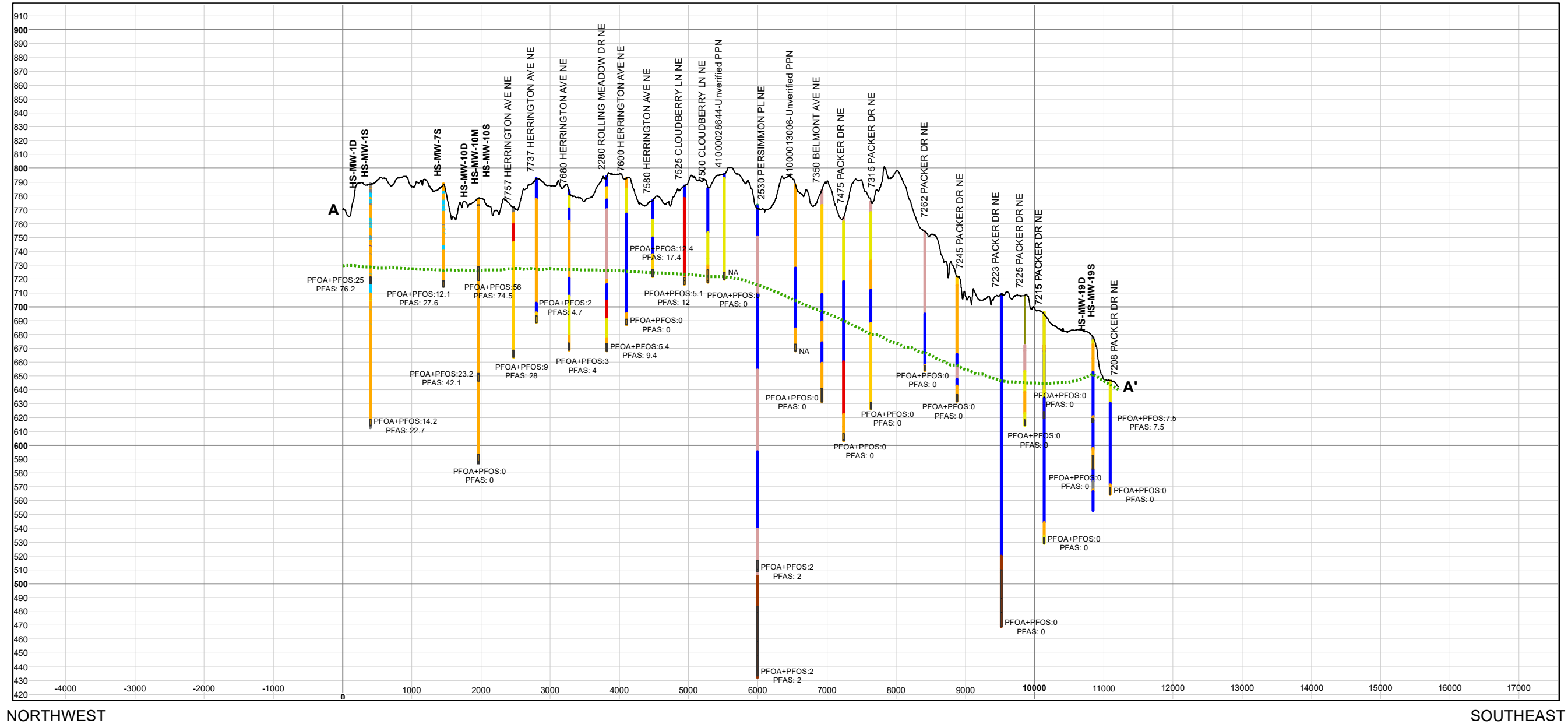
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**NORTH KENT STUDY AREA
MONITORING & RESIDENTIAL WELL LOCATIONS
AREA 6 RAP**

GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: WN&JWWW	
PROJ MGR: LIP	REVIEWED BY: LIP	CHECKED BY: JC	FIGURE
DESIGNED BY: KHM	DRAWN BY: MKM	SCALE: 1 inch = 1,000 feet	4
DATE: 6/8/2020	PROJECT NO. 16.0062961.30	REVISION NO.	

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CROSS SECTION LEGEND

WELL SCREEN

PFOA+PFOS (ng/L)
PFAS (ng/L)
0 = NOT DETECTED
NA = NOT AVAILABLE

ESTIMATED GROUNDWATER
TABLE (11/2019)

GROUND SURFACE

BOREHOLE LITHOLOGY

OTHER
GRAVEL
SAND AND GRAVEL
SAND
SAND/GRAVEL WITH CLAY/SILT
CLAY/SILT WITH SAND/GRAVEL
SILT
CLAY AND SILT
CLAY
TOP SOIL
BEDROCK
NOT AVAILABLE

OVERVIEW MAP LEGEND

PROPOSED INVESTIGATION
MONITORING WELL
PROPOSED INVESTIGATION
/ PERIMETER MONITORING
WELL
RESIDENTIAL WATER WELL
MONITORING WELL
CROSS SECTION LINE
HIGHWAY
PRIMARY COUNTY ROAD
OTHER ROAD
RIVER OR STREAM
SURFACE WATER
AREA 6
APPROXIMATE HOUSE ST
SITE BOUNDARY
NORTH KENT LANDFILL
NORTH KENT LANDFILL
STUDY AREA

NOTES:
1. LOCATIONS AND SITE FEATURES ARE APPROXIMATE.

