

Brownfield Cleanup Application # C360174

Westchester County Airport

Section III. # 1

**Investigation Report : Westchester County Airport, October 2019 Groundwater
Sampling Results, December 9, 2019**



December 9, 2019

Mr. Robert Funicello
Environmental Project Director
Westchester County Dpt, of Environmental Facilities
270 North Ave, 6th Floor
New Rochelle, NY 10805

Via Electronic Transmission

RE: Westchester County Airport
October 2019 Groundwater Sampling Results

Dear Mr. Funicello:

This letter presents the results of the October 2019 semi-annual groundwater sampling event completed between October 15 and 21 at the Westchester County Airport. The sampling was completed as part of a groundwater monitoring program reinstated by the County in August 2018.

The monitoring program was reinstated in response to a November 2017 sampling event that confirmed the presence of per and polyfluoroalkyl substances (PFAS) in several airport monitor wells. The 2017 sampling was completed at the request of the New York State Department of Environmental Conservation (NYSDEC) due to historical fire training activities conducted by the Air National Guard, a former tenant who left the site in 1983. PFAS, an emerging environmental contaminant, are components of Class B Aqueous Film Forming Foams (AFFF) which were used over a period of years during the fire training activities. The August 2018 sampling event was the first sampling event to include the site-wide analyses of PFAS in groundwater.

The October 2019 semi-annual sampling event included a total of 54 wells. PFAS were analyzed in samples from all 54 wells. In addition, samples from 33 wells were analyzed for volatile organic compounds (VOCs), samples from 9 wells were analyzed for 1,4-dioxane and samples from 6 wells were analyzed for glycols. Table 1 lists the sampled wells and associated analytes for each well. VOCs and glycols are related to ongoing airport operations and were analyzed for historically as part of a monitoring program completed between 2001 and 2011. Similar to PFAS, 1,4-dioxane is an emerging contaminant that is being analyzed for at sites across the State.

The sampling results, which are described in detail below, are generally consistent with those from the previous rounds and show the presence of PFAS compounds in all of the sampled wells. The highest concentrations were detected in the northern part of the site, in the vicinity of the former Air National Guard Burn Pitt, which is the suspected primary source area. A second possible PFAS source area has been identified at Hangar E based on the results for two wells sampled at that location for the first time. The results also suggest a different type of PFAS source at that location. 1,4-Dioxane was detected in 5 wells in and around Hangar D and 4 wells in Hangar E. VOC and glycol results are generally consistent with historical data.

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SAMPLING RESULTS

All wells were sampled with dedicated, disposable, HDPE (PFAS free) bailers. Prior to sampling, the wells were purged of three standing volumes of water, or until dry, using either HDPE bailers or a PFAS-free submersible pump with dedicated HDPE tubing. The samples were collected in laboratory prepared containers and were kept cold until delivery to the laboratory. The samples were analyzed by York Analytical Laboratories of Stratford, CT. The analytical results are summarized on tables 2 - 10 and figures 1 and 2. Copies of the laboratory reports are attached in the Appendix of the electronic version of this report. Category B, ASP deliverables were prepared for each report and are available upon request. Water-level measurements were made in each well prior to sampling. This data was used to calculate groundwater elevations and prepare groundwater contour maps which are presented on table 11 and figures 3 and 4.

Per and Polyfluoroalkyl Substances (PFAS)

PFAS were analyzed by EPA Method 537-M which currently includes 21 individual PFAS. As shown on table 2, PFAS were detected in all sampled wells. Promulgated Federal or State standards do not currently exist for PFAS in groundwater. An EPA recommended guidance value of 70 ppt (parts per trillion, equivalent to nanograms per liter (ng/l)) has been published for the combined concentration of two individual PFAS, Perfluorononanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS). These two compounds were primary components of Class B AFFF. As shown on table 2 and figure 1, the EPA guidance value for PFOA and PFOS was exceeded in 31 of the 54 sampled wells. Twenty-nine of these wells are located on the northern half of the airport (figure 1). The highest combined PFOA and PFOS concentrations were detected in wells FMW-7 (18,087 ng/l) and FMW-6 (14,040 ng/l). These wells are located in the northern corner of the airport near the former Air National Guard Burn Pitt, which is the suspected primary PFAS source area (table 3, figure 1).

The PFOA and PFOS results are consistent with the total PFAS concentrations for all 21 analyzed compounds. The highest total PFAS concentrations were again detected in wells FMW-6 (37,229 ng/l) and FMW-7 (34,645 ng/l) (table 3) and in wells on the northern half of the airport. As stated previously, standards or guidance for total PFAS concentrations or the other 19 individual PFAS do not currently exist.

The sampled wells included wells completed in the shallow unconsolidated sediments as well as bedrock wells. Consistent with previous results, the highest PFAS concentrations were detected in samples from wells that are between 10 and 20 feet deep. Tables 3 and 4 compare PFAS results from the current sampling round to results from the two previous rounds. The same three wells, FMW-6, FMW-7



& FMW-31, which are located near the suspected source area, had the highest concentrations for all three sampling events.

Two wells sampled during the October 2019 round, Hangar E MW-1 and Hangar E MW-3, had not been tested previously for PFAS. Hangar E is located at the southern end of the airport (figure 1) and it has solvent contamination that has been under remediation since 2010. There are four wells located inside the Hangar, two were selected for sampling to assess PFAS concentrations at that location. As shown on table 2, total PFAS concentrations were detected at 6,283 ng/l for Hangar E MW-1 and 2,949 ng/l for MW-3. The combined PFOA and PFOS concentrations were 207 and 283 ng/l respectively. These results are inconsistent with those for other wells in the area. Wells FMW-24, FMW-25 and FMW-26, which are the nearest to Hangar E on three sides, have total PFAS concentrations between 29 and 94 ng/l. The results also show that the ratio of PFOA and PFOS to total PFAS for the Hangar E wells is significantly lower in comparison to other onsite wells (tables 2 & 3). For most wells at the airport with high total PFAS concentrations (over 500 ppt) the ratio of PFOA and PFOS to total PFAS averages about 50 percent and ranges between 27 and 83 percent. For the two Hangar E wells the ratios are about 3 and 10 percent respectively. The lower ratio of PFOA and PFOS to total PFAS suggests that the source of PFAS in the Hangar E wells, some type of AFFF, is different than that for the other wells as PFOA and PFOS do not appear to have been primary components. The concentration of total PFAS in these wells in comparison to surrounding wells suggests that the source is located in the immediate vicinity of the Hangar.

1,4-Dioxane

In August 2018, samples from six wells were analyzed for 1,4-dioxane to determine if this emerging contaminant is present in groundwater at the airport. The wells were selected to provide results from different areas of the airport property and different hydrogeologic zones. There are no known current or historical activities at the site that would have involved the use of this chemical. However, 1,4-dioxane is used as a stabilizer in the manufacturing of chlorinated solvents and is commonly found at sites contaminated with solvents.

The 2018 sampling detected 1,4-dioxane in one well, XDDMW-11 at a concentration of 4.5 ug/l (micrograms per liter). A groundwater standard for this compound does not currently exist however a proposed standard of 1.0 ug/l is being considered by the NYSDEC. This well is a bedrock well located on the eastern side of the airport just outside Hangar D. Hangar D has a historical chlorinated solvent problem that is being remediated and monitored by a former tenant.

Based on the 2018 results, 11 different wells plus XDDMW-11 were sampled for 1,4-dioxane as part of the March 2019 sampling round (table 5, figure 2). As shown on table 5, 1,4-dioxane was detected in five wells, all located in or around Hangar D. The detected concentrations ranged from 2.5 to 32 ug/l.

For the current sampling round, nine wells were sampled for 1,4-dioxane (table 5, figure 2). Five of these were the same Hangar D wells in which it was previously detected. The other four wells are located in Hangar E which also has a historical solvent problem. As shown on table 5, results for the Hangar D wells were consistent with the previous round with concentrations ranging between 2 and 32.4 ug/l. Results for the Hangar E wells show 1,4-dioxane in all four wells at concentrations ranging from 17 to 1,940 ug/l. As shown on figure 2, the presence of 1,4-dioxane at the site appears to be isolated to two different locations, both with historical solvent releases currently undergoing remediation.

