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May 1, 2019
File No. 20.0156044.10

Mr. David P. Misky, CHMM
Redevelopment Authority of the City of Milwaukee
809 North Broadway, 2nd Floor
Milwaukee, Wisconsin 53201-3617

Re: Fill Evaluation Report
Vacant Lot - Fifth Ward
200 East Greenfield Avenue
Milwaukee, Wisconsin

Dear Mr. Misky:

In accordance with our February 19, 2019 Proposal for Geotechnical and Fill Material Evaluation Services, GZA File No. 20.P000665.19, and as a follow-up to our discussion of results on March 22, 2109, GZA GeoEnvironmental, Inc. (GZA) is pleased to present this Fill Evaluation Report to the Redevelopment Authority of the City of Milwaukee (RACM/"Client") regarding the subsurface conditions that exist at the vacant lot located east of the northeast corner of South 1st Street and East Greenfield Avenue at 200 East Greenfield Avenue in the City of Milwaukee, Wisconsin ("Site"). This Fill Evaluation Report presents GZA's understanding of the project and the results of the environmental services conducted by GZA on-Site on March 6 and 7, 2019, and also describes the field and analytical testing, results, and conclusions. The scope of work presented herein was developed following completion of a file review at the Wisconsin Department of Natural Resources (WDNR) on February 11, 2019, following your authorization on February 7, 2019. Please note that this report is subject to the Limitations provided in Attachment 1.

BACKGROUND

At the request of RACM, GZA performed environmental services at the Site to assist Client in evaluating the composition and potential material liability of the fill materials for the evaluation of potential alternative developments for the Site. The scope of work and its findings, as presented herein, were designed to evaluate the composition and material liability of the approximately 2,000 cubic yards of fill material that were previously placed and spread across the northern three-quarters of the Site to a thickness of 1 to 3 feet in 2016. The fill was subsequently capped with 6 inches of clay and seeded in 2017.

Construction of the Cermak store (Freshwater Plaza Lot 1) north and adjacent to the Site generated approximately 2,000 cubic yards of excess soil from the building footprint. The soils were stockpiled on-Site in late 2015 to early 2016. The fill material was originally proposed to raise the grades on the west adjacent lot, but the Freshwater Plaza Corporation construction team determined the fill would not fit at the lot. As such, the 2,000 cubic yards of fill materials were subsequently spread out on the Site.

SITE DESCRIPTION

The Site is located in the City of Milwaukee, within the southeast ¼ of the southeast ¼ of The United States Public Land Survey Section No. 32, Township 7 North, Range 22 East, Milwaukee County, Wisconsin. A Site Location Map is provided as Figure 1.

The Site consists of a single parcel totaling approximately 2.04 acres and identified by the following tax key number: 4311304000. The Site is an undeveloped, vacant lot and part of the Freshwater Plaza development. The Site is bounded on the north by a grocery store, on the south by East Greenfield Avenue, on the east by railroad tracks, and on the west by an asphalt parking lot and commercial/residential development. The Site slopes west and south with elevations ranging from about 592 to 586 feet (NGVD 29) (per Milwaukee County GIS website). The Site has remained largely vacant since at least 1937, with some railroad tracks and parking/staging developments at various times.

It is understood that RACM owns the Site, which had previously been privately held. RACM has requested that GZA provide a preliminary geotechnical evaluation of the Site and environmental assessment of the upper fill soils recently placed at the Site. The geotechnical evaluation has been provided by GZA under a separate cover. Although development plans are not developed for the Site, it is assumed that the Site will be used for future commercial or residential development.

FILL EVAULATION ACTIVITIES

To evaluate soil conditions at the Site and the potential for impaired media from the adjacent development, GZA observed the advancement of 12 borings (B-1 through B-12) by Badger State Drilling using hollow-stem augers (HSA) and/or mud rotary techniques at the Site on March 6 and 7, 2019, as identified on Figure 2. The borings were advanced to a depth of 5 feet below ground surface (bgs) for soil and fill evaluation and analytical testing. Select borings were advanced deeper for geotechnical evaluation.

Soil samples were collected continuously from the ground surface to the terminus of the borings. The soil samples were collected for visual classification, field-screened for organic compound vapor emissions using a photoionization detector (PID) equipped with a 10.6 eV lamp, and possible laboratory analysis. Physical observations and PID screening results are presented on the soil boring logs, which are provided in Attachment 2.

Soil samples from each identified fill unit were collected and placed into laboratory-supplied containers, placed on ice in an insulated cooler, and submitted to Synergy Environmental Lab, Inc. (Synergy) of Appleton, Wisconsin under chain-of-custody protocol. Soil samples were submitted for volatile organic compound (VOC), polycyclic aromatic hydrocarbon (PAH), Resource Conservation and Recovery Act (RCRA) metals, and polychlorinated biphenyl (PCB) analyses in accordance with United States Environmental Protection Agency (USEPA) Methods 8260, 8270, 6010, and 8082, respectively, and USEPA Method 6010 (Method 7470 for total mercury). The laboratory analytical reports for the soil samples submitted from the Site are provided in Attachment 3.

SUBSURFACE SOIL CONDITIONS

Surface conditions at the boring locations consisted of approximately 4 to 16 inches of a clayey cap soils underlain with several feet of formerly placed fill soils. Fill soils consisted of at least two layers of fill (identified as Fill 1 and Fill 2 on the boring logs) and extended to about 8.5 feet bgs. The upper fill (Fill 1) consisted of predominately clayey sand and sandy, lean clay (Unified Soil Classification System [USCS] Soil Classifications: SC and CL, respectively); however, variations in Fill 1 were noted with areas of silty clay and poorly-graded sand present (USCS Classifications: CL-ML and SP, respectively). The deeper fill soils (Fill 2) largely consisted of clayey sand, sandy, lean clay and various amounts of gravel, silt, and foundry sand. Native soils were encountered in borings extending below about 6 feet bgs (borings B-2, B-6, B-7, B-9, and B-12) and consisted of varying sandy soils and fine-grained soils, common for lacustrine deposits in the area. Thickness and depths of these layers were not consistent between individual borings. Organic-rich peat soils were encountered at depths of 18.5 to 20 feet bgs and may extend to depths of up to 25 feet bgs or greater.

Groundwater was encountered in several geotechnical soil borings and ranged from about 12.1 to 13.75 feet bgs. The direction of shallow groundwater flow is anticipated to be northeast toward Lake Michigan.

Elevated PID levels were not recorded during the field screening process with the PID instrument, except for B-11 (4 to 6 feet) with a reading of 33.8 parts per million by volume (ppmv). Soil samples from the other borings exhibited PID readings less than 4 instrument units (IUs). In addition, no unusual odors or discoloration, except for foundry sand and charred materials, were noted in the collected soil samples.

SOIL ANALYTICAL RESULTS

Laboratory analytical reports and chain-of-custody documentation for soil samples collected and submitted during the investigation are provided in Appendix C. A summary of the soil analytical results collected on March 6 and 7, 2019, are summarized in Table 1 and below. Constituents detected in soil samples were compared to the WDNR Residual Contaminant Levels (RCLs) and Background Threshold Values (BTVs).

- VOCs reported in the fill soils were limited. Tetrachloroethene (PCE) was detected in B-2 (3 to 5 feet) and B-8 (3 to 5 feet) above the Soil to Groundwater Pathway RCL. Naphthalene was detected in B-8 (0 to 3 feet) and B-11 (2 to 6 feet) above the Soil to Groundwater Pathway RCL and Non-Industrial Direct Contact RCL, respectively.
- PAHS including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were found Sitewide above the Soil to Groundwater Pathway RCL and Non-Industrial Direct Contact RCL. Naphthalene was detected in B-11 (2 to 6 feet) above the Non-Industrial Direct Contact RCL.
- RCRA metals including arsenic, cadmium, lead, mercury, and selenium were found Sitewide above the Soil to Groundwater Pathway RCL and Non-Industrial Direct Contact RCL. Boring B-1, located in the northwest corner of the lot, had concentrations of arsenic, mercury, and lead above the Non-Industrial Direct Contact RCL and selenium above the soil to groundwater RCL. Given the proximity of B-1 to the adjacent Cermak store, the elevated levels of metals may be from grading activities that may have moved soils from Lot 1 onto Lot 4.
- PCBs, which exceeded the RCLs in the fill soils, were limited to the Fill 1 unit. PCB-1242 was detected in B-9 (0 to 2 feet) above the Non-Industrial Direct Contact RCL.

The soil boring locations with PAH, RCRA metals, and PCB concentrations exceeding NR 726 RCLs are provided on Figures 3, 4, and 5, respectively.

SUMMARY AND CONCLUSIONS

The findings below are based on the work conducted as part of the fill evaluation:

- The upper fill (Fill 1) consisted predominately of clayey sand and sandy, lean clay. The deeper fill soils (Fill 2) largely consisted of clayey sand, sandy, lean clay and various amounts of gravel, silt, and foundry sand.
- Field screening and laboratory analyses of soil samples did not identify a notable source of VOCs in the areas sampled.
- PAHs were found in soil samples collected Sitewide at concentrations exceeding both the soil to groundwater RCLs and the Non-Industrial Direct Contact RCLs.
- RCRA metals (arsenic, cadmium, lead, mercury, and selenium) were found in soil samples collected Sitewide. Lead was reported at concentrations above the Non-Industrial Direct Contact RCL in both fill units.
- PCBs identified in soil boring B-9, which exceeded the Non-Industrial Direct Contact RCLs, will require further delineation to determine the volume of PCB-affected soils for management or off-Site disposal.
- Future development of the Site will require incorporation of a cap or cover to limit direct contact with the fill materials with elevated PAHs and RCRA metals, as well as limit the recharge of storm water through the fill soils. A cap management plan will also be required by the WDNR.
- The concentrations of VOCs, metals, and PAHs are similar for both fill units.

- A low-hazard exemption could be pursued to identify a low hazard landfill for disposal of excess or geotechnically unsuitable soils that may be removed from the Site.

We appreciate the opportunity to be of service to RACM. Please feel free to contact the undersigned with questions or comments, or if you require further information.

Very truly yours,

GZA GeoEnvironmental, Inc.

Madeline J. Salo
Hydrogeologist

Heidi Woelfel
Project Manager

James F. Drought, P.H.
Principal Hydrogeologist

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Attachments: Table 1
Figures 1 through 5
Limitations
Soil Boring Logs
Soil Laboratory Analytical Reports and Chain-of-Custody Forms

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS
200 East Greenfield Avenue
Milwaukee, Wisconsin