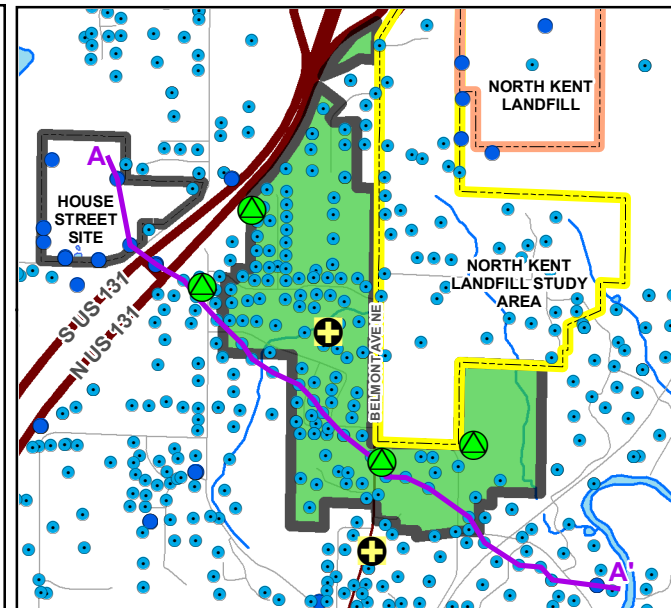
2. GROUND SURFACE ELEVATIONS ARE BASED ON
DIGITAL RASTER FILES OF BARE EARTH DIGITAL
ELEVATION MODELS (DEMS), GENERATED FROM LIDAR
DATA WITH 1-METER HORIZONTAL ACCURACY AND 18.5-
CENTIMETER VERTICAL ACCURACY. DIGITAL FILES OF
DEMS AND LIDAR DATA WERE PROVIDED BY KENT
COUNTY.

3. ESTIMATED GROUNDWATER TABLE WAS DEVELOPED
BASED ON MEASUREMENTS MADE IN GROUNDWATER
MONITORING WELLS IN NOVEMBER 2019.
GROUNDWATER ELEVATIONS WERE NOT MEASURED
FROM RESIDENTIAL WATER SUPPLY WELLS.

4. WELL SCREEN ELEVATIONS PROVIDED IN FEET
ABOVE MEAN SEA LEVEL, NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD 88). RESIDENTIAL WELL SCREEN
ELEVATIONS AND BOREHOLE LITHOLOGY ELEVATIONS
WERE CALCULATED USING WELL INFORMATION
PROVIDED BY THE STATE OF MICHIGAN'S WELLOGIC
DATABASE AND GROUND SURFACE ELEVATIONS OF THE
CENTER OF THE PPN GENERATED FROM LIDAR DATA
PROVIDED BY KENT COUNTY. ELEVATIONS ARE
ROUNDED TO THE NEAREST FOOT.

5. CONCENTRATIONS OF TOTAL PFAS AND PFOA+PFOS
DEPICTED ARE MAXIMUM CONCENTRATIONS DETECTED
AT THE SPECIFIED LOCATION.

OVERVIEW MAP



0150030006000

SCALE IN FEET

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NORTH KENT STUDY AREA
GEOLOGICAL CROSS SECTION A-A'
AREA 6 RAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

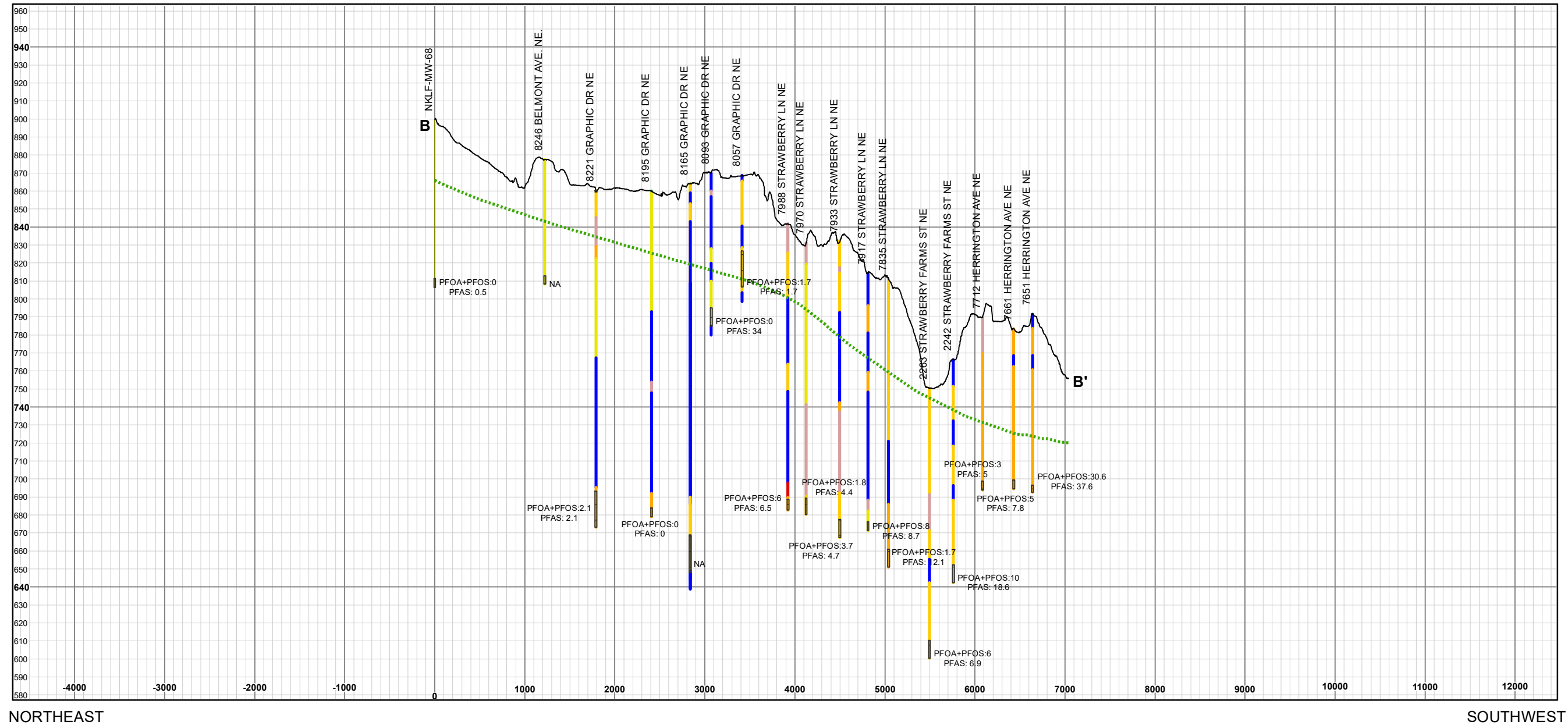
PREPARED FOR:
WN&J/WWW

PROJ MGR: LJP
DESIGNED BY: JC
DATE: 06/09/2020

REVIEWED BY: MW
DRAWN BY: JC
PROJECT NO: 16.0062961.30

CHECKED BY: LMN
SCALE: 1:36,000
REVISION NO:

FIGURE
6



CROSS SECTION LEGEND

- PFOA+PFOS (NG/L)
- PFAS (NG/L)
- 0 = NOT DETECTED
- NA = NOT AVAILABLE
- ESTIMATED GROUNDWATER TABLE (11/2019)
- GROUND SURFACE

BOREHOLE LITHOLOGY

- GRAVEL
- SAND AND
- SAND
- SAND/GRAVEL WITH CLAY/SILT

- CLAY/SILT WITH SAND/GRAVEL
- CLAY
- TOP SOIL
- NOT AVAILABLE

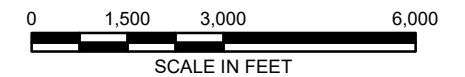
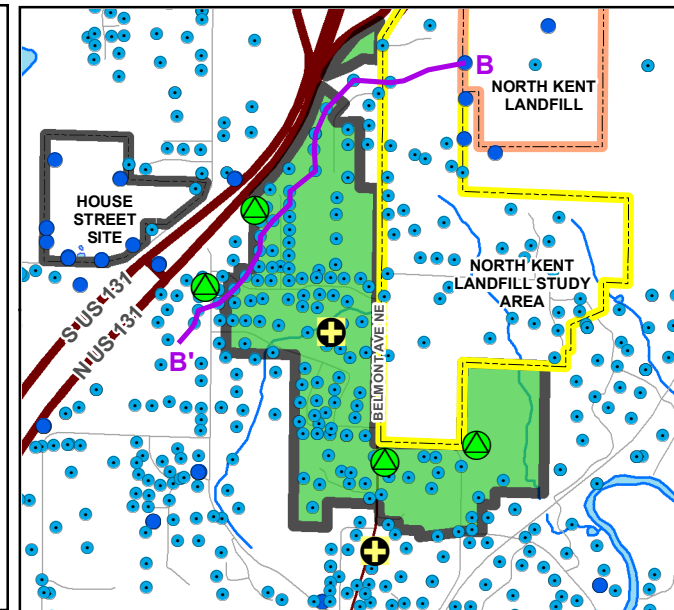
OVERVIEW MAP LEGEND

- PROPOSED INVESTIGATION WELL
- PROPOSED INVESTIGATION / PERIMETER MONITORING WELL
- RESIDENTIAL WATER WELL
- MONITORING WELL
- CROSS SECTION LINE
- HIGHWAY
- PRIMARY COUNTY ROAD
- OTHER ROAD
- RIVER OR STREAM
- SURFACE WATER

- AREA 6
- APPROXIMATE HOUSE ST SITE BOUNDARY
- NORTH KENT LANDFILL
- NORTH KENT LANDFILL STUDY AREA

- NOTES:
- LOCATIONS AND SITE FEATURES ARE APPROXIMATE.
 - GROUND SURFACE ELEVATIONS ARE BASED ON DIGITAL RASTER FILES OF BARE EARTH DIGITAL ELEVATION MODELS (DEMS), GENERATED FROM LIDAR DATA WITH 1-METER HORIZONTAL ACCURACY AND 18.5-CENTIMETER VERTICAL ACCURACY. DIGITAL FILES OF DEMS AND LIDAR DATA WERE PROVIDED BY KENT COUNTY.
 - ESTIMATED GROUNDWATER TABLE WAS DEVELOPED BASED ON MEASUREMENTS MADE IN GROUNDWATER MONITORING WELLS IN NOVEMBER 2019. GROUNDWATER ELEVATIONS WERE NOT MEASURED FROM RESIDENTIAL WATER SUPPLY WELLS.
 - WELL SCREEN ELEVATIONS PROVIDED IN FEET ABOVE MEAN SEA LEVEL, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). RESIDENTIAL WELL SCREEN ELEVATIONS AND BOREHOLE LITHOLOGY ELEVATIONS WERE CALCULATED USING WELL INFORMATION PROVIDED BY THE STATE OF MICHIGAN'S WELLOGIC DATABASE AND GROUND SURFACE ELEVATIONS OF THE CENTER OF THE PPN GENERATED FROM LIDAR DATA PROVIDED BY KENT COUNTY. ELEVATIONS ARE ROUNDED TO THE NEAREST FOOT.
 - CONCENTRATIONS OF TOTAL PFAS AND PFOA+PFOS DEPICTED ARE MAXIMUM CONCENTRATIONS DETECTED AT THE SPECIFIED LOCATION.