Volatile Organic Compounds

Volatile Organic Compounds (VOCs) are a class of chemicals that include petroleum constituents and chlorinated solvents which were analyzed during the 2001 - 2011 groundwater monitoring program. Based on historical data, samples from 33 wells were analyzed for VOCs as part of the October 2019 sampling round (table 1). As shown on table 6, VOCs were detected in samples from all 33 wells of which 14 contained concentrations above groundwater standards. Six of those wells are located in or adjacent to Hangar D (MW-3, MW-7S & 7D; MW-10S & 10D; XDDMW-10) and three are located in Hangar E. As noted in the previous section, Hangars D and E have historical chlorinated solvent problems that are undergoing remediation.

Most of the VOC detections are consistent with historical results and known areas of impact, however there are a few exceptions. The compounds ethyl benzene, toluene and xylenes were detected for the first time in several of the Hangar D wells noted above and FMW-27 (table 6). Because these results were inconsistent with historical data, the laboratory was asked to review them. Upon review the lab identified an error. A sample from an unrelated site analyzed at the same time as several airport samples, and which was heavily contaminated with ethyl benzene, toluene and xylenes, caused cross contamination. This impact was limited to wells sampled on October 18 and analyzed for VOCs. Based on the above information, the ethyl benzene, toluene and xylene detections for the noted wells are considered anomalous. It is expected that these compounds will not be detected in samples from these wells collected during subsequent sampling events.

The compound 1,2,4-trimethylbenzene was detected in well FMW-31 at 9.1 ug/l, which is above the standard of 5 ug/l (table 6). This compound is a petroleum constituent with no history of detections in this well prior to 2018. Other petroleum constituents including 1,3,5-trimethylbenzene, ethylbenzene and xylenes were also detected in this well below standards. This well is located flush to grade in a paved area where private planes and vehicles are often parked. These low level petroleum detections are most probably related to runoff from the pavement infiltrating the well. Similarly well DPWMW-3 had a detection of toluene, also a petroleum constituent, at 200 ug/l exceeding the standard of 5 ug/l (table 6). In 2018 toluene was detected in this well at 220 ug/l, which was a first-time detection. This well is also

located in a roadway and completed flush to grade. An inspection in 2018 showed that the well casing is cracked at the surface as is the surrounding concrete pad and asphalt pavement. Infiltration of storm water runoff from the roadway is suspected to be the source of toluene.

In addition to Hangars D & E, solvents have been historically associated with two former Voluntary Cleanup Sites at the airport, the Former Air National Guard Site (V00499) and the Former Hangar B site (V00611). Results for wells in these two areas are summarized on tables 7 and 8. At the Air National Guard site, the compounds cis-1,2-dichloroethylene, trans-1,2-dichloroethylene and vinyl chloride had a history of detections above standards in one well, FMW-34R. All three of these are degradation products of the solvents perchloroethylene (PCE) and trichloroethylene (TCE). Site investigations in 2003 and 2004 found no source area at the Air National Guard site that could be linked to these detections.

Well FMW-34R is believed to have been destroyed however, seven other wells in this area are included in the sampling program. As shown on table 7 the only related detection was cis-1,2-dichloroethylene, which was detected in FMW-31 below the groundwater standard of 5 ug/l.

The Hangar B site was remediated for solvents in 2005. The wells in this area were incorporated into the 2001 - 2011 groundwater monitoring program for post-remediation monitoring and lingering detections of MTBE associated with closed NYSDEC Spill No. 98-11689. As shown on table 8, MTBE was detected in four out of eight wells below the standard of 10 ug/l. The detected concentrations range between 0.32 and 5.5 ug/l. Site-related solvents were not detected in any of the wells.

Glycols

Ethylene and Propylene Glycol (glycols) are associated with deicing fluid. Historically, glycols have not been detected in groundwater at the airport. In considering the historical data, samples from six wells were selected to be analyzed for glycols (table 1). These wells were selected because they are located near areas where deicing fluid is used or stored. Glycols were not detected in any of these wells (table 2).

Quality Control / Quality Assurance

As part of the sampling protocol, duplicates, field blanks, trip blanks, matrix spike and matrix spike duplicate samples (MS/MSD) were collected. Field blanks were collected daily and trip blanks were collected whenever VOC samples were collected. All others were collected at a rate of one for every 20 samples. Results for the QA/QC samples are summarized on tables 9 and 10 and are included with the laboratory reports in the Appendix.

Table 9 presents results for the duplicate samples. Duplicates are duplicated samples submitted to the laboratory with a different sample identification from the original to confirm laboratory accuracy. As



shown on table 9, results between the original and duplicated samples show a high level of correlation, especially for PFAS which are being measured in parts per trillion.

Table 10 summarizes results for the field and trip blanks. PFAS were not detected in any of the field blanks. Several VOCs were detected at low concentrations in all the samples however the compounds detected are known laboratory artifacts (acetone, methylene chloride) and not established site contaminants. Most of these detections are flagged with a “B” qualifier indicating the compound was detected in the laboratory method blank. This, in combination with the low concentration, indicates the contaminant was most likely introduced to the blank sample in the laboratory. Based on these results, detections of these compounds in site samples at similar concentrations are not considered significant.

Groundwater Flow

Groundwater elevation data are presented on table 11 and figures 3 and 4. Groundwater elevations across the site in the shallow aquifer ranged from a high of 429.08 ft msl (feet above mean sea level) in the northeastern part of the site (DPWMW-3), to a low of 368.76 ft msl in the southwestern part of the site (FMW-25). In the bedrock aquifer elevations ranged from a high of 435.22 ft msl in FMW-36 to a low of 390.24 ft msl in XDDMW-10. The direction of groundwater flow varies as a result of a major drainage basin divide that runs through the site. Approximately three quarters of the site lie within the Blind Brook Drainage Basin with the remainder, on the western side of the property, lying in the Rye Lake Drainage Basin. Groundwater flow in the Blind Brook basin, in the shallow and bedrock aquifers, is primarily to the southeast. In a small area of the northern part of the site, the flow is northwesterly due to a groundwater divide in that area (figure 3). Groundwater flow within the Rye Lake basin flows northwest to southwest towards Rye Lake.

The direction of groundwater flow and the observed elevations measured during sampling are consistent with historical groundwater data. Groundwater elevations in DPWMW-3 and FMW-25 (shallow wells with the highest and lowest elevations) measured in May 2010 were 427.37 and 369.52 ft msl respectively, compared to the current measurements of 429.08 and 368.76 ft msl.

SUMMARY AND CONCLUSIONS

Various PFAS were detected in all sampled wells across the airport. The 70 ng/l EPA guidance value for PFOA and PFOS was exceeded in 31 of 54 sampled wells. Similar to previous sampling events, the highest concentrations were detected in wells near the former Air National Guard Burn Pitt which is considered the most probable source area for most of the impacted wells. PFAS concentrations in samples from two wells located in Hangar E, which were sampled for the first time, indicate a possible second source area impacted with PFAS from a different source in comparison to results for all other wells.



The compound 1,4-dioxane was detected in 9 wells. Five of those wells are located in or around Hangar D and the remainder are located in Hangar E. 1,4-Dioxane is used as a stabilizer in the manufacturing of chlorinated solvents and it is commonly found at sites contaminated with solvents. Hangars D and E have known chlorinated solvent problems currently undergoing remediation. Thirteen other wells at different locations around the airport were previously sampled for 1,4-dioxane in 2018 and 2019 and it was not detected. These results indicate a relationship between the occurrence of 1,4-dioxane at the site and the historical solvent problems at Hangars D and E.

Results for VOCs are generally consistent with historical data. Groundwater standards were exceeded in 14 wells most of which are associated with known airport release sites including Hangars D and E. The exceptions are wells DPWMW-3 and FMW-31 where toluene and 1,2,4-trimethylbenzene were detected respectively after being detected for the first time in 2018. Both of these compounds are petroleum constituents and infiltration of surface water runoff is the suspected source at this time.