Bac	Units[2]	Soil to Groundwater Pathway RCL[6]	Non-Industrial Direct Contact Pathway RCL[6]	Industrial Direct Contact Pathway RCL[6]	Background Threshold Value	B-1 (0'-4')	B-2 (0'-3')	B-2 (3'-5')	B-3 (0'-3')	B-3 (3'-5')	B-4 (0'-3')	B-4 (3'-5')	B-5 (0'-2')	B-5 (2'-5')	B-6 (0'-2')
Sample Date						3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019
% Moisture	wt%	NS	NS	NS	NS	16.5	11.2	12	13.8	13.9	15.8	10.4	11.9	12.1	12
VOCs															
1,1,1,2-Tetrachloroethane	mg/kg	0.0534	2.78	12.3	NS	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
1,1,1-Trichloroethane	mg/kg	0.1402	640	640	NS	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
1,1,2,2-Tetrachloroethane	mg/kg	0.0002	0.81	3.6	NS	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
1,1,2-Trichloroethane	mg/kg	0.0032	1.59	7.01	NS	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
1,1-Dichloroethane	mg/kg	0.4834	5.06	22.2	NS	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034
1,1-Dichloroethene	mg/kg	0.005	320	1,190	NS	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
1,2,3-Trichlorobenzene	mg/kg	NS	62.6	934	NS	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066
1,2,4-Trichlorobenzene	mg/kg	0.408	24	113	NS	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064
1,2,4-Trimethylbenzene	mg/kg	1.3787	219	219	NS	< 0.025	0.042	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.059	< 0.025	< 0.025
1,3,5-Trimethylbenzene	mg/kg		182	182	NS	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
1,2-Dibromo-3-chloropropane	mg/kg	0.0002	0.008	0.092	NS	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
1,2-Dichlorobenzene	mg/kg	1.1680	376	376	NS	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
1,2-Dichloroethane	mg/kg	0.0028	0.652	2.87	NS	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
1,2-Dichloropropane	mg/kg	0.0033	3.4	15	NS	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
1,3-Dichlorobenzene	mg/kg	1.1528	297	297	NS	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037
1,3-Dichloropropane	mg/kg	NS	1,490	1,490	NS	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
1,4-Dichlorobenzene	mg/kg	0.144	3.74	16.4	NS	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037
2-Chlorotoluene	mg/kg	NS	907	907	NS	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
4-Chlorotoluene	mg/kg	NS	253	253	NS	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Benzene	mg/kg	0.0051	1.6	7.07	NS	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Bromobenzene	mg/kg	NS	342	679	NS	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Bromodichloromethane	mg/kg	0.0003	0.418	1.83	NS	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074
Bromoform	mg/kg	0.0023	25.4	113	NS	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
Carbon Tetrachloride	mg/kg	0.0039	0.916	4.03	NS	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Chlorobenzene	mg/kg	0.1358	370	761	NS	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Chloroethane	mg/kg	0.2266	NS	NS	NS	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Chloroform	mg/kg	0.0033	0.454	1.98	NS	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
Chloromethane	mg/kg	0.0155	159	669	NS	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
cis-1,2-Dichloroethene	mg/kg	0.0412	156	2,340	NS	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
cis-1,3-Dichloropropene	mg/kg	0.0003	1,210	1,210	NS	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039
trans-1,3-Dichloropropene	mg/kg		1,510	1,510	NS	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Dibromochloromethane	mg/kg	0.032	8.28	38.9	NS	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Dichlorodifluoromethane	mg/kg	3.0863	126	530	NS	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048
Di-isopropyl ether	mg/kg	NS	2,260	2,260	NS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
EDB (1,2-Dibromoethane)	mg/kg	0.0000282	0.05	0.221	NS	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Ethylbenzene	mg/kg	1.57	8.02	35.4	NS	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
Hexachlorobutadiene	mg/kg	0.0252	1.63	7.19	NS	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
Isopropylbenzene	mg/kg	NS	NS	NS	NS	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034
m&p-Xylene	mg/kg	3.96	388	388	NS	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072
o-Xylene	mg/kg		434	434	NS	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044
Methyl tert-butyl ether (MTBE)	mg/kg	0.027	63.8	282	NS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylene chloride	mg/kg	0.0026	61.8	1,150	NS	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Naphthalene	mg/kg	0.6582	5.52	24.1	NS	< 0.094	0.108	< 0.094	< 0.094	< 0.094	< 0.094	0.112	< 0.094	0.172	< 0.094
n-Butylbenzene	mg/kg	NS	108	108	NS	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
n-Propylbenzene	mg/kg	NS	264	NS	NS	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
p-Isopropyltoluene	mg/kg	NS	162	162	NS	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
sec-Butylbenzene	mg/kg	NS	145	145	NS	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
tert-Butylbenzene	mg/kg	NS	183	183	NS	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026
Tetrachloroethene	mg/kg	0.0045	33	145	NS	< 0.032	< 0.032	***0.051***	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Toluene	mg/kg	1.1072	818	818	NS	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
trans-1,2-Dichloroethene	mg/kg	0.0626	1,560	1,850	NS	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
Trichloroethene (TCE)	mg/kg	0.0036	1.3	8.41	NS	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041
Trichlorofluoromethane	mg/kg	4.4775	1,230	1,230	NS	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041
Vinyl Chloride	mg/kg	0.0001	0.067	2.08	NS	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
PAHs / SVOCs															
1-Methylnaphthalene	mg/kg	NS	17.6	72.7	NS	0.292	0.038	0.0292	0.0223	0.085	0.069	0.156	0.045	0.113	0.111
2-Methylnaphthalene	mg/kg	NS	239	3,010	NS	0.28	0.034	0.031	0.0257	0.103	0.083	0.21	0.047	0.121	0.125
Acenaphthene	mg/kg	NS	3,590	45,200	NS	1.68	0.077	0.038	0.075	0.169	0.215	0.38	0.095	0.274	0.161
Acenaphthylene	mg/kg	NS	NS	NS	NS	0.46	0.097	0.0294	0.0252	0.119	0.08	0.075	0.107	0.132	0.123
Anthracene	mg/kg	196.9492	17,900	100,000	NS	6.2	0.33	0.187	0.217	0.53	0.74	0.84	0.42	0.7	0.56
Benzo (a) anthracene	mg/kg	NS	1.14	20.8	NS	**11.5**	**1.2**	0.52	0.51	**1.9**	**1.58**	**1.86**	**1.72**	**1.75**	**1.47**
Benzo (a) pyrene	mg/kg	0.47	0.115	2.11	NS	**9.5**	**1.14**	**0.47**	**0.56**	**2.17**	**1.7**	**1.89**	**1.8**	**1.88**	**1.81**
Benzo (b) fluoranthene	mg/kg	0.4781	1.15	21.1	NS	**13.2**	**1.62**	***0.72***	***0.8***	**3.09**	**2.41**	**2.73**	**2.48**	**2.64**	**2.55**
Benzo (ghi) perylene	mg/kg	NS	NS	NS	NS	5.3	0.71	0.29	0.35	1.46	0.98	1.1	1.11	1.08	1.1
Benzo (k) fluoranthene	mg/kg	NS	11.5	211	NS	4.2	0.53	0.23	0.252	0.98	0.78	0.84	0.79	0.82	0.77
Chrysene	mg/kg	0.1442	115	2,110	NS	***11.7***	***1.13***	***0.51***	***0.53***	***1.88***	***1.65***	***1.79***	***1.6***	***1.72***	***1.59***
Dibenzo (a,h) anthracene	mg/kg	NS	0.115	2.11	NS	**1.64**	**0.199**	0.081	0.094	**0.39**	**0.28**	**0.314**	**0.296**	**0.301**	**0.289**
Fluoranthene	mg/kg	88.8778	2,390	30,100	NS	23.1	2.31	1.1	1.03	3.5	3.3	3.8	2.89	3.5	3.1
Fluorene	mg/kg	14.8299	2,390	30,100	NS	2.16	0.093	0.052	0.09	0.179	0.304	0.5	0.115	0.34	0.218
Indeno (1,2,3-cd) pyrene	mg/kg	NS	1.15	21.1	NS	**4.9**	0.66	0.274	0.32	**1.38**	0.96	1.03	1.02	1.03	1.03
Naphthalene	mg/kg	0.6582	5.52	24.1	NS	0.48	0.0207	0.0197	0.0252	0.104	0.075	0.4	0.038	0.151	0.17
Phenanthrene	mg/kg	NS	NS	NS	NS	19.4	0.89	0.52	0.67	1.76	2.27	2.62	1.14	2.31	1.87
Pyrene	mg/kg	54.5455	1,790	22,600	NS	18.8	2.06	0.93	0.87	3.2	2.69	3.15	2.62	3.03	2.85
PCBs															
PCB-1016	mg/kg	NS	4.11	28	NS	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035
PCB-1221	mg/kg	NS	0.213	0.883	NS	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054
PCB-1232	mg/kg	NS	0.19	0.792	NS	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
PCB-1242	mg/kg	NS	0.235	0.972	NS	< 0.0032	0.0133	< 0.0032	0.056	0.118	0.128	0.131	< 0.0032	0.042	0.066
PCB-1248	mg/kg	NS	0.236	0.975	NS	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
PCB-1254	mg/kg	NS	0.239	0.988	NS	< 0.0047	0.0295	< 0.0047	< 0.0047	0.094	0.08	0.158	0.07	0.032	0.159
PCB-1260	mg/kg	NS	0.243	1	NS	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
Metals															
Arsenic	mg/kg	0.584	0.677	3	8	**13.5**	2.11	2.14	3.33	2.74	2.99	4.21	4.21	4.27	5.25
Barium	mg/kg	164.8	15,300	100,000	364	248	97.3	76.9	80.9	98.1	50.7	126	126	52.1	107
Cadmium	mg/kg	0.752	71.1	985	1	***1.63***	0.209	0.279	0.794	***1.3***	0.525	***1.13***	***1.13***	0.249	***1.23***
Chromium	mg/kg	360,000	NS	NS	44	16.3	34.8	21.8	34.8	26.8	25.2	48	48	15.9	98
Lead	mg/kg	27	400	800	52	**1760**	38.1	***76.9***	***203***	1.97	***143***	**564**	**564**	***69.3***	**297**
Mercury	mg/kg	0.208	3.13	3.13	NS	**32.8**	0.074	0.083	***0.798***	***0.813***	***0.227***	***0.488***	***0.84***	***0.349***	***0.664***
Selenium	mg/kg	0.52	391	5,840	NS	***2.4***	***0.99***	***0.723***	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	***1.41***
Silver	mg/kg	0.8491	391	5,840	NS	0.493	< 0.12	0.214	0.715	0.203	< 0.12	0.434	0.434	< 0.12	0.236

Notes:
1. Soil samples were collected by GZA, GeoEnvironmental Inc. The sample collection depths are recorded as feet below ground surface (bgs).
2. Results are provided in instrument units (IU), milligrams per kilogram (mg/kg), micrograms per kilogram (µg/kg), or milligrams per liter (mg/L) as indicated.
3. Residual Contaminant Levels (RCLs) were obtained from the RCL spreadsheet (updated December 2018) available on the following Wisconsin Department of Natural Resources (WDNR) website: http://dnr.wi.gov/topic/Brownfields/Professionals.html. The spreadsheet was prepared by WDNR staff using the U.S. EPA's Regional Screening Level (RSL) Web-Calculator.
4. "NS" = No RCL was provided in the WDNR RCL spreadsheet for the parameter.
5. All compounds analyzed are presented.
6. ***Bold italicized*** concentrations indicate an exceedance of the Soil to Groundwater Pathway RCL. Concentrations in ***red font*** indicate an exceedance of the Non-Industrial Direct Contact RCL. The direct contact RCLs are applicable to samples collected at depths 0 to 4 feet below ground surface.
7. "<" indicates the parameter was detected in the sample at a concentration below the method detection limit (MDL).
8. J flagged results indicate that the analyte was detected between the MDL and the limit of detection/quantification. These results are considered an estimate.
9.

PID	Photoionization Detector
VOCs	Volatile Organic Compounds
PAHs	Polycyclic Aromatic Hydrocarbons

TABLE 1
SOIL ANALYTICAL RESULTS
200 East Greenfield Avenue
Milwaukee, Wisconsin

Bac	Units[2]	Soil to Groundwater Pathway RCL[6]	Non-Industrial Direct Contact Pathway RCL[6]	Industrial Direct Contact Pathway RCL[6]	Background Threshold Value	B-7 (0'-3')	B-8 (0'-3')	B-8 (3'-5')	B-9 (0'-2')	B-9 (2'-4')	B-10 (0'-3')	B-10 (3'-6')	B-11 (0'-2')	B-11 (2'-6')	B-12 (0'-4')
Sample Date						3/6/2019	3/6/2019	3/6/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019	3/7/2019
% Moisture	wt%	NS	NS	NS	NS	11.1	6.1	10.5	9.7	9.9	13.3	12.7	15.6	13.3	13.8
VOCs															
1,1,1,2-Tetrachloroethane	mg/kg	0.0534	2.78	12.3	NS	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
1,1,1-Trichloroethane	mg/kg	0.1402	640	640	NS	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
1,1,2,2-Tetrachloroethane	mg/kg	0.0002	0.81	3.6	NS	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
1,1,2-Trichloroethane	mg/kg	0.0032	1.59	7.01	NS	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
1,1-Dichloroethane	mg/kg	0.4834	5.06	22.2	NS	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034
1,1-Dichloroethene	mg/kg	0.005	320	1,190	NS	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
1,2,3-Trichlorobenzene	mg/kg	NS	62.6	934	NS	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066
1,2,4-Trichlorobenzene	mg/kg	0.408	24	113	NS	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064	< 0.064
1,2,4-Trimethylbenzene	mg/kg	1.3787	219	219	NS	< 0.025	0.036	< 0.025	< 0.025	0.037	< 0.025	< 0.025	< 0.025	0.08	0.058
1,3,5-Trimethylbenzene	mg/kg		182	182	NS	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	0.038	0.035
1,2-Dibromo-3-chloropropane	mg/kg	0.0002	0.008	0.092	NS	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
1,2-Dichlorobenzene	mg/kg	1.1680	376	376	NS	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
1,2-Dichloroethane	mg/kg	0.0028	0.652	2.87	NS	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
1,2-Dichloropropane	mg/kg	0.0033	3.4	15	NS	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
1,3-Dichlorobenzene	mg/kg	1.1528	297	297	NS	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037
1,3-Dichloropropane	mg/kg	NS	1,490	1,490	NS	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
1,4-Dichlorobenzene	mg/kg	0.144	3.74	16.4	NS	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037
2-Chlorotoluene	mg/kg	NS	907	907	NS	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
4-Chlorotoluene	mg/kg	NS	253	253	NS	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Benzene	mg/kg	0.0051	1.6	7.07	NS	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Bromobenzene	mg/kg	NS	342	679	NS	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Bromodichloromethane	mg/kg	0.0003	0.418	1.83	NS	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074
Bromoform	mg/kg	0.0023	25.4	113	NS	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
Carbon Tetrachloride	mg/kg	0.0039	0.916	4.03	NS	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Chlorobenzene	mg/kg	0.1358	370	761	NS	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Chloroethane	mg/kg	0.2266	NS	NS	NS	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091
Chloroform	mg/kg	0.0033	0.454	1.98	NS	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
Chloromethane	mg/kg	0.0155	159	669	NS	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
cis-1,2-Dichloroethene	mg/kg	0.0412	156	2,340	NS	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
cis-1,3-Dichloropropene	mg/kg	0.0003	1,210	1,210	NS	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039
trans-1,3-Dichloropropene	mg/kg		1,510	1,510	NS	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Dibromochloromethane	mg/kg	0.032	8.28	38.9	NS	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Dichlorodifluoromethane	mg/kg	3.0863	126	530	NS	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048
Di-isopropyl ether	mg/kg	NS	2,260	2,260	NS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
EDB (1,2-Dibromoethane)	mg/kg	0.0000282	0.05	0.221	NS	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
Ethylbenzene	mg/kg	1.57	8.02	35.4	NS	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035
Hexachlorobutadiene	mg/kg	0.0252	1.63	7.19	NS	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
Isopropylbenzene	mg/kg	NS	NS	NS	NS	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034
m&p-Xylene	mg/kg	3.96	388	388	NS	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072
o-Xylene	mg/kg		434	434	NS	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044
Methyl tert-butyl ether (MTBE)	mg/kg	0.027	63.8	282	NS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylene chloride	mg/kg	0.0026	61.8	1,150	NS	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Naphthalene	mg/kg	0.6582	5.52	24.1	NS	< 0.094	***0.82***	< 0.094	< 0.094	0.106	< 0.094	< 0.094	< 0.094	**21.8**	< 0.094
n-Butylbenzene	mg/kg	NS	108	108	NS	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
n-Propylbenzene	mg/kg	NS	264	NS	NS	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
p-Isopropyltoluene	mg/kg	NS	162	162	NS	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029
sec-Butylbenzene	mg/kg	NS	145	145	NS	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
tert-Butylbenzene	mg/kg	NS	183	183	NS	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026
Tetrachloroethene	mg/kg	0.0045	33	145	NS	< 0.032	< 0.032	***0.036***	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Toluene	mg/kg	1.1072	818	818	NS	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
trans-1,2-Dichloroethene	mg/kg	0.0626	1,560	1,850	NS	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028
Trichloroethene (TCE)	mg/kg	0.0036	1.3	8.41	NS	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041
Trichlorofluoromethane	mg/kg	4.4775	1,230	1,230	NS	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041
Vinyl Chloride	mg/kg	0.0001	0.067	2.08	NS	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
PAHs / SVOCs															
1-Methylnaphthalene	mg/kg	NS	17.6	72.7	NS	0.056	0.202	0.048	0.117	0.096	0.0199	0.15	0.0301	2.72	0.067
2-Methylnaphthalene	mg/kg	NS	239	3,010	NS	0.065	0.239	0.057	0.132	0.135	0.0202	0.219	0.041	4.7	0.075
Acenaphthene	mg/kg	NS	3,590	45,200	NS	0.107	0.5	0.105	0.87	0.34	0.039	0.41	0.177	11.8	0.12
Acenaphthylene	mg/kg	NS	NS	NS	NS	0.083	0.295	0.084	0.164	0.107	0.046	0.162	0.039	0.45	0.109
Anthracene	mg/kg	196.9492	17,900	100,000	NS	0.33	1.65	0.308	2.1	0.68	0.14	1.37	0.304	12.4	0.38
Benzo (a) anthracene	mg/kg	NS	1.14	20.8	NS	**1.16**	**2.89**	0.9	**6.7**	**2.01**	0.57	**4.6**	0.8	**12.8**	**1.2**
Benzo (a) pyrene	mg/kg	0.47	0.115	2.11	NS	**1.49**	**3.2**	**1.17**	**6.9**	**2.59**	**0.69**	**4.6**	**0.86**	**10.2**	**1.58**
Benzo (b) fluoranthene	mg/kg	0.4781	1.15	21.1	NS	**2.16**	**4.4**	**1.78**	**9.6**	**4.1**	***1.08***	**6.3**	**1.33**	**15.2**	**2.55**
Benzo (ghi) perylene	mg/kg	NS	NS	NS	NS	0.86	1.6	0.63	4.8	1.22	0.35	2.96	0.4	6	0.84
Benzo (k) fluoranthene	mg/kg	NS	11.5	211	NS	0.73	1.41	0.54	3.2	1.18	0.32	2.04	0.44	4.8	0.81
Chrysene	mg/kg	0.1442	115	2,110	NS	***1.35***	***3.2***	***1.07***	***6.6***	***2.36***	***0.65***	***4.6***	***0.85***	***12.5***	***1.34***
Dibenzo (a,h) anthracene	mg/kg	NS	0.115	2.11	NS	**0.229**	**0.48**	**0.177**	**1.26**	**0.38**	0.098	**0.79**	**0.117**	**1.64**	**0.235**
Fluoranthene	mg/kg	88.8778	2,390	30,100	NS	2.28	5.7	2.03	13.7	4.3	1.25	9.6	1.82	48	2.37
Fluorene	mg/kg	14.8299	2,390	30,100	NS	0.126	0.73	0.116	0.76	0.296	0.048	0.42	0.166	9.5	0.147
Indeno (1,2,3-cd) pyrene	mg/kg	NS	1.15	21.1	NS	0.82	**1.56**	0.59	**4.4**	**1.28**	0.33	**2.75**	0.39	**5.7**	0.83
Naphthalene	mg/kg	0.6582	5.52	24.1	NS	0.091	0.254	0.057	0.156	0.13	0.0206	0.109	0.048	**15.8**	0.091
Phenanthrene	mg/kg	NS	NS	NS	NS	1.2	5	1.22	6.7	2.5	0.57	4.4	1.21	45	1.22
Pyrene	mg/kg	54.5455	1,790	22,600	NS	2.05	5.5	1.71	13.6	3.7	1.07	8.1	1.49	32	2.13
PCBs															
PCB-1016	mg/kg	NS	4.11	28	NS	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035
PCB-1221	mg/kg	NS	0.213	0.883	NS	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054
PCB-1232	mg/kg	NS	0.19	0.792	NS	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
PCB-1242	mg/kg	NS	0.235	0.972	NS	< 0.0032	0.16	0.056	**0.317**	0.145	0.0061	0.024	< 0.0032	0.074	0.072
PCB-1248	mg/kg	NS	0.236	0.975	NS	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
PCB-1254	mg/kg	NS	0.239	0.988	NS	< 0.0047	0.06	0.035	0.227	0.106	0.0098	0.038	< 0.0047	0.217	0.064
PCB-1260	mg/kg	NS	0.243	1	NS	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
Metals															
Arsenic	mg/kg	0.584	0.677	3	8	3.16	3.71	2.51	3.27	1.94	4.01	2.63	4.73	3.08	3.75
Barium	mg/kg	164.8	15,300	100,000	364	42.9	66.8	51.5	137	49.1	121	53.4	62.3	100	67.1
Cadmium	mg/kg	0.752	71.1	985	1	0.649	0.556	0.604	***1.33***	0.901	0.294	0.451	0.222	***1.66***	0.493
Chromium	mg/kg	360,000	NS	NS	44	19.9	23.7	13.6	50.7	58.9	18.5	26.6	21.4	28.5	27.6
Lead	mg/kg	27	400	800	52	**116**	**128**	**122**	**331**	**342**	**227**	**259**	20.6	**260**	***75.9***
Mercury	mg/kg	0.208	3.13	3.13	NS	0.19	***0.719***	***0.402***	***1.27***	***2.76***	0.145	***0.541***	0.037	***0.802***	0.173
Selenium	mg/kg	0.52	391	5,840	NS	< 0.62	< 0.62	***1.43***	< 0.62	< 0.62	***1.29***	< 0.62	< 0.62	***1.34***	***1.02***
Silver	mg/kg	0.8491	391	5,840	NS	0.17	< 0.12	0.143	0.539	0.563	< 0.12	0.213	< 0.12	0.219	< 0.12