OVERVIEW MAP



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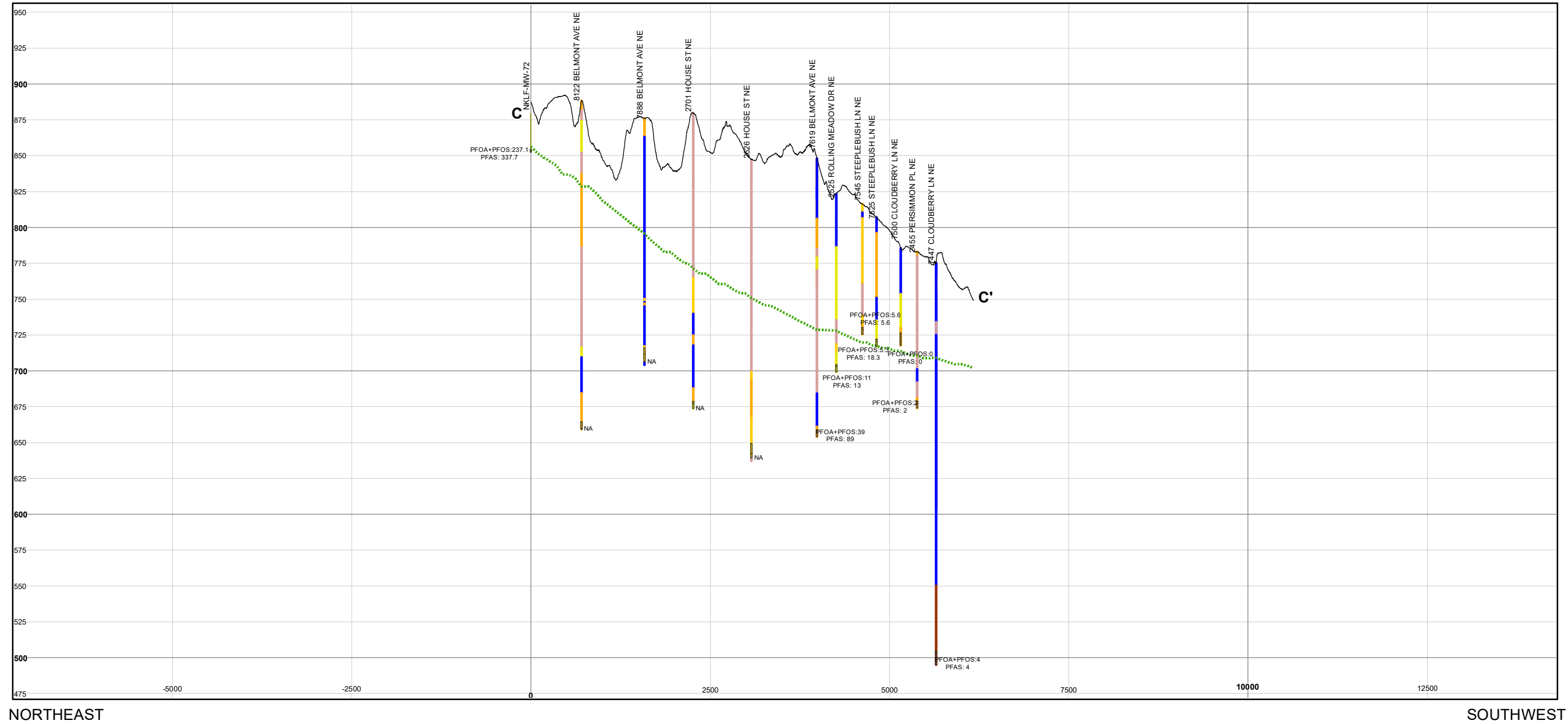
NORTH KENT STUDY AREA GEOLOGICAL CROSS SECTION B-B' AREA 6 RAP

PREPARED BY:
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Engineers and Scientists
www.gza.com

PREPARED FOR:
WN&J/WWW

PROJ MGR: LJP	REVIEWED BY: MW	CHECKED BY: LMN	FIGURE 7
DESIGNED BY: JC	DRAWN BY: JC	SCALE: 1:36,000	
DATE: 06/09/2020	PROJECT NO: 16.0062961.30	REVISION NO:	

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CROSS SECTION LEGEND

	PFOA+PFOS (NG/L) PFAS (NG/L) 0 = NOT DETECTED NA = NOT AVAILABLE		GRAVEL		CLAY/SILT WITH SAND/GRAVEL
	ESTIMATED GROUNDWATER TABLE (11/2019)		SAND AND GRAVEL		CLAY
	GROUND SURFACE		SAND		BEDROCK

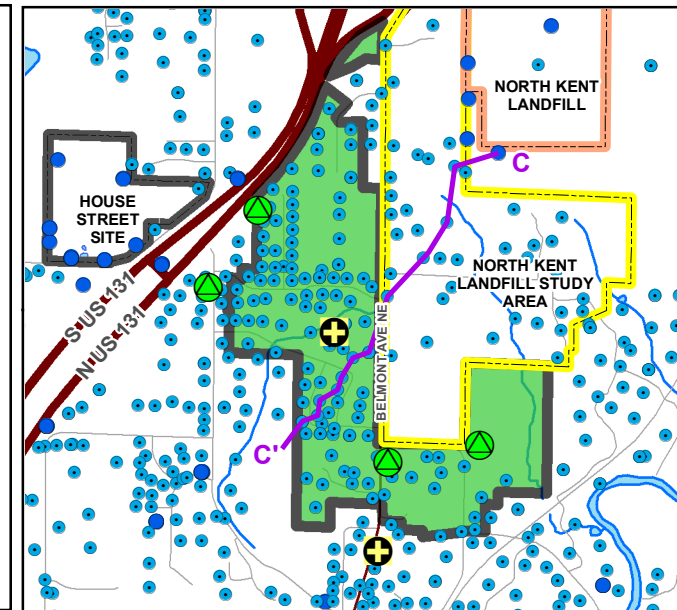
OVERVIEW MAP LEGEND

	PROPOSED INVESTIGATION MONITORING WELL		CROSS SECTION LINE		AREA 6
	PROPOSED INVESTIGATION / PERIMETER MONITORING WELL		HIGHWAY		APPROXIMATE HOUSE ST SITE BOUNDARY
	RESIDENTIAL WATER WELL		PRIMARY COUNTY ROAD		NORTH KENT LANDFILL
	MONITORING WELL		OTHER ROAD		NORTH KENT LANDFILL STUDY AREA
			RIVER OR STREAM		
			SURFACE WATER		

NOTES:

1. LOCATIONS AND SITE FEATURES ARE APPROXIMATE.
2. GROUND SURFACE ELEVATIONS ARE BASED ON DIGITAL RASTER FILES OF BARE EARTH DIGITAL ELEVATION MODELS (DEMS), GENERATED FROM LIDAR DATA WITH 1-METER HORIZONTAL ACCURACY AND 18.5-CENTIMETER VERTICAL ACCURACY. DIGITAL FILES OF DEMS AND LIDAR DATA WERE PROVIDED BY KENT COUNTY.
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4. WELL SCREEN ELEVATIONS PROVIDED IN FEET ABOVE MEAN SEA LEVEL, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). RESIDENTIAL WELL SCREEN ELEVATIONS AND BOREHOLE LITHOLOGY ELEVATIONS WERE CALCULATED USING WELL INFORMATION PROVIDED BY THE STATE OF MICHIGAN'S WELLOGIC DATABASE AND GROUND SURFACE ELEVATIONS OF THE CENTER OF THE PPN GENERATED FROM LIDAR DATA PROVIDED BY KENT COUNTY. ELEVATIONS ARE ROUNDED TO THE NEAREST FOOT.
5. CONCENTRATIONS OF TOTAL PFAS AND PFOA+PFOS DEPICTED ARE MAXIMUM CONCENTRATIONS DETECTED AT THE SPECIFIED LOCATION.