Glycols were not detected in any of the six wells that were sampled for them. These wells are located in areas where de-icing fluid is used or stored.

Groundwater elevations and flow directions are consistent with historical data showing little change in water level elevations or flow directions.

If you have any questions, please feel free to contact me at (914) 461-2961.

Kind regards,

WSP USA

John Benvegna, PG(NY), CPG
Senior Supervising Hydrogeologist

JB:nv

Enclosures

cc: Peter Scherrer
Hugh J. Greechan, Jr., PE
John Nonna, Esq.
John Inserra

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TABLES

TABLE 1
WESTCHESTER COUNTY AIRPORT
Sample Analyte Matrix - October 2019

Well (BR) = Bedrock Well	PFAS	Volatile Organics	1,4-Dioxane	Glycols*	Well Depth (ft btoc)
BRMW-1 (BR)	X				44.00
BRMW-2 (BR)	X				45.75
DPW-2	X	X			11.30
DPWMW-3	X	X			14.00
FMW-1R	X				15.25
FMW-2R	X	X			11.80
FMW-3	X				15.10
FMW-6	X				10.70
FMW-7	X				10.00
FMW-8	X	X			11.00
FMW-11	X	X			8.50
FMW-12	X	X			18.78
FMW-13R	X	X			17.55
FMW-14	X	X			15.45
FMW-15	X	X			14.90
FMW-16	X	X			15.80
FMW-17	X				9.48
FMW-23 (BR)	X	X			42.30
FMW-24	X			X	8.50
FMW-25	X			X	12.80
FMW-26	X				15.80
FMW-27	X	X			11.64
FMW-31	X	X			19.65
FMW-35 (BR)	X	X			57.50
FMW-36 (BR)	X				51.50
FMW-37	X			X	13.40
FMW-39	X	X		X	6.30
FMW-40	X	X			12.70
MW-3	X	X			17.50
MW-4	X				17.50
MW-7S	X	X	X		24.65
MW-7D (BR)	X	X			45.60
MW-10D (BR)	X	X	X		50.60
MW-10S	X	X	X		32.00
MW-15S	X	X			23.10
MW-16	X	X			11.10
MW-17S	X				31.70
MW-18	X				14.95
MW-42 (BR)	X	X			58.85
MW-43 (BR)	X	X			67.30
MW-44	X	X			18.10
MW-45	X				15.00
MW-46	X				17.70
MW-47	X				17.70
MW-48 (BR)	X	X			72.45
MW-49 (BR)	X	X			62.60
PAR - 02					10-15
PAR - 03	X				10-15
UW-1	X				13.29
WW-1 (BR)	X				62.10
XDDMW-10 (BR)	X	X	X		59.00
XDDMW-11 (BR)	X		X	X	41.30
XDDMW-13	X				38.60
Hangar E MW-1	X	X	X	X	15.91
Hangar E MW-2		X	X		15.70
Hangar E MW-3	X	X	X		17.40
Hangar E MW-4		X	X		16.00

(ft btoc) Feet Below Top of Casing

*Ethylene and Propylene Glycol

TABLE 2
WESTCHESTER COUNTY AIRPORT
Sampling Results Summary - October 2019 ^{1/}

Well (BR) = Bedrock	PFOA + PFOS (ng/l)	Total PFAS (ng/l)	1,4-Dioxane (ug/l)	Glycols (mg/l)	Well Depth (ft btoc)
BRMW-1 (BR)	49	176	**	**	44.00
BRMW-2 (BR)	125	436	**	**	45.75
DPW-2	59	387	**	**	11.30
DPWMW-3	6	6	**	**	14.00
FMW-1R	230	469	**	**	15.25
FMW-2R	15	31	**	**	11.80
FMW-3	68	123	**	**	15.10
FMW-6	14,040	37,229	**	**	10.70
FMW-7	18,087	34,645	**	**	10.00
FMW-8	2,125	3,998	**	**	11.00
FMW-11	21	60	**	**	8.50
FMW-12	921	1,582	**	**	18.78
FMW-13R	1,827	5,574	**	**	17.55
FMW-14	153	350	**	**	15.45
FMW-15	55	373	**	**	14.90
FMW-16	195	624	**	**	15.80
FMW-17	3,116	3,753	**	**	9.48
FMW-23 (BR)	563	2,066	**	**	42.30
FMW-24	37	75	**	ND	8.50
FMW-25	18	29	**	ND	12.80
FMW-26	43	94	**	**	15.80
FMW-27	2,488	3,540	**	**	11.64
FMW-31	5,215	8,063	**	**	19.65
FMW-35 (BR)	203	327	**	**	57.50
FMW-36 (BR)	41	127	**	**	51.50
FMW-37	3,041	4,535	**	ND	13.40
FMW-39	6	11	**	ND	6.30
FMW-40	1,282	2,167	**	**	12.70
MW-3	6	77	**	**	17.50
MW-4	ND	60	**	**	17.50
MW-7S	134	325	32.4	**	24.65
MW-7D (BR)	28	81	**	**	45.60
MW-10D (BR)	68	205	6.58	**	50.60
MW-10S	101	271	9.72	**	32.00
MW-15S	20	26	**	**	23.10
MW-16	74	101	**	**	11.10
MW-17S	150	297	**	**	31.70
MW-18	12	12	**	**	14.95
MW-42 (BR)	169	558	**	**	58.85
MW-43 (BR)	333	870	**	**	67.30
MW-44	221	544	**	**	18.10
MW-45	414	1,028	**	**	15.00
MW-46	48	371	**	**	17.70
MW-47	107	313	**	**	17.70
MW-48 (BR)	55	401	**	**	72.45
MW-49 (BR)	51	252	**	**	62.60
PAR - 03	70	344	**	**	10.75
UW-1	940	1,212	**	**	13.29
WW-1 (BR)	1,039	2,746	**	**	62.10
XDDMW-10 (BR)	27	93	2.0	**	59.00
XDDMW-11 (BR)	74	272	2.0	ND	41.30
XDDMW-13	170	384	**	**	38.60
Hangar E MW-1	207	6,283	1,940	ND	15.91
Hangar E MW-2	**	**	263	**	15.70
Hangar E MW-3	283	2,949	17.2	**	17.40
Hangar E MW-4	**	**	28.3	**	16.00

1/ See Table 6 for volatile organics.

(ng/l) - nanograms per liter (equivalent to parts per trillion)

(ug/l) - micrograms per liter (equivalent to parts per billion)

(mg/l) - milligrams per liter (equivalent to parts per million)

(ft btoc) Feet Below Top of Casing

100 Concentration exceeds EPA Health Advisory Level of 70 ng/l for PFOA + PFOS

** - Not Analyzed

ND - Not Detected (see lab reports for detection limits)

**TABLE 3
WESTCHESTER COUNTY AIRPORT
PFAS Results by Concentration**

OCTOBER 2019			
Total PFAS (ng/l)	PFOA + PFOS (ng/l)	Well (BR) = Bedrock	Well Depth (ft btoc)
37,229	14,040	FMW-6	10.70
34,645	18,087	FMW-7	10.00
8,063	5,215	FMW-31	19.65
6,283	207	Hangar E MW-1	15.91
5,574	1,827	FMW-13R	17.55
4,535	3,041	FMW-37	13.40
3,998	2,125	FMW-8	11.00
3,753	3,116	FMW-17	9.48
3,540	2,488	FMW-27	11.64
2,949	283	Hangar E MW-3	17.40
2,746	1,039	WW-1 (BR)	62.10
2,167	1,282	FMW-40	12.70
2,066	563	FMW-23 (BR)	42.30
1,582	921	FMW-12	18.78
1,212	940	UW-1	13.29
1,028	414	MW-45	15.00
870	333	MW-43 (BR)	67.30
624	195	FMW-16	15.80
558	169	MW-42 (BR)	58.85
539	221	MW-44	18.10
469	230	FMW-1R	15.25
436	125	BRMW-2 (BR)	45.75
401	55	MW-48 (BR)	72.45
387	59	DPW-2	11.30
384	170	XDDMW-13	38.60
373	55	FMW-15	14.90
371	48	MW-46	17.70
350	153	FMW-14	15.45
344	70	PAR - 03	10.75
327	203	FMW-35 (BR)	57.50
325	134	MW-7S	24.65
313	107	MW-47	17.70
297	150	MW-17S	31.70
272	74	XDDMW-11 (BR)	41.30
271	101	MW-10S	32.00
252	51	MW-49 (BR)	62.60
205	68	MW-10D (BR)	50.60
176	49	BRMW-1 (BR)	44.00
127	41	FMW-36 (BR)	51.50
123	68	FMW-3	15.10
101	74	MW-16	11.10
94	43	FMW-26	15.80
93	27	XDDMW-10 (BR)	59.00
81	28	MW-7D (BR)	45.60
77	6	MW-3	17.50
75	37	FMW-24	8.50
60	21	FMW-11	8.50
60	ND	MW-4	17.50
31	15	FMW-2R	11.80
29	18	FMW-25	12.80
26	20	MW-15S	23.10
12	12	MW-18	14.95
11	6	FMW-39	6.30
6	6	DPWMW-3	14.00