Notes:
1. Soil samples were collected by GZA, GeoEnvironmental Inc. The sample collection depths are recorded as feet below ground surface (bgs).
2. Results are provided in instrument units (IU), milligrams per kilogram (mg/kg), micrograms per kilogram (µg/kg), or milligrams per liter (mg/L) as indicated.
3. Residual Contaminant Levels (RCLs) were obtained from the RCL spreadsheet (updated December 2018) available on the following Wisconsin Department of Natural Resources (WDNR) website: http://dnr.wi.gov/topic/Brownfields/Professionals.html. The spreadsheet was prepared by WDNR staff using the U.S. EPA's Regional Screening Level (RSL) Web-Calculator.
4. "NS" = No RCL was provided in the WDNR RCL spreadsheet for the parameter.
5. All compounds analyzed are presented.
6. ***Bold italicized*** concentrations indicate an exceedance of the Soil to Groundwater Pathway RCL. Concentrations in ***red font*** indicate an exceedance of the Non-Industrial Direct Contact RCL. The direct contact RCLs are applicable to samples collected at depths 0 to 4 feet below ground surface.
7. "<" indicates the parameter was detected in the sample at a concentration below the method detection limit (MDL).
8. J flagged results indicate that the analyte was detected between the MDL and the limit of detection/quantification. These results are considered an estimate.
9.

PID	Photoionization Detector
VOCs	Volatile Organic Compounds
PAHs	Polycyclic Aromatic Hydrocarbons

FIGURES

Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

0 1,000 2,000 4,000

SCALE IN FEET

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NO.	ISSUE / DESCRIPTION	BY	DATE

VACANT LOT - FIFTH WARD
200 EAST GREENFIELD AVENUE
MILWAUKEE, WISCONSIN

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

PREPARED FOR:
REDEVELOPMENT AUTHORITY OF THE CITY OF MILWAUKEE

SITE LOCATION

PROJ MGR: HAW	REVIEWED BY: JFD	CHECKED BY: HAW	FIG
DESIGNED BY: HAW	DRAWN BY: KLK	SCALE: 1 in = 2,000 ft	1
DATE: 04/01/2019	PROJECT NO: 20.0156044.00	REVISION NO:	SHEET NO:

© 2019 - GZA GeoEnvironmental, Inc. \\GZAWAUKESHA\Jobs\156000to156999\156044\Fill Evaluation Report\Figures\20.0156044 Site Location.mxd, April 01, 2019 - 8:59:17 AM, madeline.salo

© 2019 - GZA GeoEnvironmental, Inc. J:\156000to156999\156044\Figures\20.0156044.00 Soil Boring Location Map.mxd, April 16, 2019 - 11:41:38 AM, janee.pederson

NOTES

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0 25 50 100
SCALE IN FEET

VACANT LOT - FIFTH WARD
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MILWAUKEE, WISCONSIN

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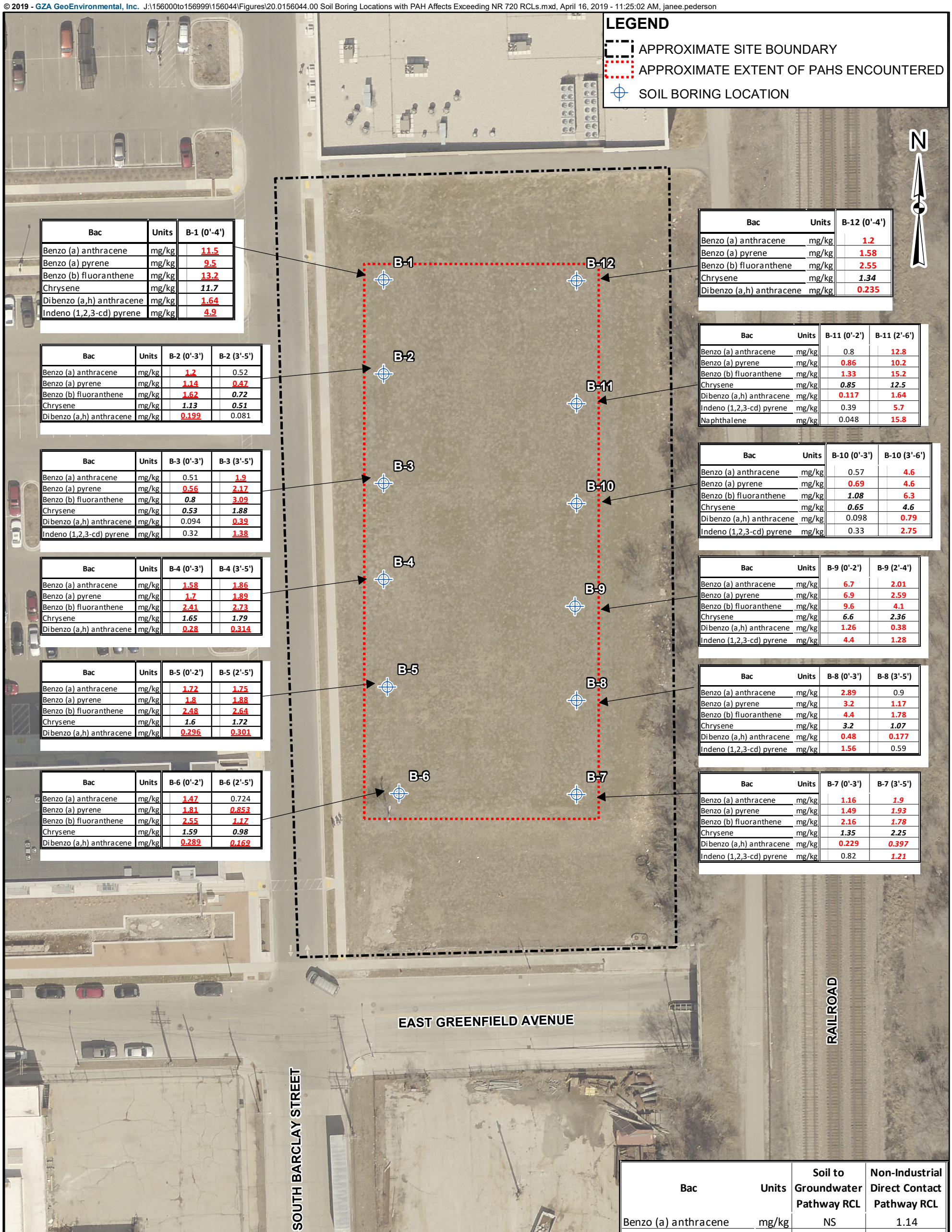
PREPARED FOR:
REDEVELOPMENT AUTHORITY
OF THE CITY OF MILWAUKEE

SOIL BORING LOCATION PLAN

PROJ MGR:	JDG	REVIEWED BY:	JFD	CHECKED BY:	PJH	FIG	2
DESIGNED BY:	JDG	DRAWN BY:	KLK	SCALE:	1 in = 50 ft		
DATE: 04/16/2019		PROJECT NO: 20.0156044.10		REVISION NO:		SHEET NO:	OF

© 2019 - GZA GeoEnvironmental, Inc. J:\156000to156999\156044\Figures\20.0156044.00 Soil Boring Locations with PAH Affects Exceeding NR 720 RCLs.mxd, April 16, 2019 - 11:25:02 AM, janee.pederson



Bac	Units	B-1 (0'-4')
Benzo (a) anthracene	mg/kg	11.5
Benzo (a) pyrene	mg/kg	9.5
Benzo (b) fluoranthene	mg/kg	13.2
Chrysene	mg/kg	11.7
Dibenzo (a,h) anthracene	mg/kg	1.64
Indeno (1,2,3-cd) pyrene	mg/kg	4.9

Bac	Units	B-2 (0'-3')	B-2 (3'-5')
Benzo (a) anthracene	mg/kg	1.2	0.52
Benzo (a) pyrene	mg/kg	1.14	0.47
Benzo (b) fluoranthene	mg/kg	1.62	0.72
Chrysene	mg/kg	1.13	0.51
Dibenzo (a,h) anthracene	mg/kg	0.199	0.081

Bac	Units	B-3 (0'-3')	B-3 (3'-5')
Benzo (a) anthracene	mg/kg	0.51	1.9
Benzo (a) pyrene	mg/kg	0.56	2.17
Benzo (b) fluoranthene	mg/kg	0.8	3.09
Chrysene	mg/kg	0.53	1.88
Dibenzo (a,h) anthracene	mg/kg	0.094	0.39
Indeno (1,2,3-cd) pyrene	mg/kg	0.32	1.38

Bac	Units	B-4 (0'-3')	B-4 (3'-5')
Benzo (a) anthracene	mg/kg	1.58	1.86
Benzo (a) pyrene	mg/kg	1.7	1.89
Benzo (b) fluoranthene	mg/kg	2.41	2.73
Chrysene	mg/kg	1.65	1.79
Dibenzo (a,h) anthracene	mg/kg	0.28	0.314