OVERVIEW MAP



0 1,500 3,000 6,000

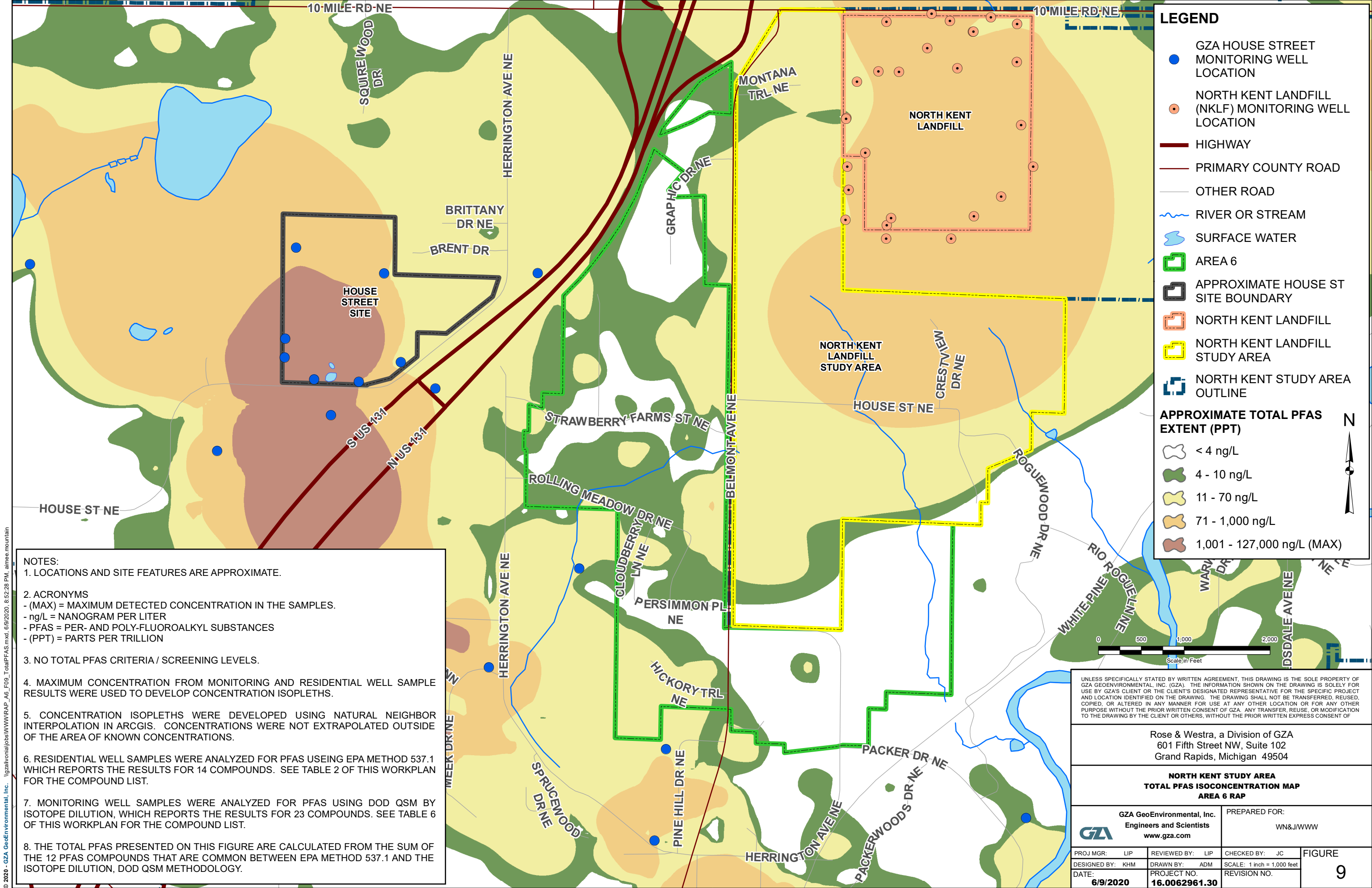
SCALE IN FEET

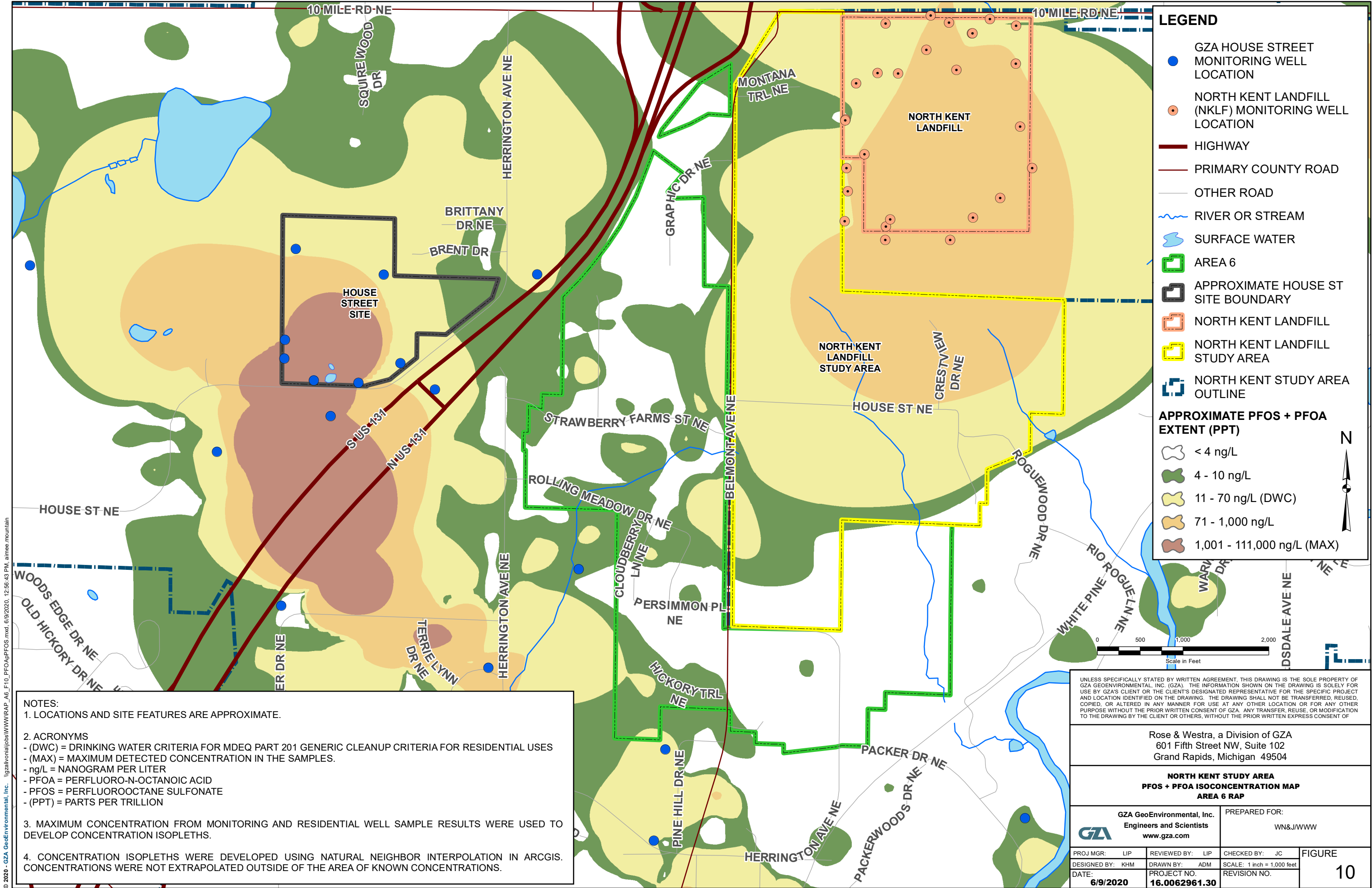
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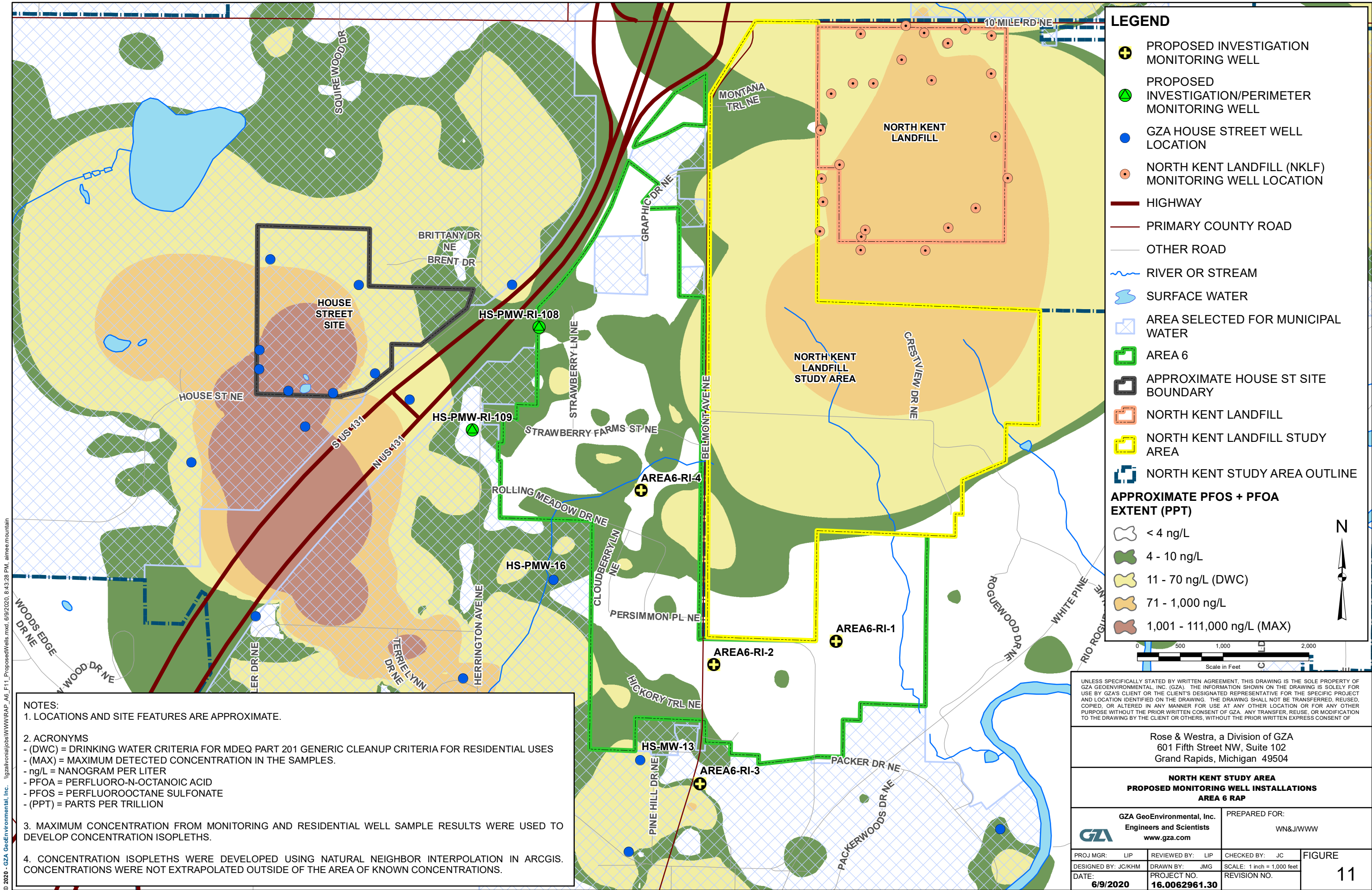
**NORTH KENT STUDY AREA
GEOLOGICAL CROSS SECTION C-C'
AREA 6 RAP**

PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:	WN&J/WWW		
PROJ MGR:	LJP	REVIEWED BY:	MW	CHECKED BY:	LMN	FIGURE 8
DESIGNED BY:	JC	DRAWN BY:	JC	SCALE:	1:36,000	
DATE:	06/09/2020	PROJECT NO:	16.0062961.30	REVISION NO:		





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**NORTH KENT STUDY AREA
PROPOSED MONITORING WELL INSTALLATIONS
AREA 6 RAP**

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PROJ MGR: LIP	REVIEWED BY: LIP	CHECKED BY: JC	FIGURE
DESIGNED BY: JC/KHM	DRAWN BY: JMG	SCALE: 1 inch = 1,000 feet	11
DATE: 6/9/2020	PROJECT NO. 16.0062961.30	REVISION NO.	



APPENDIX A – 2019 GROUNDWATER SAMPLING SUPPLEMENTAL MEMORANDUM



Rose & Westra
A Division of GZA

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION
MANAGEMENT

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www.gza.com



APPENDIX A

2019 GROUNDWATER SAMPLING SUPPLEMENTAL MEMORANDUM

June 18, 2020
File No. 16.0062961.30

PREPARED FOR:
Wolverine World Wide, Inc.
Rockford, Michigan

Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

601 Fifth Street NW | Suite 102 | Grand Rapids, MI 49504
616.956.6123

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1.0 INTRODUCTION

Since April 2017, Wolverine has voluntarily and proactively worked with EGLE, the Kent County Health Department (KCHD), and Michigan Department of Health and Human Services (MDHHS) to establish zones for drinking water well testing, provided alternate (bottled) water service, point of use (faucet) water filters, and point of entry (whole house) filter systems. As of December 2019, R&W/GZA has installed monitoring wells at twenty-nine (29) locations totaling eighty-four (84) wells within the House Street Study Area as shown on **Figure 4** of the Draft Area 6 Response Activity Plan, North Kent Study Area, submitted to EGLE on June 18, 2020 (Draft Area 6 RAP [R&W/GZA, 2020]). Of the 29 locations, seven (7) are located on the HSDS property, one (1) is on the adjoining Michigan Department of Transportation (MDOT) parcel, three (3) are located on the US-131 right of way (ROW), and the remaining eighteen (18) are placed within or surrounding the PFAS plume.

2.0 INVESTIGATION METHODOLOGY

2.1 GROUNDWATER INVESTIGATIONS

R&W/GZA retained drilling contractors to perform subsurface exploration and monitoring well installation to continue delineation of the extent of PFOA and PFOS both vertically and laterally in the NKSA. Since 2017, R&W/GZA oversaw the installation of eighty-four (84) groundwater monitoring wells at 29 locations in the HSDS study area. At most of the locations, multi-depth cluster wells were installed. The borings were drilled using either hollow stem auguring or rotosonic techniques. Soil samples were collected and logged every 5 feet. At certain locations VAP groundwater samples were collected every 10 feet in the saturated zone and submitted to an independent laboratory for the PFAS analysis using isotope dilution methodology in accordance with the most recent version of the DoD QSM procedures.

Monitoring well screen intervals were selected based on PFAS VAP sampling results and geological conditions. Each monitoring well was constructed of factory-slotted, 0.010-inch, 5-foot long PVC screen (in a few cases, 10-foot), and flush-threaded well casing. The annular space surrounding the well screen was filled with sand filter pack to approximately 3 feet above the top of the well screen, followed by a one to one and one half foot-thick hydrated bentonite seal. The remaining annulus was filled with cement and bentonite grout to approximately 1 foot bgs. The wells were finished with a steel protective casing set in a concrete pad. A locking expansion cap was placed in the top of the PVC casing. The NKSA-wide soil boring logs and well installation logs were included in the GSI RAP (R&W/GZA 2020). Static water level measurements are provided on **Table 4** of the Draft Area 6 RAP. See **Figure 4** of the Draft Area 6 RAP for the groundwater monitoring well and residential groundwater sampling locations.

Following installation, the newly installed wells were developed to remove sediment from the sand filter pack and well casing. The wells were developed using a 12-volt Mini-Typhoon® submersible pump equipped with dedicated tubing for each well. The pump was decontaminated between wells using a water and Alconox® wash with a water rinse. The wells were developed until the water ran clear. The development water was containerized and staged prior to proper disposal. The tubing and other disposable materials used during the well development were placed in a separate drum and stored for proper disposal.