MARCH 2019			
Total PFAS (ng/l)	PFOA + PFOS (ng/l)	Well (BR) = Bedrock	Well Depth (ft btoc)
44,228	16,990	FMW-6	10.70
28,424	19,047	FMW-7	10.00
10,544	6,231	FMW-31	19.65
5,223	2,887	FMW-8	11.00
4,412	3,442	FMW-17	9.48
4,342	817	FMW-13R	17.55
4,162	2,501	FMW-37	13.40
2,559	854	WW-1 (BR)	62.10
2,464	1,496	FMW-27	11.64
2,124	1,295	FMW-40	12.70
1,843	727	FMW-23 (BR)	42.30
1,784	1,500	UW-1	13.29
1,533	784	FMW-12	18.78
1,449	760	FMW-1R	15.25
769	337	FMW-16	15.80
612	203	MW-42 (BR)	58.85
596	210	MW-43 (BR)	67.30
544	118	XDDMW-11(BR)	41.30
492	221	FMW-14	15.45
450	190	MW-44	18.10
416	98	BRMW-2 (BR)	45.75
362	145	MW-7S	24.65
354	158	XDDMW-13	38.60
341	115	MW-47	17.70
336	182	MW-17S	31.70
334	46	MW-48 (BR)	72.45
314	74	PAR - 03	10.75
313	120	MW-10S	32.00
306	75	PAR - 02	8.05
289	37	MW-46	17.70
247	82	MW-10D (BR)	50.60
242	142	FMW-35 (BR)	57.50
227	48	MW-49 (BR)	62.60
223	69	FMW-3	15.10
215	62	BRMW-1 (BR)	44.00
198	41	DPW-2	11.30
196	135	MW-16	11.10
166	108	MW-45	15.00
164	10	FMW-36 (BR)	51.50
103	30	XDDMW-10(BR)	59.00
103	14	FMW-15	14.90
103	2	MW-4	17.50
90	6	MW-3	17.50
79	31	FMW-24	8.50
45	24	MW-18	14.95
44	8	FMW-11	8.50
43	14	MW-7D (BR)	45.60
42	20	FMW-25	12.80
35	25	DPWMW-3	14.00
28	11	FMW-26	15.80
23	3	FMW-2R	11.80
18	9	MW-15S	23.10
8	5	FMW-39	6.30

AUGUST 2018			
Total PFAS (ng/l)	PFOA + PFOS (ng/l)	Well (BR) = Bedrock	Well Depth (ft btoc)
57,390	13,700	FMW-6	10.70
31,983	14,940	FMW-7	10.00
9,519	5,070	FMW-31	19.65
7,407	5,462	FMW-17	9.48
6,400	1,190	FMW-13R	17.55
3,674	1,910	FMW-37	13.40
3,104	1,390	FMW-8	11.00
2,642	2,010	UW-1	13.29
2,280	1,380	FMW-27	11.64
1,735	441	FMW-23 (BR)	42.30
1,542	320	WW-1 (BR)	62.10
1,337	639	FMW-40	12.70
1,283	480	XDDMW-11 BR)	41.30
1,270	594	FMW-12	18.78
899	390	FMW-16	15.80
638	299	FMW-1R	15.25
625	34	FMW-36 (BR)	51.50
569	170	MW-43 (BR)	67.30
508	188	MW-44	18.10
496	230	MW-45	15.00
494	190	XDDMW-13	38.60
414	117	MW-42 (BR)	58.50
346	123	FMW-14	15.45
315	38	MW-48 (BR)	72.45
307	101	MW-10S	32.00
305	49	FMW-15	14.90
294	108	FMW-7S	24.65
284	64	BRMW-2 (BR)	45.75
275	38	DPW-2	11.30
250	114	MW-17S	31.70
242	60	MW-10D (BR)	50.60
239	92	MW-47	17.70
232	54	PAR-03	10.75
218	41	MW-49 (BR)	62.60
178	65	FMW-35 (BR)	57.50
174	50	XDDMW-10(BR)	59.00
163	41	BRMW-1 (BR)	44.00
128	47	FMW-3	15.10
110	87	MW-16	11.10
108	ND	MW-4	17.50
105	33	MW-46	17.70
98	36	MW-15S	23.10
93	5	MW-3	17.50
77	41	FMW-24	8.50
70	19	MW-7D (BR)	45.60
52	21	MW-18	14.95
50	14	FMW-11	8.50
38	13	FMW-39	6.30
37	17	DPWMW-3	14.00
36	18	FMW-25	12.80
35	17	FMW-2R	11.80
25	17	FMW-26	15.80
NS	NS	PAR-02	8.05

(ng/l) - nanograms per liter (equivalent to parts per trillion)

(ft btoc) Feet Below Top of Casing

100 Concentration exceeds EPA Health Advisory Level of 70 ng/l for PFOA + PFOS

ND - Not Detected (see lab report for detection limits)

**TABLE 4
WESTCHESTER COUNTY AIRPORT
PFAS Results by Well**

Well (BR) = Bedrock	PFOA + PFOS (ng/l)			Total PFAS (ng/l)			Well Depth (ft btoc)
	October 2019	March 2019	August 2018	October 2019	March 2019	August 2018	
BRMW-1 (BR)	49	62	41	176	215	163	44.00
BRMW-2 (BR)	125	98	64	436	416	284	45.75
DPW-2	59	41	38	387	198	275	11.30
DPWMW-3	6	25	17	6	35	37	14.00
FMW-1R	230	760	299	469	1,449	638	15.25
FMW-2R	15	3	17	31	23	35	11.80
FMW-3	68	69	47	123	223	128	15.10
FMW-6	14,040	16,990	13,700	37,229	44,228	57,390	10.70
FMW-7	18,087	19,047	14,940	34,645	28,424	31,983	10.00
FMW-8	2,125	2,887	1,390	3,998	5,223	3,104	11.00
FMW-11	21	8	14	60	44	50	8.50
FMW-12	921	784	594	1,582	1,533	1,270	18.78
FMW-13R	1,827	817	1,190	5,574	4,342	6,400	17.55
FMW-14	153	221	123	350	492	346	15.45
FMW-15	55	14	49	373	103	305	14.90
FMW-16	195	337	390	624	769	899	15.80
FMW-17	3,116	3,442	5,462	3,753	4,412	7,407	9.48
FMW-23 (BR)	563	727	441	2,066	1,843	1,735	42.30
FMW-24	37	31	41	75	79	77	8.50
FMW-25	18	20	18	29	42	36	12.80
FMW-26	43	11	17	94	28	25	15.80
FMW-27	2,488	1,496	1,380	3,540	2,464	2,280	11.64
FMW-31	5,215	6,231	5,070	8,063	10,544	9,519	19.65
FMW-35 (BR)	203	142	65	327	242	178	57.50
FMW-36 (BR)	41	10	34	127	164	625	51.50
FMW-37	3,041	2,501	1,910	4,535	4,162	3,674	13.40
FMW-39	6	5	13	11	8	38	6.30
FMW-40	1,282	1,295	639	2,167	2,124	1,337	12.70
MW-3	6	6	5	77	90	93	17.50
MW-4	ND	2	ND	60	103	108	17.50
MW-7S	134	145	108	325	362	294	24.65
MW-7D (BR)	28	14	19	81	43	70	45.60
MW-10D (BR)	68	82	60	205	247	242	50.60
MW-10S	101	120	101	271	313	307	32.00
MW-15S	20	9	36	26	18	98	23.10
MW-16	74	135	87	101	196	110	11.10
MW-17S	150	182	114	297	336	250	31.70
MW-18	12	24	21	12	45	52	14.95
MW-42 (BR)	169	203	117	558	612	414	58.85
MW-43 (BR)	333	210	170	870	596	569	67.30
MW-44	221	190	188	544	450	508	18.10
MW-45	414	108	230	1,028	166	496	15.00
MW-46	48	37	33	371	289	105	17.70
MW-47	107	115	92	313	341	239	17.70
MW-48 (BR)	55	46	38	401	334	315	72.45
MW-49 (BR)	51	48	41	252	227	218	62.60
PAR - 02	NS	75	NS	NS	306	NS	8.05
PAR - 03	70	74	54	344	314	232	10.75
UW-1	940	1,500	2,010	1,212	1,784	2,642	13.29
WW-1 (BR)	1,039	854	320	2,746	2,559	1,542	62.10
XDDMW-10 (BR)	27	30	50	93	103	174	59.00
XDDMW-11 (BR)	74	118	480	272	544	1,283	41.30
XDDMW-13	170	158	190	384	354	494	38.60
Hangar E MW-1	207	NS	NS	6,283	NS	NS	15.91
Hangar E MW-2	**	NS	NS	**	NS	NS	15.70
Hangar E MW-3	283	NS	NS	2,949	NS	NS	17.40
Hangar E MW-4	**	NS	NS	**	NS	NS	16.00