Bac	Units	B-5 (0'-2')	B-5 (2'-5')
Benzo (a) anthracene	mg/kg	1.72	1.75
Benzo (a) pyrene	mg/kg	1.8	1.88
Benzo (b) fluoranthene	mg/kg	2.48	2.64
Chrysene	mg/kg	1.6	1.72
Dibenzo (a,h) anthracene	mg/kg	0.296	0.301

Bac	Units	B-6 (0'-2')	B-6 (2'-5')
Benzo (a) anthracene	mg/kg	1.47	0.724
Benzo (a) pyrene	mg/kg	1.81	0.853
Benzo (b) fluoranthene	mg/kg	2.55	1.17
Chrysene	mg/kg	1.59	0.98
Dibenzo (a,h) anthracene	mg/kg	0.289	0.169

Bac	Units	B-12 (0'-4')
Benzo (a) anthracene	mg/kg	1.2
Benzo (a) pyrene	mg/kg	1.58
Benzo (b) fluoranthene	mg/kg	2.55
Chrysene	mg/kg	1.34
Dibenzo (a,h) anthracene	mg/kg	0.235

Bac	Units	B-11 (0'-2')	B-11 (2'-6')
Benzo (a) anthracene	mg/kg	0.8	12.8
Benzo (a) pyrene	mg/kg	0.86	10.2
Benzo (b) fluoranthene	mg/kg	1.33	15.2
Chrysene	mg/kg	0.85	12.5
Dibenzo (a,h) anthracene	mg/kg	0.117	1.64
Indeno (1,2,3-cd) pyrene	mg/kg	0.39	5.7
Naphthalene	mg/kg	0.048	15.8

Bac	Units	B-10 (0'-3')	B-10 (3'-6')
Benzo (a) anthracene	mg/kg	0.57	4.6
Benzo (a) pyrene	mg/kg	0.69	4.6
Benzo (b) fluoranthene	mg/kg	1.08	6.3
Chrysene	mg/kg	0.65	4.6
Dibenzo (a,h) anthracene	mg/kg	0.098	0.79
Indeno (1,2,3-cd) pyrene	mg/kg	0.33	2.75

Bac	Units	B-9 (0'-2')	B-9 (2'-4')
Benzo (a) anthracene	mg/kg	6.7	2.01
Benzo (a) pyrene	mg/kg	6.9	2.59
Benzo (b) fluoranthene	mg/kg	9.6	4.1
Chrysene	mg/kg	6.6	2.36
Dibenzo (a,h) anthracene	mg/kg	1.26	0.38
Indeno (1,2,3-cd) pyrene	mg/kg	4.4	1.28

Bac	Units	B-8 (0'-3')	B-8 (3'-5')
Benzo (a) anthracene	mg/kg	2.89	0.9
Benzo (a) pyrene	mg/kg	3.2	1.17
Benzo (b) fluoranthene	mg/kg	4.4	1.78
Chrysene	mg/kg	3.2	1.07
Dibenzo (a,h) anthracene	mg/kg	0.48	0.177
Indeno (1,2,3-cd) pyrene	mg/kg	1.56	0.59

Bac	Units	B-7 (0'-3')	B-7 (3'-5')
Benzo (a) anthracene	mg/kg	1.16	1.9
Benzo (a) pyrene	mg/kg	1.49	1.93
Benzo (b) fluoranthene	mg/kg	2.16	1.78
Chrysene	mg/kg	1.35	2.25
Dibenzo (a,h) anthracene	mg/kg	0.229	0.397
Indeno (1,2,3-cd) pyrene	mg/kg	0.82	1.21

Bac	Units	Soil to Groundwater Pathway RCL	Non-Industrial Direct Contact Pathway RCL
Benzo (a) anthracene	mg/kg	NS	1.14
Benzo (a) pyrene	mg/kg	0.47	0.115
Benzo (b) fluoranthene	mg/kg	0.4781	1.15
Chrysene	mg/kg	0.1442	115
Dibenzo (a,h) anthracene	mg/kg	NS	0.115
Indeno (1,2,3-cd) pyrene	mg/kg	NS	1.15
Naphthalene	mg/kg	0.6582	5.52

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0 25 50 100
SCALE IN FEET

VACANT LOT - FIFTH WARD
200 EAST GREENFIELD AVENUE
MILWAUKEE, WISCONSIN

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

PREPARED FOR:
REDEVELOPMENT AUTHORITY
OF THE CITY OF MILWAUKEE

SOIL BORING LOCATIONS WITH PAHS EXCEEDING NR 720 RCLS

PROJ MGR:	HAW	REVIEWED BY:	JFD	CHECKED BY:	JFD	FIG
DESIGNED BY:	HAW	DRAWN BY:	KLK	SCALE:	1 in = 50 ft	3
DATE:	04/16/2019	PROJECT NO:	20.0156044.00	REVISION NO:		SHEET NO:

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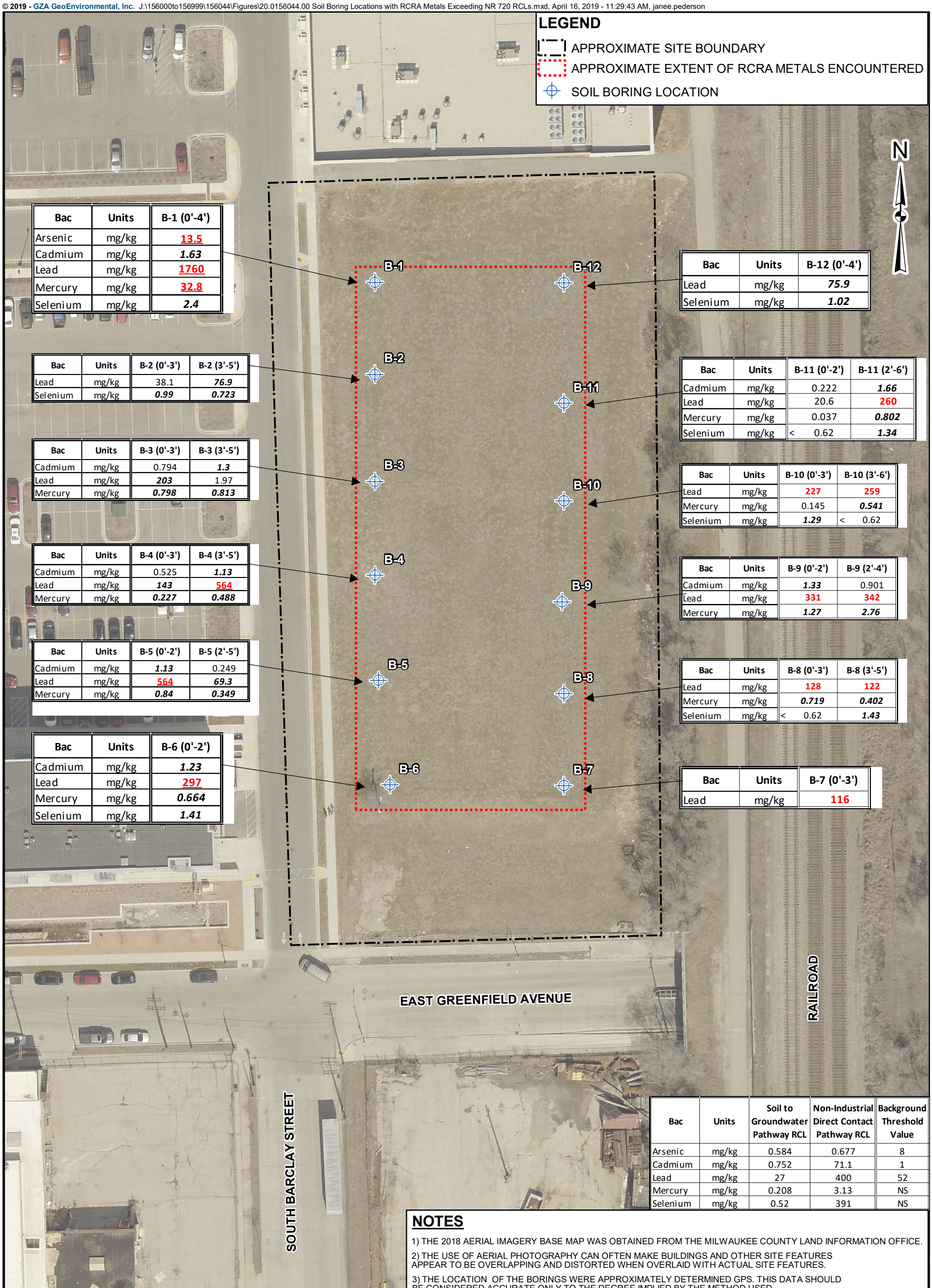

Bac	Units	B-1 (0'-4')
Arsenic	mg/kg	13.5
Cadmium	mg/kg	1.63
Lead	mg/kg	1760
Mercury	mg/kg	32.8
Selenium	mg/kg	2.4

Bac	Units	B-2 (0'-3')	B-2 (3'-5')
Lead	mg/kg	38.1	76.9
Selenium	mg/kg	0.99	0.723

Bac	Units	B-3 (0'-3')	B-3 (3'-5')
Cadmium	mg/kg	0.794	1.3
Lead	mg/kg	203	1.97
Mercury	mg/kg	0.798	0.813

Bac	Units	B-4 (0'-3')	B-4 (3'-5')
Cadmium	mg/kg	0.525	1.13
Lead	mg/kg	143	564
Mercury	mg/kg	0.227	0.488

Bac	Units	B-5 (0'-2')	B-5 (2'-5')
Cadmium	mg/kg	1.13	0.249
Lead	mg/kg	564	69.3
Mercury	mg/kg	0.84	0.349

Bac	Units	B-6 (0'-2')
Cadmium	mg/kg	1.23
Lead	mg/kg	297
Mercury	mg/kg	0.664
Selenium	mg/kg	1.41

Bac	Units	B-12 (0'-4')
Lead	mg/kg	75.9
Selenium	mg/kg	1.02

Bac	Units	B-11 (0'-2')	B-11 (2'-6')
Cadmium	mg/kg	0.222	1.66
Lead	mg/kg	20.6	260
Mercury	mg/kg	0.037	0.802
Selenium	mg/kg	< 0.62	1.34

Bac	Units	B-10 (0'-3')	B-10 (3'-6')
Lead	mg/kg	227	259
Mercury	mg/kg	0.145	0.541
Selenium	mg/kg	1.29	< 0.62

Bac	Units	B-9 (0'-2')	B-9 (2'-4')
Cadmium	mg/kg	1.33	0.901
Lead	mg/kg	331	342
Mercury	mg/kg	1.27	2.76

Bac	Units	B-8 (0'-3')	B-8 (3'-5')
Lead	mg/kg	128	122
Mercury	mg/kg	0.719	0.402
Selenium	mg/kg	< 0.62	1.43

Bac	Units	B-7 (0'-3')
Lead	mg/kg	116

Bac	Units	Soil to Groundwater Pathway RCL	Non-Industrial Direct Contact Pathway RCL	Background Threshold Value
Arsenic	mg/kg	0.584	0.677	8
Cadmium	mg/kg	0.752	71.1	1
Lead	mg/kg	27	400	52
Mercury	mg/kg	0.208	3.13	NS
Selenium	mg/kg	0.52	391	NS

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0 25 50 100
SCALE IN FEET

VACANT LOT - FIFTH WARD
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MILWAUKEE, WISCONSIN

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

PREPARED FOR:
REDEVELOPMENT AUTHORITY
OF THE CITY OF MILWAUKEE

SOIL BORING LOCATIONS WITH RCRA METALS EXCEEDING NR 720 RCLS

PROJ MGR:	HAW	REVIEWED BY:	JFD	CHECKED BY:	JFD
DESIGNED BY:	HAW	DRAWN BY:	KLK	SCALE:	1 in = 50 ft
DATE:	04/16/2019	PROJECT NO:	20.0156044.00	REVISION NO:	

FIG
4
SHEET NO:

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Bac	Units	Soil to Groundwater Pathway RCL	Non-Industrial Direct Contact Pathway RCL	B-9 (0'-2')
PCB-1242	mg/kg	NS	0.235	0.317

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0 25 50 100
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VACANT LOT - FIFTH WARD
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MILWAUKEE, WISCONSIN

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

PREPARED FOR:
REDEVELOPMENT AUTHORITY
OF THE CITY OF MILWAUKEE

SOIL BORING LOCATIONS WITH PCBS EXCEEDING NR 720 RCLS

PROJ MGR:	HAW	REVIEWED BY:	JFD	CHECKED BY:	JFD	FIG	5
DESIGNED BY:	HAW	DRAWN BY:	JJLP	SCALE:	1 in = 50 ft		
DATE:	04/16/2019	PROJECT NO:	20.0156044.00	REVISION NO:		SHEET NO:	

ATTACHMENT 1

Limitations

LIMITATIONS

USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

ATTACHMENT 2

Soil Boring Logs

GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 1

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/6/19 **COMPLETED** 3/6/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/6/19	N/A	N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: FROZEN SAMPLE Upper 4": FILL CAP SOILS) Hard, lean CLAY (CL), low plasticity; little Sand, fine-grained; brown, moist Middle 6": FILL 1) Dense, silty SAND (SM), fine to medium-grained; organic rich; black, moist Lower 2": FILL 1) Wood debris with some sand		SS S-1 (0-2)	12	6-16-18 (34)		0					
2.5		S-2: Upper 7": FILL 1) Medium dense, silty SAND (SM), fine to medium-grained; organic rich; some wood debris; black, moist Lower 3": FILL 1) Stiff, silty CLAY (CL-ML), low plasticity; olive-green, moist		SS S-2 (2-4)	10	10-8-8 (16)		0					
5.0		S-3: FILL 2) Medium dense, silty SAND (SM), fine to medium-grained; olive-gray; moist		SS S-3 (4-5)	12	6-5- (11)		0					

End of Boring at 5 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

GEOTECH BH COLUMNS W/ REMARKS - GINT STD US LAB.GDT - 4/1/19 11:10 - J:\GEOTECH PROJECTS\GINT PROJECT DATABASES\20.0156044.10 GREENFIELD SITE (MARCH 2019).GPJ

GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 2

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/6/19 **COMPLETED** 3/7/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/7/19	AD	13.75'	N/A	20 min

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: FROZEN SAMPLE Upper 4": CLAY CAP) Hard, lean CLAY (CL), low plasticity; brown, moist Lower 14": FILL 1) Hard, silty CLAY (CL-ML), low plasticity; some Gravel, fine; brown, moist		SS S-1 (0-2)	18	14-34-25 (55)		0.9					
2.5		S-2: Upper 6": FILL 1) Dense, silty SAND (SM), fine to medium-grained; some Gravel, fine; brown, moist Lower 6": FILL 2) Dense, silty FOUNDRY SAND (SM), fine to medium-grained; some charred material; black, moist		SS S-2 (2-4)	12	16-25-24 (49)		2.9					
5.0		S-3: FILL 2) Dense, silty FOUNDRY SAND (SM), fine to medium-grained; black, moist		SS S-3 (4-5)	8	14-22- (22+)		0					
7.5		S-4: FILL 2) Soft, lean CLAY with SAND (CL), low plasticity; reddish-brown, wet	1	SS S-4 (8.5-10)	15	4-2-3 (5)	0.5		18.0	30	17	13	
10.0		S-5: FILL 2) Loose, silty SAND (SM), fine to medium-grained; organic rich; dark gray to black, wet		SS S-5 (11-12.5)	4	2-3-3 (6)							

REMARKS

1. 1. Sand content increases with depth. Possible fill.