In addition, surface water level measurement gauges were installed in the following locations in the Rogue River:

- Rockford Dam Seawall;
- East Bridge Street Bridge;



- Rogue River Road Bridge; and
- Jericho Avenue Bridge

The water levels measured from these locations were used in combination with available gaging height data at USGS gaging station, USGS04118500, to evaluate surface water levels in the Rogue River.

2.2 GROUNDWATER SAMPLING METHODS

Groundwater sampling followed the low-flow purging and sampling procedures identified in the project QAPP approved by EGLE in December 2018 (R&W/GZA, 2018). The wells were purged using either a GeoTech Peristaltic Pump or a GeoTech Bladder Pump and control box. Static water levels in the monitoring wells were measured to maintain stabilized drawdowns during purging. Field indicator parameters, temperature, pH, dissolved oxygen, specific conductance, ORP and turbidity, were monitored using a YSI PRO and field turbidity meters in accordance with the low-flow sampling SOP in the project QAPP. Once the field parameters stabilized, a groundwater sample was collected by disconnecting the tubing from the flow-through cell and collecting the sample directly from the tubing.

Groundwater samples were collected in laboratory-supplied sample containers labeled with the well ID, sample time and date, and analytes. The samples were packed in coolers with ice and shipped to the laboratory under chain-of-custody control via overnight express shipping.

As the subsurface exploration and monitoring well installation progressed, the newly installed wells were added to the sampling list in the quarter following their installation and development.

Groundwater sampling was conducted quarterly throughout 2019. See the **Table 1** below for sampling dates. The objective of the groundwater sampling was to provide data to evaluate water quality in the newly installed wells relative to historic, spatial, and temporal concentration trends.

Table 1 – Quarterly Groundwater Sampling Event Dates

Quarter	Dates Sampled
Quarter 1	February 26 – March 31
Quarter 2	May 14 – May 30 ¹
Quarter 3	September 6 – September 27
Quarter 4	November 18 – December 12
Note: 1. Newly-installed well series 30 and 31 sampled from July 1 through July 3, 2019.	

Due to the well installation schedule all 84 wells were not sampled all four quarters. **Table 2**, below, lists the wells that were sampled during Quarter 1 and those that were added during subsequent sampling rounds. Well construction information is provided **Table 3** of the Draft Area 6 RAP.



Table 2: House Street Study Area Well Additions

Quarter	Wells Sampled
Quarter 1	HS-MW-1S, HS-MW-1D, HS-MW-2S, HS-MW-3S, HS-MW-4S, HS-MW-5D, HS-MW-5S, HS-MW-6D, HS-MW-6S, HS-MW-7S, HS-MW-8, HS-MW-9D, HS-MW-9M, HS-MW-9S, HS-MW-10D, HS-MW-10M, HS-MW-10S, HS-MW-11D, HS-MW-11M, HS-MW-11S, HS-MW-15D, HS-MW-15M, HS-MW-15S, HS-MW-17D, HS-MW-17M, HS-MW-17S, HS-MW-18D, HS-MW-18S, HS-MW-19D, HS-MW-19S, HS-MW-20D, HS-MW-20M, HS-MW-20S, HS-MW-21D, HS-MW-21M, HS-MW-21S, HS-MW-25D, HS-MW-25S, HS-MW-26D, HS-MW-26M, HS-MW-26S
Quarter 2	Quarter 1 wells plus: HS-MW-30A, HS-MW-30B, HS-MW-30C, HS-MW-30D, HS-MW-30E, HS-MW-31A, HS-MW-31B, HS-MW-31C, HS-MW-31D, HS-MW-31E, HS-MW-32A, HS-MW-32B, HS-MW-32C, HS-MW-32D
Quarter 3	Quarter 1 and Quarter 2 wells plus: HS-MW-23A, HS-MW-23B, HS-MW-23C, HS-MW-23D, HS-MW-27A, HS-MW-27B, HS-MW-27C, HS-MW-27D, HS-MW-27E, HS-MW-28A, HS-MW-28B, HS-MW-28C, HS-MW-28D, HS-MW-28E
Quarter 4	Quarter 1, Quarter 2, and Quarter 3 wells plus: HS-MW-12A, HS-MW-12B, HS-MW-12C, HS-MW-12D, HS-MW-12E, HS-MW-24A, HS-MW-24B, HS-MW-29A, HS-MW-29B, HS-MW-29C, HS-MW-29D

3.0 STUDY AREA SAMPLING RESULTS

Groundwater analytical results for PFAS are provided on **Table 6** of the Draft Area 6 RAP. The analytical reports and associated electronic data deliverables were previously provided to EGLE.

4.0 QA/QC

Investigative QA/QC procedures are outlined in the project QAPP approved by EGLE in December 2018 and subsequently revised. Selected data have or will be validated according to performance requirements and the QA/QC limits in Table D.1.1 of the project QAPP. In addition, R&W/GZA consulted the general guidance in the EPA Contract Laboratory Program National Functional Guidance for Organic and Inorganic Superfund Data Review and relevant analytical methods to assess data usability.

In R&W/GZA's opinion, the field and laboratory quality control results indicate that the sampling and analyses performed in generating the data described in this Report were generally consistent with the analytical methods and the project QAPP requirements. The project data are acceptable and suitable for site characterization purposes and consequently can be used for decision-making purposes. The limitations identified by the applied qualifiers should be considered when using the data.

5.0 REFERENCES

- R&W/GZA. (2018). Quality Assurance Project Plan, Former Wolverine Tannery, House Street Disposal Area, and Woven/Jewell Area, Per- and Polyfluoroalkyl Substances Investigation Program. Grand Rapids, MI: R&W/GZA.
- R&W/GZA. (2020). Area 6 Response Activity Plan, North Kent Study Area. Submitted to EGLE June 18, 2020.



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