(ng/l) - nanograms per liter (equivalent to parts per trillion)

(ft btoc) Feet Below Top of Casing

100

Concentration exceeds EPA Health Advisory Level of 70 ng/l for PFOA + PFOS

** Not Analyzed

ND - Not Detected (see lab report for detection limits)

NS - Not Sampled

**TABLE 5
WESTCHESTER COUNTY AIRPORT
1,4-Dioxane Results**

Well (BR) = Bedrock Well	1,4-Dioxane (ug/l)			Well Depth (ft btoc)
	October 2019	March 2019	August 2018	
BRMW-1 (BR)	**	**	**	44.00
BRMW-2 (BR)	**	**	**	45.75
DPW-2	**	**	ND	11.30
DPWMW-3	**	**	**	14.00
FMW-1R	**	**	**	15.25
FMW-2R	**	ND	**	11.80
FMW-3	**	**	**	15.10
FMW-6	**	ND	**	10.70
FMW-7	**	**	**	10.00
FMW-8	**	**	**	11.00
FMW-11	**	**	**	8.50
FMW-12	**	**	**	18.78
FMW-13R	**	**	ND	17.55
FMW-14	**	**	**	15.45
FMW-15	**	**	**	14.90
FMW-16	**	**	**	15.80
FMW-17	**	**	**	9.48
FMW-23 (BR)	**	ND	**	42.30
FMW-24	**	**	**	8.50
FMW-25	**	**	ND	12.80
FMW-26	**	**	ND	15.80
FMW-27	**	**	**	11.64
FMW-31	**	**	**	19.65
FMW-35 (BR)	**	**	**	57.50
FMW-36 (BR)	**	**	**	51.50
FMW-37	**	**	**	13.40
FMW-39	**	ND	**	6.30
FMW-40	**	**	**	12.70
MW-3	**	**	**	17.50
MW-4	**	**	**	17.50
MW-7S	32.4	32	**	24.65
MW-7D (BR)	**	**	**	45.60
MW-10D (BR)	6.58	5	**	50.60
MW-10S	9.72	8.4	**	32.00
MW-15S	**	**	**	23.10
MW-16	**	**	**	11.10
MW-17S	**	**	**	31.70
MW-18	**	**	**	14.95
MW-42 (BR)	**	**	**	58.85
MW-43 (BR)	**	**	**	67.30
MW-44	**	ND	**	18.10
MW-45	**	**	**	15.00
MW-46	**	**	**	17.70
MW-47	**	**	**	17.70
MW-48 (BR)	**	ND	**	72.45
MW-49 (BR)	**	**	**	62.60
PAR - 02 (see note)	NS	**	ND	8.05
PAR - 03 (see note)	**	**	ND	10.75
UW-1	**	**	ND	13.29
WW-1 (BR)	**	**	**	62.10
XDDMW-10 (BR)	2.0	2.5	**	59.00
XDDMW-11 (BR)	2.0	3.8	4.5	41.30
XDDMW-13	**	ND	**	38.60
Hangar E MW-1	1,940	NS	NS	15.91
Hangar E MW-2	263	NS	NS	15.70
Hangar E MW-3	17.2	NS	NS	17.40
Hangar E MW-4	28.3	NS	NS	16.00

Note: PAR-02 and PAR-03 results from NYSDEC April 2018 sampling event.

(ug/l) - micrograms per liter (equivalent to parts per billion)

(ft btoc) Feet Below Top of Casing

** Not Analyzed

ND - Not Detected (see lab report for detection limits)

NS - Not Sampled

TABLE 6
WESTCHESTER COUNTY AIRPORT - GROUNDWATER SAMPLING RESULTS SUMMARY
Volatile Organics

Page 1 of 4

Sample ID	NYSDEC TOGS Standards & Guidance	DPW-2			DPWMW-3			FMW-2R			FMW-8			FMW-11			FMW-12			FMW-13R			FMW-14		
		08/18	03/19	10/19	08/18	04/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19
Volatile Organics, 8260	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	0.39	ND	ND	ND	ND	ND	NT	ND	ND	0.86	ND	ND	0.39	ND	ND	0.46	ND	ND	NT	ND	ND	0.27	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	0.20	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	0.35	ND
2-Butanone	50*	ND	ND	0.52 JB	ND	ND	2.8 JB	ND	NT	0.46 JB	ND	ND	ND	ND	ND	ND	1.1 JB	ND	ND	NT	ND	ND	ND	ND	0.55 JB
4-Methyl-2-pentanone	~	ND	ND	ND	1.5	ND	1.3	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Acetone	50*	ND	ND	ND	ND	2.7	6.1	ND	NT	ND	1.20 J	ND	1.0 J	1.90 J	ND	ND	4.40	ND	1.8 J	ND	NT	ND	ND	1.6	2.6
Benzene	1	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	0.3 J	0.86	ND
Bromomethane	5	ND	ND	ND	ND	ND	0.40 J	ND	NT	ND	ND	ND	0.30 JB	ND	ND	0.40 J	ND	ND	ND	NT	0.31 JB	ND	ND	ND	ND
Carbon disulfide	60*	0.2 J	ND	ND	ND	ND	1.7	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	0.35 J
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	9	23	5.3
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	0.37	ND	ND	ND	ND	ND	NT	ND	ND	0.98	0.58	ND	ND	ND	0.22	ND	ND	NT	ND	ND	0.27	0.21 J	
Cyclohexane	~	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10*	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	~	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	0.25	ND	ND	NT	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	220	0.65	200	ND	NT	ND	ND	0.47	ND	ND	0.22	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Trichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	0.22	ND	ND	ND	ND	0.26	ND	ND	NT	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Xylenes, Total	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	1.40	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND

ug/L micrograms per liter (parts per billion)
 ND - Not Detected (see lab reports for detection limits).
 NT - Not Tested
 * - indicates a guidance value as opposed to a standard
 ~ - indicates that no regulatory limit has been established for this analyte
Exceeds Standard or Guidance