(Continued Next Page)

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 2

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
12.5		S-6: Upper 14": Loose, poorly-graded SAND (SP), fine to medium-grained; trace Gravel, fine; trace Silt: gray, wet Lower 4": Loose, silty SAND (SM), fine to medium-grained; trace Gravel, fine; gray, wet		SS S-6 (13.5-15)	18	2-3-5 (8)			18.9				3
15.0													
17.5		S-7: PEAT, brown to black, moist to wet		SS S-7 (18.5-20)	9	3-4-5 (9)							
20.0		End of Boring at 20 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.											

REMARKS

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 3

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/6/19 **COMPLETED** 3/6/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/6/19	N/A	N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: FROZEN SAMPLE Upper 12": FILL CAP SOILS) Hard, lean CLAY (CL), low plasticity; trace roots; little charred wood debris; brown, moist Lower 3": FILL 1) Hard, silty CLAY (CL-ML), low plasticity; some Gravel, fine-grained; brown, moist	1	SS S-1 (0-2)	15	9-6-6 (12)		See remark number 1.					
2.5		S-2: Upper 10": FILL 1) Medium dense, silty SAND (SM), medium-grained; little wood debris; black, moist Lower 4": FILL 2) Hard, lean CLAY (CL), low plasticity; some Cream City Brick fragments, brown; moist	2	SS S-2 (2-4)	14	10-10-15 (25)		See remark number 2.					
5.0		S-3: Upper 8": FILL 2) Hard, silty CLAY (CL-ML), low plasticity; trace roots; brown, moist Lower 4": Pulverized rock; white		SS S-3 (4-5)	12	21-25-(25+)		0					

End of Boring at 5 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

1. 1. PID measurement was taken on soil from 0-3 feet bgs. Field test data from 0-3 feet bgs was 0 ppm.
2. 2. PID measurement was taken on soil from 3-4 feet bgs. Field test data from 3-4 feet bgs was 0 ppm.

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 4

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/6/19 **COMPLETED** 3/6/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/6/19	N/A	N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: FROZEN SAMPLE Upper 9": CLAY CAP) Hard, lean CLAY (CL), low plasticity; organic-rich; trace roots; brown, moist Lower 3": FILL 1) Hard, lean CLAY (CL), low plasticity; organic-rich; brown, moist	1	SS S-1 (0-2)	12	5-6-3 (9)		See remark number 1.					
2.5		S-2: Upper 8": FILL 1) Very dense, silty SAND (SM), medium-grained; brown to black, moist Middle 6": FILL 2) Very dense, poorly-graded SAND and GRAVEL (SP), fine to medium-grained; moist Lower 2": FILL 2) Very dense, silty SAND (SM), medium-grained; black, moist	2	SS S-2 (2-4)	16	9-40-28 (68)		See remark number 2.					
5.0		S-3: FILL 2) Dense, silty SAND (SM), medium-grained; black, moist		SS S-3 (4-5)	9	15-25-(25+)		0.4					

End of Boring at 5 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

1. 1. PID measurement was taken on soil from 0-3 feet bgs. Field test data from 0-3 feet bgs was 0.3 ppm.
2. 2. PID measurement was taken on soil from 3-4 feet bgs. Field test data from 3-4 feet bgs was 2.7 ppm.

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
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(262) 754-2560

BORING NUMBER B- 5

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/6/19 **COMPLETED** 3/6/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/6/19	N/A	N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: FROZEN SAMPLE CLAY CAP/FILL 1) Hard, lean CLAY (CL), low plasticity; trace Gravel, fine-grained; trace Sand, fine to medium; little organics; trace roots; brown, moist		SS S-1 (0-2)	16	11-12-8 (20)		0					
2.5		S-2: FILL 2) Dense, poorly-graded SAND (SP), fine to medium-grained; trace Gravel, fine; brown, moist	1	SS S-2 (2-4)	4	6-12-19 (31)		0.1					
5.0		S-3: FILL 2) Hard, lean CLAY (CL), low plasticity; trace Gravel, fine-grained; trace Sand, fine; brown, moist		SS S-3 (4-5)	12	7-37- (37+)		1.1					

End of Boring at 5 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

1. Rock in shoe.

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 6

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/6/19 **COMPLETED** 3/6/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/6/19	N/A	N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: SLIGHTLY FROZEN Upper 8": CLAY CAP) Hard, lean CLAY (CL), low plasticity; trace Gravel, fine-grained; trace Sand, medium; brown, moist Lower 6": FILL 1) Very stiff, lean CLAY (CL), low plasticity; little Gravel, fine-grained; trace foundry Sand, fine; brown to black, moist		SS S-1 (0-2)	14	6-8-8 (16)		0					
2.5		S-2: FILL 2) Dense, clayey GRAVEL (GC), fine to coarse-grained; some Sand, fine to medium; brown, wet		SS S-2 (2-4)	7	6-4-39 (43)		0.2					
5.0		S-3: FILL 2) Very dense, silty GRAVEL (GM), fine to coarse-grained; gray to brown, dry		SS S-3 (4-6)	2	50/4-- (50+)		0.1					
7.5		S-4: FILL 2) Medium dense, silty SAND (SM), fine to medium-grained; little brick shards; little Gravel, fine; black, moist		SS S-4 (8.5-10)	5	10-13-14 (27)							
10.0		S-5: FILL 2) Medium dense, silty SAND (SM), fine to medium-grained; gray upper 6", black lower 8", wet		SS S-5 (11-12.5)	14	11-9-13 (22)							

REMARKS

(Continued Next Page)

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 6

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
12.5		S-6: Medium dense, poorly graded SAND with SILT (SP-SM), fine to medium grained; trace Gravel, fine; trace shells; brown, wet		SS S-6 (13.5-15)	16	9-10-10 (20)			18.4	NP	NP	NP	5
15.0													
17.5		S-7: Upper 4": Medium dense, poorly-graded SAND with SILT (SP-SM), fine to medium-grained; trace shells; brown, wet Lower 9": Loose, PEAT (PT); trace Sand; dark brown, moist Organic Content by LOI: 62.1%		SS S-7 (18.5-20)	13	2-2-6 (8)			247.5				
20.0													
22.5		S-8: Soft, sandy organic SILT (OL), non-plastic; trace shells, fine; dark brown, wet		SS S-8 (23.5-25)	18	1-2-2 (4)	0.5		94.5	NP	NP	NP	
25.0													

REMARKS

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 6

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
27.5													
30.0		S-9: Stiff, sandy SILT (ML), low plasticity; trace shells; gray, moist		SS S-9 (28.5-30)	18	2-2-3 (5)	1.0						

End of Boring at 30 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 7

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/6/19 **COMPLETED** 3/6/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/6/19	AD	13'	N/A	Overnight

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: Upper 10": CLAY CAP) Frozen; stiff, sandy lean CLAY (CL), low plasticity; brown, dry Lower 9": FILL 1) Medium dense, clayey SAND (SC), fine to coarse-grained; little Gravel, fine; brown to black, moist		SS S-1 (0-2)	19			0.4					
2.5		S-2: FILL 1) Medium dense, clayey SAND (SC), fine to coarse-grained; little Gravel, fine; black (foundry sand)		SS S-2 (2-4)	13			0.3					
5.0		S-3: Upper 6": FILL 2) Medium dense, poorly-graded SAND with SILT (SP-SM), fine to medium-grained; black, wet Lower 7": FILL 2) Medium dense, clayey GRAVEL (GC), fine to coarse-grained; little Sand, fine; dark brown to black, moist		SS S-3 (4-6)	13			0					
7.5		S-4: Upper 6": FILL 2) Stiff, lean CLAY (CL), low to medium plasticity; little Sand, fine-grained; red, moist Lower 8": FILL 2) Medium dense, poorly-graded SAND (SP), fine to medium-grained; brown, dry		SS S-4 (8.5-11)	14		1.5						
10.0		S-5: FILL 2) Medium dense, pooorly-graded SAND with SILT and GRAVEL (SP-SM), fine to medium-grained (foundry sand); little cinders, black, moist		SS S-5 (11-12.5)	16				19.8	NP	NP	NP	10

REMARKS

1. Rock in shoe.

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GEOTECH BH COLUMNS W/ REMARKS - GINT STD US LAB.GDT - 4/1/19 11:10 - J:\GEOTECH PROJECTS\GINT PROJECT DATABASES\20.0156044.10 GREENFIELD SITE (MARCH 2019).GPJ

GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 7

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
12.5													
		S-6: Loose, clayey SAND (SC), fine to coarse-grained; little Gravel, fine; gray to brown, moist		SS S-6 (13.5-15)	17		1.5		15.9				
15.0													
17.5													
		S-7: Upper 4": Loose, poorly graded SAND (SP), fine to medium-grained; trace Silt; wet Lower 2" PEAT, trace Sand, fine-grained; brown to black		SS S-7 (18.5-20)	6				95.3				
20.0													

End of Boring at 20 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

GEOTECH BH COLUMNS W/ REMARKS - GINT STD US LAB.GDT - 4/1/19 11:10 - J:\GEOTECH PROJECTS\GINT PROJECT DATABASES\20.0156044.10 GREENFIELD SITE (MARCH 2019).GPJ

GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 8

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/7/19 **COMPLETED** 3/7/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/6/19	N/A	N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: Upper 8": CLAY CAP) Frozen; hard, lean CLAY (CL), low plasticity; trace Gravel, fine-grained; organic-rich; brown, moist Lower 10": FILL 1) Dense, poorly-graded SAND (SP), fine to coarse-grained; trace foundry Sand, fine; white to brown, moist		SS S-1 (0-2)	18	12-21-19 (40)		0.3					
2.5		S-2: Medium dense, poorly-graded SAND (SP), fine to medium-grained; some Gravel, fine; brown, moist		SS S-2 (2-4)	10	20-8-8 (16)		0					
5.0		S-3: FILL 2) Medium dense, silty SAND (SM), fine to medium-grained; black, moist		SS S-3 (4-5)	12	4-4-22 (26)		0					

End of Boring at 5 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

1. Fill 1 ends at 3 feet bgs. Fill 2 starts at 3 feet bgs.
2. Gravel at bottom.

GEOTECH BH COLUMNS W/ REMARKS - GINT STD US LAB.GDT - 4/1/19 11:10 - J:\GEOTECH PROJECTS\GINT PROJECT DATABASES\20.0156044.10 GREENFIELD SITE (MARCH 2019).GPJ

GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 9

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/7/19 **COMPLETED** 3/7/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/7/19	AD	12.1'	N/A	20 min

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: Upper 13": CLAY CAP) Stiff, lean CLAY (CL), low plasticity; trace Sand, fine-grained; trace roots; brown, moist Lower 7": FILL 1) Dense, clayey SAND (SC), fine to coarse-grained; little Gravel, fine; brown, dry		SS S-1 (0-2)	20	15-19-14 (33)		0.6					
2.5		S-2: FILL 2) Medium dense, clayey SAND (SC), fine to coarse-grained; little Gravel, fine; trace cinders; dark brown, moist		SS S-2 (2-4)	10	7-7-7 (14)		0.6					
5.0		S-3: No recovery.		SS S-3 (4-6)	0	6-8-11 (19)		See remark number 2.					
7.5		S-4: FILL 2) Loose, poorly-graded SAND with SILT (SP-SM), fine to medium-grained, trace Gravel, fine; brown, moist		SS S-4 (8.5-11)	12	4-4-8 (12)			5.6	NP	NP	NP	5
10.0		S-5: FILL 2) Medium dense, poorly-graded sand (SP), fine to medium-grained, trace Silt; trace Gravel, fine; thin layers of foundry sand, fine; brown, moist Bottom 3" wet		SS S-5 (11-13.5)	15	8-10-8 (18)							

REMARKS

1. Rock in shoe.
2. PID reading was not obtained due to no soil recovery.

(Continued Next Page)

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B- 9

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
12.5													
		S-6: Medium stiff, lean CLAY with SAND (CL), low plasticity; lenses of sand present; gray, wet		SS S-6 (13.5-15)	16	5-4-6 (10)	0.75		17.9				
15.0													
		S-7: Wood.		SS S-7 (16.5-17)	5								

End of Boring at 17.5 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

3. Wood appears to be a buried log.

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B-10

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/7/19 **COMPLETED** 3/7/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/7/19	N/A	N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: Upper 7": CLAY CAP) Hard, lean CLAY (CL), low plasticity; trace roots; brown, moist Lower 5": FILL 1) Medium dense, clayey SAND (SC), fine to medium-grained; some Gravel, fine; charred material present; brown, moist	1	SS S-1 (0-2)	12	7-9-9 (18)		See remark number 1.					
2.5		S-2: Upper 12": FILL 1) Hard, lean CLAY (CL), low plasticity; trace Sand, fine to medium-grained; trace Gravel, fine; brown, moist Lower 6": FILL 2) Medium dense, silty SAND (SM), fine to medium-grained; some Gravel, fine; trace foundry Sand, fine; brown, moist	2	SS S-2 (2-4)	18	4-3-18 (21)		See remark number 2.					
5.0		S-3: Upper 10": FILL 2) Hard, lean CLAY (CL), low plasticity; with Sand, fine to medium-grained; trace Gravel, fine; trace roots; brown, moist Middle 7": FILL 2) Dense, poorly-graded SAND (SP), fine to medium-grained; some Gravel, fine; little foundry Sand, fine; wood debris; brown, moist Lower 1": FILL 2) Dense, poorly-graded SAND (SP), fine to medium-grained; brown, moist		SS S-3 (4-6)	18	17-31-18 (49)		1.7					

End of Boring at 6 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

1. 1. PID measurement was taken on soil from 0-3 feet bgs. Field test data from 0-3 feet bgs was 0.6 ppm.
2. 2. PID measurement was taken on soil from 3-4 feet bgs. Field test data from 3-4 feet bgs was 1.8 ppm.