TABLE 6
WESTCHESTER COUNTY AIRPORT - GROUNDWATER SAMPLING RESULTS SUMMARY
Volatile Organics

Page 2 of 4

Sample ID	NYSDEC TOGS Standards & Guidance	FMW-15			FMW-16			FMW-23			FMW-27			FMW-31			FMW-35			FMW-39			FMW-40		
		08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	04/19	10/19	08/18	03/19	10/19
Volatile Organics, 8260	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	5	ND	NT	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	NT	ND	ND	0.22	ND	ND	ND	ND	ND	0.47	0.46 J	7	11	9.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	3.5	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50*	ND	NT	0.35 JB	ND	ND	0.56 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 JB	ND	ND
4-Methyl-2-pentanone	~	ND	NT	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50*	ND	NT	ND	ND	ND	1.1 J	ND	ND	ND	ND	ND	ND	2.8	ND	5.8	1.2 J	ND	ND	5	3.8	1.1 J	15	2.3	3.3
Benzene	1	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	NT	0.28 JB	ND	ND	0.25 JB	ND	ND	0.29 J	ND	ND	ND	ND	ND	0.31 J	ND	ND	0.20 J	ND	ND	0.41 J	ND	ND	ND
Carbon disulfide	60*	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	0.25 J	ND	ND	ND	ND	ND	0.29 J	ND	ND
Chlorobenzene	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	NT	ND	ND	ND	ND	84	280	170	ND	ND	ND	2.3	1.4	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	~	ND	NT	ND	ND	ND	ND	ND	0.21	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	0.36 J	0.61	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	1.5	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10*	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	0.35	0.46 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	1.8	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	~	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	0.39	0.37 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42	ND	ND	ND	ND	ND	0.2 J	ND	0.57	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	NT	ND	ND	ND	ND	0.28 J	2.9	0.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	5	ND	NT	ND	ND	ND	ND	0.51	1.4	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	NT	ND	ND	ND	ND	12	77	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	5	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150	ND	1.2	1.1 J	ND	ND	ND	ND	ND	ND	ND	ND

ug/L micrograms per liter (parts per billion)
 ND - Not Detected (see lab reports for detection limits).
 NT - Not Tested
 * - indicates a guidance value as opposed to a star
 ~ - indicates that no regulatory limit has been established
Exceeds Standard or Guidance

TABLE 6
WESTCHESTER COUNTY AIRPORT - GROUNDWATER SAMPLING RESULTS SUMMARY
Volatile Organics

Page 3 of 4

Sample ID	NYSDEC TOGS Standards & Guidance	MW-3			MW-7S			MW-7D			MW-10D			MW-10S			MW-15S			MW-16			MW-42		
		09/18	03/19	10/19	09/18	03/19	10/19	09/18	03/19	10/19	09/18	03/19	10/19	09/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19
Volatile Organics, 8260	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	ND	ND	ND	8	7.4	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	72	100	64	49	35	40	11	15	12	17	19	14	0.76	ND	ND	ND	NT	0.31 J	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND	15	32	16	12	6.6	3.8	1	0.52	ND	5.80	6.1	1.5	ND	ND	ND	ND	NT	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	1.0
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
2-Butanone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	0.52 JB	ND	ND	0.38 JB
4-Methyl-2-pentanone	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
Acetone	50*	4.8	1.8	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND	1.2 J	ND	ND	ND	8.5	6.2	4.8	ND	NT	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32 JB	ND	NT	ND	ND	ND
Carbon disulfide	60*	ND	ND	ND	ND	ND	ND	0.39 J	ND	ND	0.26 J	ND	0.24 JB	ND	ND	ND	0.6	ND	ND	ND	NT	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
Chloroethane	5	0.23 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	0.55	ND	36	45	37	17	12	5.7	7.1	3.2	0.42 J	14	16	4.5	1.3	ND	ND	ND	NT	0.45 J	ND	ND	ND
Cyclohexane	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	4.8	ND	ND	5	ND	ND	3.4	ND	ND	1.4	ND	ND	1.8	ND	ND	ND	ND	NT	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	0.21 J	0.25	0.45 J
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	0.49 J	ND	ND	ND
tert-Butyl alcohol (TBA)	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND	19	30	17	5.6	1.5	1.2	0.9	0.4	ND	5.8	4.9	1.2	ND	ND	ND	ND	NT	0.28 J	ND	ND	ND
Toluene	5	ND	ND	10	ND	ND	10	ND	ND	6.8	ND	ND	3.0	ND	ND	3.9	ND	ND	ND	ND	NT	ND	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	ND	ND	0.390 J	0.64	0.44 J	0.25 J	ND	ND	ND	0.4	0.3 J	0.35 J	0.42	0.24 J	ND	ND	ND	ND	NT	ND	ND	ND	ND
Trichloroethylene	5	ND	ND	ND	18	26	14	21	14	7.8	1.4	1.1	ND	4	4.2	1.5	ND	ND	ND	ND	NT	ND	ND	ND	ND
Vinyl Chloride	2	ND	0.32	ND	7.1	9	6.4	1.2	0.68	ND	0.41 J	2.5	1.5	1.6	3.2	1.7	ND	ND	ND	ND	NT	ND	ND	ND	ND
Xylenes, Total	5	ND	ND	27	ND	ND	33	ND	ND	19	ND	ND	7.1	ND	ND	9.7	ND	ND	ND	ND	NT	ND	ND	ND	ND

ug/L micrograms per liter (parts per billion)
 ND - Not Detected (see lab reports for detection limits).
 NT - Not Tested
 * - indicates a guidance value as opposed to a star
 ~ - indicates that no regulatory limit has been established
Exceeds Standard or Guidance

TABLE 6
WESTCHESTER COUNTY AIRPORT - GROUNDWATER SAMPLING RESULTS SUMMARY
Volatile Organics

Page 4 of 4

Sample ID	NYSDEC TOGS Standards & Guidance	MW-43			MW-44			MW-48			MW-49			XDDMW-10			Hangar E-1			
		08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	04/19	10/19	MW-1 10/19	MW-2 10/19	MW-3 10/19	MW-4 10/19
Volatile Organics, 8260	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	6.2	6.5	35	29	4.3	0.55
1,1-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	59	14	0.52
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	0.23 J	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23 J	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4	3.6	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50*	ND	ND	0.33 JB	ND	ND	0.29 JB	ND	ND	0.74 JB	ND	ND	ND	ND	ND	ND	ND	ND	0.7 JB	0.23 JB
4-Methyl-2-pentanone	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50*	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.85	0.46 J	0.27 J	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26 JB	ND	0.29 J	0.39 J	0.40 J	0.43 J	0.22 J	ND
Carbon disulfide	60*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41 J	0.51	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46	0.42 J	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	6.6	7.1	18	6.5	2.6	0.41 J
Cyclohexane	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.510	ND
Methyl tert-butyl ether (MTBE)	10*	ND	8.3	5.5	7.9	ND	ND	1.7	0.95	1.5	0.32 J	0.39	0.32 J	ND	ND	ND	0.23 J	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31 J	0.21 J	ND	ND
tert-Butyl alcohol (TBA)	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21 J	ND	ND	ND
Trichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	0.790	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	5.3	2.4	ND
Xylenes, Total	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ug/L micrograms per liter (parts per billion)

ND - Not Detected (see lab reports for detection limits).

NT - Not Tested

* - indicates a guidance value as opposed to a star

~ - indicates that no regulatory limit has been established

Exceeds Standard or Guidance

**TABLE 7
WESTCHESTER COUNTY AIRPORT
Former Air National Guard Site V00499 - Volatile Organics Summary**

Sample ID	NYSDEC TOGS Standards & Guidance	DPW MW-3			FMW-12			FMW-31			FMW-35			FMW-36			FMW-37			FMW-40		
		08/18	04/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19
Volatile Organics, 8260	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	0.46	ND	7	11	9.1	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	1.9	3.5	3.4	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
2-Butanone	50*	ND	ND	2.8 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
4-Methyl-2-pentanone	~	1.5	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27 J	ND	NT	ND	ND	NT	ND	ND	ND
Acetone	50*	ND	2.7	6.1	4.4	ND	1.8 J	2.8	ND	5.8	1.2 J	ND	ND	2.7	ND	NT	4.3	ND	NT	15	2.3	3.3
Benzene	1	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Bromomethane	5	ND	ND	0.40 J	ND	ND	ND	ND	ND	0.31 J	ND	ND	0.20 J	ND	ND	NT	ND	ND	NT	ND	ND	ND
Carbon disulfide	60*	ND	ND	1.7	ND	ND	ND	1.3	ND	ND	0.25 J	ND	ND	ND	ND	NT	ND	ND	NT	0.29 J	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	ND	ND	ND	0.22	ND	2.3	1.4	1.6	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Cyclohexane	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	0.36 J	0.61	0.50	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	0.7	1.5	1.0	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	0.8	1.8	1.3	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
tert-Butyl alcohol (TBA)	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	0.5	0.39	0.37 J	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Toluene	5	220	0.65	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Trichloroethylene	5	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND
Xylenes, Total	5	ND	ND	ND	ND	ND	ND	ND	1.2	1.1 J	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND

ug/L micrograms per liter (parts per billion)

ND - analyte not detected (see lab reports for detection limits)

NT - analyte not tested

J - analyte detected at or above the method detection limit but below the reporting limit - data is estimated

B - analyte found in the analysis batch blank indicating laboratory cross contamination.

* - indicates a guidance value as opposed to a standard

~ - indicates that no regulatory limit has been established for this analyte

Exceeds Standard or Guidance

**TABLE 8
WESTCHESTER COUNTY AIRPORT
Former Hangar B Site V00611 - Volatile Organics Summary**

Sample ID	NYSDEC TOGS Standards & Guidance	MW-42			MW-43			MW-44			MW-45			MW-46			MW-47			MW-48			MW-49		
		08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19	08/18	03/19	10/19
Volatile Organics, 8260	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	0.22	ND	ND	ND	0.23 J	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50*	ND	ND	0.38 JB	ND	ND	0.33 JB	ND	ND	0.29 JB	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	0.74 JB	ND	ND	ND	ND
4-Methyl-2-pentanone	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Acetone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	2.10	ND	NT	ND	1.6	ND	ND	ND	1.2 J	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	0.26 JB
Carbon disulfide	60*	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10*	0.21 J	0.25	0.45 J	ND	8.3	5.5	7.9	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	1.7	0.95	1.5	0.32 J	0.39	0.32 J	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	~	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND

ug/L micrograms per liter (parts per billion)

ND - analyte not detected (see lab reports for detection limits)

NT - analyte not tested

J - analyte detected at or above the method detection limit but below the reporting limit - data is estimated

B - analyte found in the analysis batch blank indicating laboratory cross contamination.

* - indicates a guidance value as opposed to a standard

~ - indicates that no regulatory limit has been established for this analyte

Exceeds Standard or Guidance

**TABLE 9
WESTCHESTER COUNTY AIRPORT
Field Duplicate Results Summary**

Sample ID	MW-44	Field Duplicate	BRWMW-1	Field Duplicate	Hangar E MW-1	Field Duplicate
Date	10/15/19	10/15/19	10/16/19	10/16/19	10/21/19	10/21/19
PFAS EPA 537	ng/L	ng/l	ng/L	ng/l	ng/L	ng/l
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	ND	ND	ND	19.3	10.7
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	ND	ND	ND	606	601
N-EtFOSAA	ND	ND	ND	ND	ND	ND
N-MeFOSAA	ND	ND	ND	ND	ND	ND
Perfluoro-1-decanesulfonic acid (PFDS)	ND	ND	ND	ND	ND	ND
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.05	4.72	ND	ND	ND	ND
Perfluoro-1-octanesulfonamide (FOSA)	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS)	18.2	18.6	7.06	7.12	ND	ND
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic acid (PFHpA)	18.7	18.7	8.15	8.48	314	309
Perfluorohexanesulfonic acid (PFHxS)	134	132	42.7	43.7	ND	ND
Perfluorohexanoic acid (PFHxA)	40.6	38.2	18.3	18.5	1,210	1,250
Perfluoro-n-butanoic acid (PFBA)	22.9	23.1	10.6	10.9	477	475
Perfluorononanoic acid (PFNA)	28.4	28.2	12.7	13	ND	ND
Perfluorooctanesulfonic acid (PFOS)	155	168	37.6	37.6	12.6	ND*
Perfluorooctanoic acid (PFOA)	65.5	68.1	10.9	11.1	194	179
Perfluoropentanoic acid (PFPeA)	52.1	53.9	27.8	28.1	3,450	3,620
Perfluorotetradecanoic acid (PFTA)	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTDA)	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnA)	4.94	4.42	ND	ND	ND	ND
TOTAL PFAS	544	558	176	179	6,283	6,445

ND - analyte not detected (see lab reports for detection limits)

ND* - the detection limit for this compound was 10 ng/l

ND** - the detection limit for this compound was 0.20 ug/l

ng/l = nanograms per liter or parts per trillion.

ug/l = micrograms per liter or parts per billion.

J - analyte detected at or above the method detection limit but below the reporting limit - data is estimated

B - analyte found in the analysis batch blank indicating laboratory cross contamination.

Sample ID	FMW-44	Field Duplicate	Hangar E MW-1	Field Duplicate
Date	10/15/19	10/15/19	10/21/19	10/21/19
Volatile Organics, 8260	ug/l	ug/l	ug/l	ug/l
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	35	32
1,1-Dichloroethylene	ND	ND	130	120
1,2,4-Trimethylbenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	0.23 J	0.22 J
1,2-Dichloroethane	ND	ND	8.4	8.3
1,3,5-Trimethylbenzene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
2-Butanone	0.29 JB	ND**	ND	ND
4-Methyl-2-pentanone	ND	ND	ND**	0.24 J
Acetone	ND	ND	ND	ND
Benzene	ND	ND	0.85	0.78
Bromomethane	ND	ND	0.39 J	0.33 J
Carbon disulfide	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Chloroethane	ND	ND	46	39
cis-1,2-Dichloroethylene	ND	ND	18	17
Cyclohexane	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	ND	ND	0.23 J	ND**
Methylene chloride	ND	ND	1.3 J	1.2 J
n-Propylbenzene	ND	ND	ND	ND
o-Xylene	ND	ND	0.28 J	0.26 J
p-&m-Xylenes	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	0.31 J	0.27 J
tert-Butyl alcohol (TBA)	ND	ND	28	18
tert-Butylbenzene	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ND	ND	0.21 J	0.20 J
Trichloroethylene	ND	ND	1.2	1.1
Vinyl Chloride	ND	ND	19	17
Xylenes, Total	ND	ND	ND	ND
1,4-Dioxane	---	---	1,940	1,580
Glycols	---	---	ND	ND

TABLE 10
WESTCHESTER COUNTY AIRPORT
Field Blank Results Summary

Sample ID	Units	Field Blank	Trip Blank	Field Blank	Field Blank	Trip Blank	Field Blank	Trip Blank	Field Blank	Trip Blank
Sampling Date		10/15/2019	10/15/2019	10/16/2019	10/17/2019	10/17/2019	10/18/2019	10/18/2019	10/21/2019	10/21/2019
1,2,3-Trichlorobenzene	ug/l	ND	ND	ND	ND	ND	ND	0.23 J	ND	ND
2-Butanone	ug/l	ND	0.28 JB	0.62 JB	ND	0.31 JB	ND	ND	0.4 JB	0.5 JB
Acetone	ug/l	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND
Bromomethane	ug/l	0.39 JB	0.23 JB	0.24 J	0.33 JB	0.32 JB	ND	ND	0.32 JB	0.3 J
Methylene chloride	ug/l	1.2 J	ND	1.2 J	1.4 J	ND	1.1 J	ND	1.3 J	ND
1,4-Dioxane	ug/l	NT	----	ND	NT	----	0.84 B	----	0.480	----
Ethylene Glycol	mg/l	NT	----	ND	NT	----	ND	----	NT	----
Propylene Glycol	mg/l	NT	----	ND	NT	----	ND	----	NT	----
PFAS - all 21 compounds	ng/l	ND	----	ND	ND	----	ND	----	ND	----

Note - see lab reports for full analyte lists

(ug/l) - micrograms per liter (equivalent to parts per billion)

(mg/l) - milligrams per liter (equivalent to parts per million)

(ug/l) - micrograms per liter (equivalent to parts per billion)

J - analyte detected at or above the method detection limit but below the reporting limit - data is estimated

B - analyte found in the analysis batch blank indicating laboratory cross contamination.