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B-11

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/7/19 **COMPLETED** 3/7/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/7/19	N/A	N/A		

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: Upper 16": CLAY CAP) Hard, lean CLAY (CL), low plasticity; some roots; brown, moist Lower 2": FILL 1) Hard, lean CLAY (CL); trace Sand; light brown, moist (no roots)		SS S-1 (0-2)	18	8-5-5 (10)		0					
2.5		S-2: Upper 4.5": FILL 2) Dense, clayey SAND (SC), fine to medium-grained, little Gravel, fine; trace foundry Sand, fine; brown, moist Lower 1.5": FILL 2) Wood debris, odorous		SS S-2 (2-4)	6	11-27-9 (36)		0.2					
5.0		S-3: Upper 13": FILL 2) Medium dense, clayey SAND (SC), fine to medium-grained; trace roots; trace Grave, fine; trace foundry Sand, fine; wood debris present; brown, moist Middle 1": FILL 2) Pulverized rock Lower 2": FILL 2) Medium dense, poorly-graded SAND (SP), fine to medium-grained; brown, moist		SS S-3 (4-6)	16	8-5-13 (18)		33.8					

End of Boring at 6 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B-12

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave
DATE STARTED 3/7/19 **COMPLETED** 3/7/19
GROUND ELEVATION **HOLE SIZE** 6.25 inches
DRILLING CONTRACTOR Badger State Drilling
DRILLING METHOD 2-1/4 HSA
LOGGED BY JDG/MJS **CHECKED BY** JDG
DRILL RIG

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB
3/7/19	Ad	12.6	N/A	20 min

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		S-1: Upper 10": CLAY CAP) Very stiff, lean CLAY with SAND (CL), low plasticity; trace Gravel, fine-grained; trace organics; brown, moist Lower 4": FILL 1) Medium dense, clayey SAND with GRAVEL (SC), fine to medium-grained; brown, moist		SS S-1 (0-2)	14	6-6-11 (17)	3.0	0.1					
2.5		S-2: FILL 1) Loose, clayey SAND (SC), fine to medium-grained; little Gravel, fine; brown, moist		SS S-2 (2-4)	19	3-4-3 (7)		0.1	12.6				19
5.0		S-3: Upper 9": FILL 2) Medium stiff, sand lean CLAY (CL), low plasticity; little Gravel, fine-grained; brown to black, moist Lower 10": FILL 2) Medium dense, well graded SAND with SILT (SW-SM), fine to coarse-grained; little Gravel, fine; brown, moist		SS S-3 (4-6)	19	3-7-12 (19)	0.5-3.5	0					
7.5		S-4: FILL 2)Medium dense, well graded SAND with SILT (SW-SM), fine to coarse-grained; little Gravel, fine; organic rich; brown, moist	1	SS S-4 (8.5-11)	10	6-8-5 (13)			3.5				
10.0		S-5: FILL 2) Upper 6": Medium dense, silty SAND (SM), fine to coarse-grained; little Gravel, fine; little cinders; trace organics; dark brown, wet FILL 2) Middle 4": Medium dense, well graded SAND (SW), fine to		SS S-5 (11-12.5)	15	8-11-9 (20)							

REMARKS

1. 1. Silt in tip of spoon.

(Continued Next Page)

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B-12

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
12.5		coarse-grained; little Gravel, fine; brown, wet Lower 5": Medium dense, poorly graded SAND with SILT (SP-SM), fine to medium-grained; little organics; gray, wet											
		S-6: Soft, sandy SILT (ML), low plasticity; little organics; gray, wet		SS S-6 (13.5-15)	18	3-2-2 (4)	0.25		17.9				
15.0													
17.5													
		S-7: Stiff, lean CLAY (CL), low plasticity; little Sand, fine-grained; gray, wet		SS S-7 (18.5-20)	18	2-3-4 (7)	1.5		18.7	29	17	12	
20.0													
22.5													
		S-8: Upper 2": Rotting wood. Lower 13": Medium stiff, lean CLAY with SAND (CL), low plasticity; trace Gravel, fine-grained; gray, wet		SS S-8 (23.5-25)	15	3-5-5 (10)	0.75		16.6				79
25.0													

REMARKS

(Continued Next Page)

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GZA GeoEnvironmental, Inc.
20900 Swenson Drive #150
Waukesha, WI 53186
(262) 754-2560

BORING NUMBER B-12

CLIENT City of Milwaukee
PROJECT NAME Freshwater Plaza - Greenfield and 1st
PROJECT NUMBER 20.0156044.10
PROJECT LOCATION 200 East Greenfield Ave

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	SAMPLE TYPE NUMBER (Depth Interval)	RECOVERY (inches)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	PID READING (PPM)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
27.5													
30.0		S-9: Loose, silty SAND (SM), fine to medium-grained; little shells; gray, moist		SS S-9 (28.5-30)	18	3-3-5 (8)							

End of Boring at 30 feet, bgs. Boring backfilled with 3/8 bentonite chips and native soils.

REMARKS

GEOTECH BH COLUMNS W/ REMARKS - GINT STD US LAB.GDT - 4/1/19 11:10 - J:\GEOTECH PROJECTS\GINT PROJECT DATABASES\20.0156044.10 GREENFIELD SITE (MARCH 2019).GPJ

ATTACHMENT 3

Soil Laboratory Analytical Reports and Chain-of-Custody Forms

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

HEIDI WOELFEL
GZA GEOENVIRONMENTAL, INC.
20900 SWENSON DRIVE,
WAUKESHA, WI 53186

Report Date *20-Mar-19*

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849A
Sample ID B-1 0-4
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.5	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	13.5	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	2
Barium, Total	248	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	2 3
Cadmium, Total	1.63	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	16.3	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	1760	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	2 64
Mercury, Total	32.8	mg/kg	0.056	0.186	20	7471		3/12/2019	ESC	2 64
Selenium, Total	2.40 "J"	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	5
Silver, Total	0.493	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	1.68	mg/kg	0.0815	0.27	5	M8270C	3/8/2019	3/12/2019	NJC	1
Acenaphthylene	0.46	mg/kg	0.043	0.145	5	M8270C	3/8/2019	3/12/2019	NJC	1
Anthracene	6.20	mg/kg	0.0215	0.07	5	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(a)anthracene	11.5	mg/kg	0.08	0.265	5	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(a)pyrene	9.50	mg/kg	0.062	0.205	5	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(b)fluoranthene	13.2	mg/kg	0.0545	0.18	5	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(g,h,i)perylene	5.30	mg/kg	0.042	0.14	5	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(k)fluoranthene	4.20	mg/kg	0.0455	0.15	5	M8270C	3/8/2019	3/12/2019	NJC	1
Chrysene	11.7	mg/kg	0.03	0.1	5	M8270C	3/8/2019	3/12/2019	NJC	1
Dibenzo(a,h)anthracene	1.64	mg/kg	0.0505	0.17	5	M8270C	3/8/2019	3/12/2019	NJC	1
Fluoranthene	23.1	mg/kg	0.027	0.09	5	M8270C	3/8/2019	3/12/2019	NJC	1
Fluorene	2.16	mg/kg	0.043	0.145	5	M8270C	3/8/2019	3/12/2019	NJC	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849A
Sample ID B-1 0-4
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Indeno(1,2,3-cd)pyrene	4.90	mg/kg	0.041	0.135	5	M8270C	3/8/2019	3/12/2019	NJC	1
1-Methyl naphthalene	0.292	mg/kg	0.043	0.145	5	M8270C	3/8/2019	3/12/2019	NJC	1
2-Methyl naphthalene	0.28	mg/kg	0.0735	0.245	5	M8270C	3/8/2019	3/12/2019	NJC	1
Naphthalene	0.48	mg/kg	0.0765	0.243	5	M8270C	3/8/2019	3/12/2019	NJC	1
Phenanthrene	19.4	mg/kg	0.0355	0.12	5	M8270C	3/8/2019	3/12/2019	NJC	1
Pyrene	18.8	mg/kg	0.0335	0.11	5	M8270C	3/8/2019	3/12/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/12/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/12/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/12/2019	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		3/12/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/12/2019	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		3/12/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/12/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849A
Sample ID B-1 0-4
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	96	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	110	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849C
Sample ID B-2 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.8	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	2.11	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	97.3	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.209 "J"	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	34.8	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	38.1	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.074	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	5
Selenium, Total	0.99 "J"	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	5
Silver, Total	< 0.12	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.077	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.097	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.33	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	1.20	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	1.14	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	1.62	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	0.71	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.53	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	1.13	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.199	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	2.31	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.093	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	0.66	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.038	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.034 "J"	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.0207 "J"	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	0.89	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	2.06	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/12/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/12/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/12/2019	ESC	1
PCB-1242	0.0133	mg/kg	0.0032	0.0106	1	EPA 8082A		3/12/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/12/2019	ESC	1
PCB-1254	0.0295	mg/kg	0.0047	0.0157	1	EPA 8082A		3/12/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/12/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849C
Sample ID B-2 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	0.108 "J"	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849C
Sample ID B-2 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	0.042 "J"	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	98	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	107	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849D
Sample ID B-2 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.0	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	2.14	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	76.9	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.279	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	21.8	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	76.9	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.083	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	0.723 "J"	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	5
Silver, Total	0.214 "J"	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.038 "J"	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.0294	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.187	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	0.52	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	0.47	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	0.72	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	0.29	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.23	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	0.51	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.081	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	1.10	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.052	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	0.274	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.0292	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.031 "J"	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.0197 "J"	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	0.52	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	0.93	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/12/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/12/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/12/2019	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		3/12/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/12/2019	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		3/12/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/12/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849D
Sample ID B-2 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	0.051 "J"	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849D
Sample ID B-2 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	96	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	95	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	107	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849E
Sample ID B-3 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.2	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.33	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	80.9	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.794	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	34.8	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	203	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.798	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.715	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.075	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.0252 "J"	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.217	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	0.51	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	0.56	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	0.80	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	0.35	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.252	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	0.53	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.094	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	1.03	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.09	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	0.32	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.0223 "J"	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.0257 "J"	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.0252 "J"	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	0.67	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	0.87	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.056	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849E
Sample ID B-3 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

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Lab Code 5035849E
Sample ID B-3 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	109	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	95	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	111	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	96	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849F
Sample ID B-3 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.1	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	2.74	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	98.1	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	1.30	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	26.8	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	1.97	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.813	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.203 "J"	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.169	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.119	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.53	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	1.90	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	2.17	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	3.09	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	1.46	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.98	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	1.88	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.39	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	3.50	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.179	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	1.38	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.085	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.103	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.104	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	1.76	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	3.20	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.118	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.094	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

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Lab Code 5035849F
Sample ID B-3 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	113	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	Rec %			1	8260B		3/14/2019	CJR	1

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Lab Code 5035849G
Sample ID B-4 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.2	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	2.99	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	50.7	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.525	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	25.2	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	143	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.227	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	< 0.12	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.215	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.08	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.74	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	1.58	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	1.70	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	2.41	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	0.98	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.78	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	1.65	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.28	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	3.30	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.304	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	0.96	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.069	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.083	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.075	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	2.27	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	2.69	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.128	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.080	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

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Sample ID B-4 0-3
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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	95	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	108	Rec %			1	8260B		3/14/2019	CJR	1

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Lab Code 5035849H
Sample ID B-4 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.6	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	4.21	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	126	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	1.13	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	48.0	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	564	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.488	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.434	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.38	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.075	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.84	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	1.86	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	1.89	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	2.73	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	1.10	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.84	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	1.79	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.314	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	3.80	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.50	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	1.03	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.156	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.21	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.40	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	2.62	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	3.15	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.131	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.158	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849H
Sample ID B-4 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	0.112 "J"	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849H
Sample ID B-4 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	106	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849I
Sample ID B-5 0-2
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.1	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	4.21	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	126	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	1.13	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	48.0	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	564	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.840	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.434	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.095	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.107	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.42	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	1.72	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	1.80	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	2.48	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	1.11	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.79	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	1.60	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.296	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	2.89	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.115	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	1.02	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.045	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.047 "J"	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.038 "J"	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	1.14	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	2.62	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.070	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849I
Sample ID B-5 0-2
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849I
Sample ID B-5 0-2
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	0.059 "J"	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	97	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	108	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849J
Sample ID B-5 2-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.9	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	4.27	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	52.1	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.249	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	15.9	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	69.3	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.349	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	< 0.12	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.274	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.132	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.70	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	1.75	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	1.88	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	2.64	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	1.08	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.82	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	1.72	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.301	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	3.50	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.34	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	1.03	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.113	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.121	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.151	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	2.31	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	3.03	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.042	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.032	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849J
Sample ID B-5 2-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	0.172 "J"	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849J
Sample ID B-5 2-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	106	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	98	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849K
Sample ID B-6 0-2
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.0	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	5.25	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	107	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	1.23	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	98.0	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	297	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.664	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	1.41 "J"	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.236 "J"	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.161	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.123	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.56	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	1.47	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	1.81	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	2.55	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	1.10	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.77	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	1.59	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.289	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	3.10	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.218	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	1.03	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.111	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.125	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.17	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	1.87	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	2.85	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.066	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.159	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849K
Sample ID B-6 0-2
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849K
Sample ID B-6 0-2
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	95	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	106	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849M
Sample ID B-7 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.9	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.16	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	42.9	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.649	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	19.9	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	116	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.190	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.170 "J"	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.107	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.083	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.33	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	1.16	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	1.49	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	2.16	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	0.86	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.73	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	1.35	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.229	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	2.28	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.126	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	0.82	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.056	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.065	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.091	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	1.20	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	2.05	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849M
Sample ID B-7 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849M
Sample ID B-7 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	109	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849O
Sample ID B-8 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.9	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.71	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	66.8	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.556	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	23.7	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	128	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.719	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	< 0.12	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.50	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.295	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	1.65	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	2.89	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	3.20	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	4.40	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	1.60	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	1.41	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	3.20	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.48	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	5.70	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.73	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	1.56	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.202	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.239	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.254	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	5.00	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	5.50	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.160	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.060	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849O
Sample ID B-8 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	0.82	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849O
Sample ID B-8 0-3
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	0.036 "J"	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	97	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	113	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	93	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849P
Sample ID B-8 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.5	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	2.51	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	51.5	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.604	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	13.6	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	122	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.402	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	1.43	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.143 "J"	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.105	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/8/2019	NJC	1
Acenaphthylene	0.084	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Anthracene	0.308	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)anthracene	0.90	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(a)pyrene	1.17	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(b)fluoranthene	1.78	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(g,h,i)perylene	0.63	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/8/2019	NJC	1
Benzo(k)fluoranthene	0.54	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/8/2019	NJC	1
Chrysene	1.07	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/8/2019	NJC	1
Dibenzo(a,h)anthracene	0.177	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluoranthene	2.03	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/8/2019	NJC	1
Fluorene	0.116	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
Indeno(1,2,3-cd)pyrene	0.59	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/8/2019	NJC	1
1-Methyl naphthalene	0.048	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/8/2019	NJC	1
2-Methyl naphthalene	0.057	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/8/2019	NJC	1
Naphthalene	0.057	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/8/2019	NJC	1
Phenanthrene	1.22	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/8/2019	NJC	1
Pyrene	1.71	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/8/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.056	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.035	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/14/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/14/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849P
Sample ID B-8 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/14/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/14/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/14/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/14/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/14/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/14/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/14/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/14/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/14/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/14/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/14/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/14/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/14/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/14/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/14/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/14/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/14/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/14/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/14/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/14/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/14/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/14/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/14/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/14/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/14/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/14/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/14/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/14/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/14/2019	CJR	1
Tetrachloroethene	0.036 "J"	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/14/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/14/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/14/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/14/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849P
Sample ID B-8 3-5
Sample Matrix Soil
Sample Date 3/6/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/14/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/14/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/14/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/14/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/14/2019	CJR	1
SUR - Dibromofluoromethane	109	Rec %			1	8260B		3/14/2019	CJR	1
SUR - Toluene-d8	92	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			1	8260B		3/14/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	Rec %			1	8260B		3/14/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849Q
Sample ID B-9 0-2
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.3	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.27	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	137	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	1.33	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	50.7	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	331	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	1.27	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.539	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.87	mg/kg	0.0326	0.108	2	M8270C	3/8/2019	3/12/2019	NJC	1
Acenaphthylene	0.164	mg/kg	0.0172	0.058	2	M8270C	3/8/2019	3/12/2019	NJC	1
Anthracene	2.10	mg/kg	0.0086	0.028	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(a)anthracene	6.70	mg/kg	0.032	0.106	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(a)pyrene	6.90	mg/kg	0.0248	0.082	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(b)fluoranthene	9.60	mg/kg	0.0218	0.072	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(g,h,i)perylene	4.80	mg/kg	0.0168	0.056	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(k)fluoranthene	3.20	mg/kg	0.0182	0.06	2	M8270C	3/8/2019	3/12/2019	NJC	1
Chrysene	6.60	mg/kg	0.012	0.04	2	M8270C	3/8/2019	3/12/2019	NJC	1
Dibenzo(a,h)anthracene	1.26	mg/kg	0.0202	0.068	2	M8270C	3/8/2019	3/12/2019	NJC	1
Fluoranthene	13.7	mg/kg	0.0108	0.036	2	M8270C	3/8/2019	3/12/2019	NJC	1
Fluorene	0.76	mg/kg	0.0172	0.058	2	M8270C	3/8/2019	3/12/2019	NJC	1
Indeno(1,2,3-cd)pyrene	4.40	mg/kg	0.0164	0.054	2	M8270C	3/8/2019	3/12/2019	NJC	1
1-Methyl naphthalene	0.117	mg/kg	0.0172	0.058	2	M8270C	3/8/2019	3/12/2019	NJC	1
2-Methyl naphthalene	0.132	mg/kg	0.0294	0.098	2	M8270C	3/8/2019	3/12/2019	NJC	1
Naphthalene	0.156	mg/kg	0.0306	0.0972	2	M8270C	3/8/2019	3/12/2019	NJC	1
Phenanthrene	6.70	mg/kg	0.0142	0.048	2	M8270C	3/8/2019	3/12/2019	NJC	1
Pyrene	13.6	mg/kg	0.0134	0.044	2	M8270C	3/8/2019	3/12/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.317	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.227	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/15/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/15/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849Q
Sample ID B-9 0-2
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/15/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/15/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/15/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/15/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/15/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/15/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/15/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/15/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/15/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/15/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/15/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/15/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/15/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/15/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/15/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/15/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/15/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/15/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/15/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/15/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/15/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/15/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/15/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/15/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/15/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/15/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/15/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849Q
Sample ID B-9 0-2
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/15/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/15/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/15/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/15/2019	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		3/15/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	Rec %			1	8260B		3/15/2019	CJR	1
SUR - 4-Bromofluorobenzene	94	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Dibromofluoromethane	111	Rec %			1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849R
Sample ID B-9 2-4
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.1	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	1.94	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	49.1	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.901	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	58.9	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	342	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	2.76	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.563	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.34	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/9/2019	NJC	1
Acenaphthylene	0.107	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
Anthracene	0.68	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(a)anthracene	2.01	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(a)pyrene	2.59	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(b)fluoranthene	4.10	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(g,h,i)perylene	1.22	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(k)fluoranthene	1.18	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/9/2019	NJC	1
Chrysene	2.36	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/9/2019	NJC	1
Dibenzo(a,h)anthracene	0.38	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/9/2019	NJC	1
Fluoranthene	4.30	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/9/2019	NJC	1
Fluorene	0.296	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
Indeno(1,2,3-cd)pyrene	1.28	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/9/2019	NJC	1
1-Methyl naphthalene	0.096	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
2-Methyl naphthalene	0.135	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/9/2019	NJC	1
Naphthalene	0.13	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/9/2019	NJC	1
Phenanthrene	2.50	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/9/2019	NJC	1
Pyrene	3.70	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/9/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.145	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.106	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/15/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/15/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849R
Sample ID B-9 2-4
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/15/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/15/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/15/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/15/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/15/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/15/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/15/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/15/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/15/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/15/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/15/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/15/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/15/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/15/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/15/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/15/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/15/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/15/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/15/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/15/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/15/2019	CJR	1
Naphthalene	0.106 "J"	mg/kg	0.094	0.3	1	8260B		3/15/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/15/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/15/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/15/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/15/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/15/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849R
Sample ID B-9 2-4
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	0.037 "J"	mg/kg	0.025	0.08	1	8260B		3/15/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/15/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/15/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/15/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	98	Rec %			1	8260B		3/15/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Dibromofluoromethane	109	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849S
Sample ID B-10 0-3
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	4.01	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	121	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.294	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	18.5	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	227	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.145	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	1.29 "J"	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	5
Silver, Total	< 0.12	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.039 "J"	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/9/2019	NJC	1
Acenaphthylene	0.046	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
Anthracene	0.14	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(a)anthracene	0.57	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(a)pyrene	0.69	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(b)fluoranthene	1.08	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(g,h,i)perylene	0.35	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(k)fluoranthene	0.32	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/9/2019	NJC	1
Chrysene	0.65	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/9/2019	NJC	1
Dibenzo(a,h)anthracene	0.098	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/9/2019	NJC	1
Fluoranthene	1.25	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/9/2019	NJC	1
Fluorene	0.048	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
Indeno(1,2,3-cd)pyrene	0.33	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/9/2019	NJC	1
1-Methyl naphthalene	0.0199 "J"	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
2-Methyl naphthalene	0.0202 "J"	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/9/2019	NJC	1
Naphthalene	0.0206 "J"	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/9/2019	NJC	1
Phenanthrene	0.57	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/9/2019	NJC	1
Pyrene	1.07	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/9/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.0061 "J"	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.0098 "J"	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/15/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/15/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849S
Sample ID B-10 0-3
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/15/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/15/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/15/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/15/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/15/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/15/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/15/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/15/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/15/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/15/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/15/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/15/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/15/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/15/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/15/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/15/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/15/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/15/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/15/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/15/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/15/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/15/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/15/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/15/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/15/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/15/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/15/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849S
Sample ID B-10 0-3
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/15/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/15/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/15/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/15/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	109	Rec %			1	8260B		3/15/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Dibromofluoromethane	115	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849T
Sample ID B-10 3-6
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.3	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	2.63	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	53.4	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.451	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	26.6	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	259	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.541	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.213 "J"	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.41	mg/kg	0.0326	0.108	2	M8270C	3/8/2019	3/12/2019	NJC	1
Acenaphthylene	0.162	mg/kg	0.0172	0.058	2	M8270C	3/8/2019	3/12/2019	NJC	1
Anthracene	1.37	mg/kg	0.0086	0.028	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(a)anthracene	4.60	mg/kg	0.032	0.106	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(a)pyrene	4.60	mg/kg	0.0248	0.082	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(b)fluoranthene	6.30	mg/kg	0.0218	0.072	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(g,h,i)perylene	2.96	mg/kg	0.0168	0.056	2	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(k)fluoranthene	2.04	mg/kg	0.0182	0.06	2	M8270C	3/8/2019	3/12/2019	NJC	1
Chrysene	4.60	mg/kg	0.012	0.04	2	M8270C	3/8/2019	3/12/2019	NJC	1
Dibenzo(a,h)anthracene	0.79	mg/kg	0.0202	0.068	2	M8270C	3/8/2019	3/12/2019	NJC	1
Fluoranthene	9.60	mg/kg	0.0108	0.036	2	M8270C	3/8/2019	3/12/2019	NJC	1
Fluorene	0.42	mg/kg	0.0172	0.058	2	M8270C	3/8/2019	3/12/2019	NJC	1
Indeno(1,2,3-cd)pyrene	2.75	mg/kg	0.0164	0.054	2	M8270C	3/8/2019	3/12/2019	NJC	1
1-Methyl naphthalene	0.15	mg/kg	0.0172	0.058	2	M8270C	3/8/2019	3/12/2019	NJC	1
2-Methyl naphthalene	0.219	mg/kg	0.0294	0.098	2	M8270C	3/8/2019	3/12/2019	NJC	1
Naphthalene	0.109	mg/kg	0.0306	0.0972	2	M8270C	3/8/2019	3/12/2019	NJC	1
Phenanthrene	4.40	mg/kg	0.0142	0.048	2	M8270C	3/8/2019	3/12/2019	NJC	1
Pyrene	8.10	mg/kg	0.0134	0.044	2	M8270C	3/8/2019	3/12/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.024	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.038	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/15/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/15/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849T
Sample ID B-10 3-6
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/15/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/15/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/15/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/15/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/15/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/15/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/15/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/15/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/15/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/15/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/15/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/15/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/15/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/15/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/15/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/15/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/15/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/15/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/15/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/15/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/15/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/15/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/15/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/15/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/15/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/15/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/15/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1

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Lab Code 5035849T
Sample ID B-10 3-6
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/15/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/15/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/15/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/15/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	Rec %			1	8260B		3/15/2019	CJR	1
SUR - 4-Bromofluorobenzene	94	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Dibromofluoromethane	110	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849U
Sample ID B-11 0-2
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.4	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	4.73	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	62.3	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.222 "J"	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	21.4	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	20.6	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.037	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	< 0.62	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	< 0.12	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.177	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/9/2019	NJC	1
Acenaphthylene	0.039	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
Anthracene	0.304	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(a)anthracene	0.80	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/9/2019	NJC	3 64
Benzo(a)pyrene	0.86	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/9/2019	NJC	3 64
Benzo(b)fluoranthene	1.33	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/9/2019	NJC	3 64
Benzo(g,h,i)perylene	0.40	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(k)fluoranthene	0.44	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/9/2019	NJC	1
Chrysene	0.85	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/9/2019	NJC	3 64
Dibenzo(a,h)anthracene	0.117	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/9/2019	NJC	1
Fluoranthene	1.82	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/9/2019	NJC	3 64
Fluorene	0.166	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
Indeno(1,2,3-cd)pyrene	0.39	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/9/2019	NJC	1
1-Methyl naphthalene	0.0301	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
2-Methyl naphthalene	0.041 "J"	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/9/2019	NJC	1
Naphthalene	0.048 "J"	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/9/2019	NJC	1
Phenanthrene	1.21	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/9/2019	NJC	3 64
Pyrene	1.49	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/9/2019	NJC	3 64
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	< 0.0047	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/15/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/15/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849U
Sample ID B-11 0-2
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/15/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/15/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/15/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/15/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/15/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/15/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/15/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/15/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/15/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/15/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/15/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/15/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/15/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/15/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/15/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/15/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/15/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/15/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/15/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/15/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/15/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/15/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/15/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/15/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/15/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/15/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/15/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849U
Sample ID B-11 0-2
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/15/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/15/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/15/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/15/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Dibromofluoromethane	110	Rec %			1	8260B		3/15/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849V
Sample ID B-11 2-6
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.08	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	100	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	1.66	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	28.5	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	260	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	5
Mercury, Total	0.802	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	1.34 "J"	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	1
Silver, Total	0.219 "J"	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	11.8	mg/kg	0.163	0.54	10	M8270C	3/8/2019	3/12/2019	NJC	1
Acenaphthylene	0.45	mg/kg	0.086	0.29	10	M8270C	3/8/2019	3/12/2019	NJC	1
Anthracene	12.4	mg/kg	0.043	0.14	10	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(a)anthracene	12.8	mg/kg	0.16	0.53	10	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(a)pyrene	10.2	mg/kg	0.124	0.41	10	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(b)fluoranthene	15.2	mg/kg	0.109	0.36	10	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(g,h,i)perylene	6.00	mg/kg	0.084	0.28	10	M8270C	3/8/2019	3/12/2019	NJC	1
Benzo(k)fluoranthene	4.80	mg/kg	0.091	0.3	10	M8270C	3/8/2019	3/12/2019	NJC	1
Chrysene	12.5	mg/kg	0.06	0.2	10	M8270C	3/8/2019	3/12/2019	NJC	1
Dibenzo(a,h)anthracene	1.64	mg/kg	0.101	0.34	10	M8270C	3/8/2019	3/12/2019	NJC	1
Fluoranthene	48.0	mg/kg	0.054	0.18	10	M8270C	3/8/2019	3/12/2019	NJC	1
Fluorene	9.50	mg/kg	0.086	0.29	10	M8270C	3/8/2019	3/12/2019	NJC	1
Indeno(1,2,3-cd)pyrene	5.70	mg/kg	0.082	0.27	10	M8270C	3/8/2019	3/12/2019	NJC	1
1-Methyl naphthalene	2.72	mg/kg	0.086	0.29	10	M8270C	3/8/2019	3/12/2019	NJC	1
2-Methyl naphthalene	4.70	mg/kg	0.147	0.49	10	M8270C	3/8/2019	3/12/2019	NJC	1
Naphthalene	15.8	mg/kg	0.153	0.486	10	M8270C	3/8/2019	3/12/2019	NJC	1
Phenanthrene	45.0	mg/kg	0.071	0.24	10	M8270C	3/8/2019	3/12/2019	NJC	1
Pyrene	32.0	mg/kg	0.067	0.22	10	M8270C	3/8/2019	3/12/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.074	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.217	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/15/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/15/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849V
Sample ID B-11 2-6
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/15/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/15/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/15/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/15/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/15/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/15/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/15/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/15/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/15/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/15/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/15/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/15/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/15/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/15/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/15/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/15/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/15/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/15/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/15/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/15/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/15/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/15/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/15/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/15/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/15/2019	CJR	1
Naphthalene	21.8	mg/kg	0.94	3	10	8260B		3/18/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/15/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/15/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/15/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/15/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/15/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/15/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/15/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849V
Sample ID B-11 2-6
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	0.08 "J"	mg/kg	0.025	0.08	1	8260B		3/15/2019	CJR	1
1,3,5-Trimethylbenzene	0.038 "J"	mg/kg	0.032	0.1	1	8260B		3/15/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/15/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/15/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/15/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	105	Rec %			1	8260B		3/15/2019	CJR	1
SUR - 4-Bromofluorobenzene	98	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Dibromofluoromethane	113	Rec %			1	8260B		3/15/2019	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		3/15/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849W
Sample ID B-12 0-4
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.2	%			1	5021		3/8/2019	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.75	mg/kg	0.46	1.53	1	6010B		3/13/2019	ESC	1
Barium, Total	67.1	mg/kg	0.17	0.567	1	6010B		3/13/2019	ESC	1
Cadmium, Total	0.493	mg/kg	0.07	0.233	1	6010B		3/13/2019	ESC	1
Chromium, Total	27.6	mg/kg	0.14	0.467	1	6010B		3/13/2019	ESC	1
Lead, Total	75.9	mg/kg	0.19	0.633	1	6010B		3/13/2019	ESC	1
Mercury, Total	0.173	mg/kg	0.0028	0.0093	1	7471		3/12/2019	ESC	1
Selenium, Total	1.02 "J"	mg/kg	0.62	2.07	1	6010B		3/13/2019	ESC	5
Silver, Total	< 0.12	mg/kg	0.12	0.4	1	6010B		3/13/2019	ESC	1
Organic										
PAH SIM										
Acenaphthene	0.12	mg/kg	0.0163	0.054	1	M8270C	3/8/2019	3/9/2019	NJC	1
Acenaphthylene	0.109	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
Anthracene	0.38	mg/kg	0.0043	0.014	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(a)anthracene	1.20	mg/kg	0.016	0.053	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(a)pyrene	1.58	mg/kg	0.0124	0.041	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(b)fluoranthene	2.55	mg/kg	0.0109	0.036	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(g,h,i)perylene	0.84	mg/kg	0.0084	0.028	1	M8270C	3/8/2019	3/9/2019	NJC	1
Benzo(k)fluoranthene	0.81	mg/kg	0.0091	0.03	1	M8270C	3/8/2019	3/9/2019	NJC	1
Chrysene	1.34	mg/kg	0.006	0.02	1	M8270C	3/8/2019	3/9/2019	NJC	1
Dibenzo(a,h)anthracene	0.235	mg/kg	0.0101	0.034	1	M8270C	3/8/2019	3/9/2019	NJC	1
Fluoranthene	2.37	mg/kg	0.0054	0.018	1	M8270C	3/8/2019	3/9/2019	NJC	1
Fluorene	0.147	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
Indeno(1,2,3-cd)pyrene	0.83	mg/kg	0.0082	0.027	1	M8270C	3/8/2019	3/9/2019	NJC	1
1-Methyl naphthalene	0.067	mg/kg	0.0086	0.029	1	M8270C	3/8/2019	3/9/2019	NJC	1
2-Methyl naphthalene	0.075	mg/kg	0.0147	0.049	1	M8270C	3/8/2019	3/9/2019	NJC	1
Naphthalene	0.091	mg/kg	0.0153	0.0486	1	M8270C	3/8/2019	3/9/2019	NJC	1
Phenanthrene	1.22	mg/kg	0.0071	0.024	1	M8270C	3/8/2019	3/9/2019	NJC	1
Pyrene	2.13	mg/kg	0.0067	0.022	1	M8270C	3/8/2019	3/9/2019	NJC	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.0117	1	EPA 8082A		3/14/2019	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.0179	1	EPA 8082A		3/14/2019	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.0139	1	EPA 8082A		3/14/2019	ESC	1
PCB-1242	0.072	mg/kg	0.0032	0.0106	1	EPA 8082A		3/14/2019	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.0105	1	EPA 8082A		3/14/2019	ESC	1
PCB-1254	0.064	mg/kg	0.0047	0.0157	1	EPA 8082A		3/14/2019	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.0165	1	EPA 8082A		3/14/2019	ESC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/18/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/18/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/18/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849W
Sample ID B-12 0-4
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/18/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/18/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/18/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/18/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/18/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/18/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/18/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/18/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/18/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/18/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/18/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/18/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/18/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/18/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/18/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/18/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/18/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/18/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/18/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/18/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/18/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/18/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/18/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/18/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/18/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/18/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/18/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/18/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/18/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/18/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/18/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/18/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/18/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/18/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/18/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/18/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/18/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/18/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/18/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/18/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/18/2019	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/18/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/18/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/18/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/18/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/18/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849W
Sample ID B-12 0-4
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	0.058 "J"	mg/kg	0.025	0.08	1	8260B		3/18/2019	CJR	1
1,3,5-Trimethylbenzene	0.035 "J"	mg/kg	0.032	0.1	1	8260B		3/18/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/18/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/18/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/18/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	108	Rec %			1	8260B		3/18/2019	CJR	1
SUR - 4-Bromofluorobenzene	93	Rec %			1	8260B		3/18/2019	CJR	1
SUR - Dibromofluoromethane	118	Rec %			1	8260B		3/18/2019	CJR	1
SUR - Toluene-d8	92	Rec %			1	8260B		3/18/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849Y
Sample ID TRIP
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/18/2019	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		3/18/2019	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		3/18/2019	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		3/18/2019	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		3/18/2019	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/18/2019	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		3/18/2019	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		3/18/2019	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		3/18/2019	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		3/18/2019	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		3/18/2019	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		3/18/2019	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		3/18/2019	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		3/18/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		3/18/2019	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/18/2019	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/18/2019	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/18/2019	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		3/18/2019	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		3/18/2019	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		3/18/2019	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		3/18/2019	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		3/18/2019	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/18/2019	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		3/18/2019	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		3/18/2019	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/18/2019	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		3/18/2019	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/18/2019	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		3/18/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		3/18/2019	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/18/2019	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/18/2019	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		3/18/2019	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/18/2019	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		3/18/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		3/18/2019	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		3/18/2019	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		3/18/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		3/18/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		3/18/2019	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/18/2019	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/18/2019	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		3/18/2019	CJR	1

Project Name 200 E. GREENFIELD AVE., **Invoice #** E35849
Project # 20.P000665.19

Lab Code 5035849Y
Sample ID TRIP
Sample Matrix Soil
Sample Date 3/7/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		3/18/2019	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		3/18/2019	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/18/2019	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		3/18/2019	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		3/18/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		3/18/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/18/2019	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		3/18/2019	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		3/18/2019	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		3/18/2019	CJR	1
SUR - Toluene-d8	91	Rec %			1	8260B		3/18/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	Rec %			1	8260B		3/18/2019	CJR	1
SUR - 4-Bromofluorobenzene	94	Rec %			1	8260B		3/18/2019	CJR	1
SUR - Dibromofluoromethane	112	Rec %			1	8260B		3/18/2019	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
2	Relative percent difference failed for laboratory spiked samples.
3	The matrix spike not within established limits.
5	The QC blank not within established limits.
64	Spike recovery failed due to matrix interference.

ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 33[illegible]3

Page 1 of 3

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. :

Quote No.:

Project #: 20.P000665.19

Sampler: (signature) [signature]

Project (Name / Location): 200 E. Greenfield Ave, Milwaukee, WI

Reports To: Heidi Woelfel

Company GZA GeoEnvironmental

Address 20900 Swenson Dr #150

City State Zip Waukesha, WI 53186

Phone 262-754-2594

FAX

Invoice To: SAME

Company

Address

City State Zip

Phone

FAX

Analysis Requested / Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS							PID/ FID
5035849 A	B-1(0-4)	3/6	9:30		X	N	4	S							X	X						X	X							
B	B-1(4-5)	3/6	9:30		X	N	4	S							X	X						X	X							
C	B-2(0-3)	3/6	10:15		X	N	4	S							X	X						X	X							
D	B-2(3-5)	3/6	10:15		X	N	4	S							X	X						X	X							
E	B-3(0-3)	3/6	10:45		X	N	4	S							X	X						X	X							
F	B-3(3-5)	3/6	10:45		X	N	4	S							X	X						X	X							
G	B-4(0-3)	3/6	11:15		X	N	4	S							X	X						X	X							
H	B-4(3-5)	3/6	11:15		X	N	4	S							X	X						X	X							
I	B-5(0-2)	3/6	11:40		X	N	4	S							X	X						X	X							
J	B-5(2-5)	3/6	11:40		X	N	4	S							X	X						X	X							

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

VOC preserved in methanol

Hold B-1(4-5)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: GC

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	4:00	3-7-19			

Received in Laboratory By: [signature] Time: 8:00 Date: 3/8/19

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 33[illegible]4

Page 2 of 3

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. :

Quote No.:

Project #: 20.P000665.19

Sampler: (signature) Mary [illegible]

Project (Name / Location): 200 E. Greenfield Ave, Milwaukee, WI

Reports To: Heidi Woelfel

Company GZA GeoEnvironmental

Address 20900 Swenson Dr #150

City State Zip Waukesha, WI 53186

Phone 262-754-2594

FAX

Invoice To: SAME

Company

Address

City State Zip

Phone

FAX

Analysis Requested / Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS								PID/ FID
5035849 k	B-6(0-2)	3/6/19	12:05		X	N	4	S							X	X						X	X								
L	B-6(2-5)	3/6	12:05		X	N	4	S							X	X						X	X								
M	B-7(0-3)	3/6	1:50		X	N	4	S							X	X						X	X								
N	B-7(3-5)	3/6	1:50		X	N	4	S							X	X						X	X								
O	B-8(0-3)	3/6	2:45		X	N	4	S							X	X						X	X								
P	B-8(3-5)	3/6	2:45		X	N	4	S							X	X						X	X								
Q	B-9(0-2)	3/7/19	9:15		X	N	4	S							X	X						X	X								
R	B-9(2-4)	3/7	9:15		X	N	4	S							X	X						X	X								
S	B-10(0-3)	3/7	9:55		X	N	4	S							X	X						X	X								
T	B-10(3-6)	3/7	9:55		X	N	4	S							X	X						X	X								

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

VOC preserved in methanol

Hold B-6(2-5) and B-7(3-5)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: GC

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Mary [illegible]	4:00	3-7-19			

Received in Laboratory By: [illegible] Time: 8:00 Date: 3/8/19

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 33[illegible]2

Page 3 of 3

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. :

Quote No.:

Project #: 20.P000665.19

Sampler: (signature) [signature]

Project (Name / Location): 200 E. Greenfield Ave, Milwaukee, WI

Reports To: Heidi Woelfel

Company GZA GeoEnvironmental

Address 20900 Swenson Dr #150

City State Zip Waukesha, WI 53186

Phone 262-754-2594

FAX

Invoice To: SAME

Company

Address

City State Zip

Phone

FAX

Analysis Requested / Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS								PID/ FID
5035849U	B-11(0-2)	3/7/19	10:30		X	N	4	S							X	X						X	X								
V	B-11(2-6)	3/7	10:30		X	N	4	S							X	X						X	X								
W	B-12(0-4)	3/7	10:55		X	N	4	S							X	X						X	X								
X	B-12(4-5)	3/7	10:55		X	N	4	S							X	X						X	X								
Y	Trip						1															X									

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

VOC preserved in methanol

Hold B-12(4-5)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: GC

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	4:00	3-7-19			

Received in Laboratory By: [signature] Time: 8:00 Date: 3/8/19