ND - not detected (see lab reports for detection limits)

NT - analyte not tested

---- Not Applicable - Trip Blanks are only analyzed for volatile organics.

TABLE 11
WESTCHESTER COUNTY AIRPORT
Groundwater Level Measurements

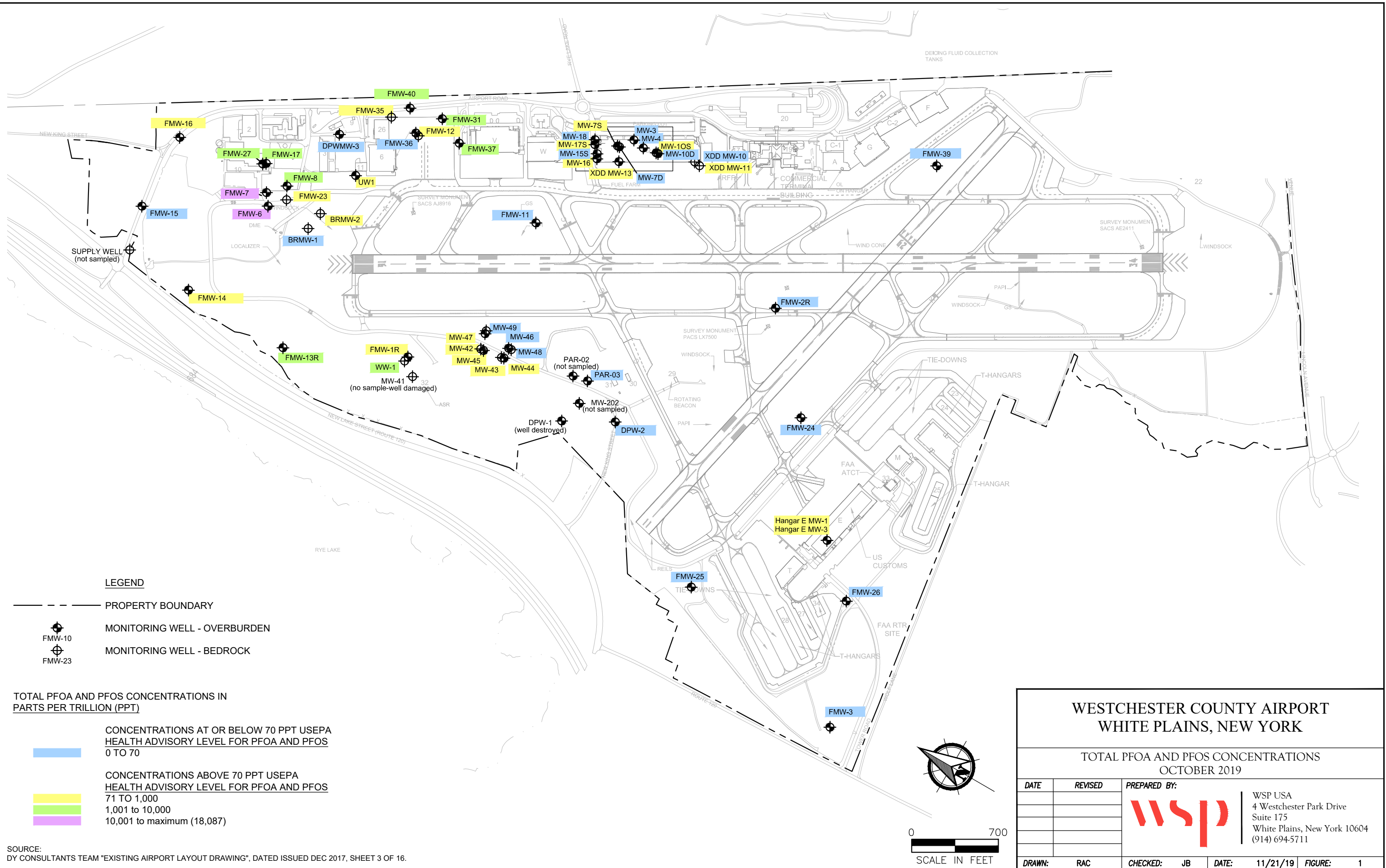
Well (BR) = Bedrock Well	Date	Top of Casing Elevation (ft msl)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)	Well Depth (ft btoc)
BRMW-1 (BR)	10/16/19	429.62	5.32	424.30	44.00
BRMW-2 (BR)	10/21/19	431.33	4.72	426.61	45.75
DPW-2	10/16/19	NA	3.91	NA	11.30
DPWMW-3	10/18/19	435.02	5.94	429.08	14.00
FMW-1R	10/15/19	440.90	12.38	428.52	15.25
FMW-2R	10/16/19	398.60	5.46	393.14	11.80
FMW-3	10/17/19	428.42	12.83	415.59	15.10
FMW-6	10/16/19	424.75	5.04	419.71	10.70
FMW-7	10/16/19	423.72	4.67	419.05	10.00
FMW-8	10/17/19	423.40	0.40	423.00	11.00
FMW-11	10/21/19	424.36	8.20	416.16	8.50
FMW-12	10/21/19	435.45	14.82	420.63	18.78
FMW-13R	10/17/19	427.87	7.61	420.26	17.55
FMW-14	10/16/19	404.69	7.84	396.85	15.45
FMW-15	10/17/19	415.29	10.99	404.30	14.90
FMW-16	10/17/19	416.20	5.23	410.97	15.80
FMW-17	10/18/19	422.37	1.73	420.64	9.48
FMW-23 (BR)	10/16/19	423.72	2.52	421.20	42.30
FMW-24	10/16/19	394.21	5.14	389.07	8.50
FMW-25	10/16/19	375.35	6.59	368.76	12.80
FMW-26	10/16/19	404.79	12.01	392.78	15.80
FMW-27	10/18/19	421.89	2.92	418.97	11.64
FMW-31	10/21/19	428.37	11.21	417.16	19.65
FMW-35 (BR)	10/21/19	440.53	18.53	422.00	57.50
FMW-36 (BR)	10/21/19	435.42	0.20	435.22	51.50
FMW-37	10/18/19	425.71	7.26	418.45	13.40
FMW-39	10/16/19	388.77	5.07	383.70	6.30
FMW-40	10/21/19	428.93	8.94	419.99	12.70
MW-3	10/18/19	409.54	10.63	398.91	17.50
MW-4	10/18/19	408.93	10.29	398.64	17.50
MW-7S	10/18/19	NA	8.65	NA	24.65
MW-7D (BR)	10/18/19	409.46	9.31	400.15	45.60
MW-10D (BR)	10/18/19	NA	10.85	NA	50.60
MW-10S	10/18/19	NA	10.77	NA	32.00
MW-15S	10/17/19	NA	3.54	NA	23.10
MW-16	10/17/19	NA	4.60	NA	11.10
MW-17S	10/17/19	NA	4.84	NA	31.70
MW-18	10/17/19	NA	4.62	NA	14.95
MW-42 (BR)	10/15/19	423.08	6.75	416.33	58.85
MW-43 (BR)	10/15/19	417.08	6.75	410.33	67.30
MW-44	10/15/19	417.66	8.02	409.64	18.10
MW-45	10/15/19	421.84	8.86	412.98	15.00
MW-46	10/15/19	426.17	16.07	410.10	17.70
MW-47	10/15/19	428.90	15.51	413.39	17.70
MW-48 (BR)	10/15/19	425.51	17.20	408.31	72.45
MW-49 (BR)	10/15/19	428.26	14.41	413.85	62.60
PAR-03	10/16/19	NA	2.90	NA	10.75
UW-1	10/17/19	NA	7.82	NA	13.29
WW-1 (BR)	10/15/19	443.76	20.25	423.51	62.10
XDDMW-10 (BR)	10/16/19	409.69	19.45	390.24	59.00
XDDMW-11 (BR)	10/16/19	409.19	18.71	390.48	41.30
XDDMW-13	10/18/19	411.59	7.50	404.09	38.60
Hangar E MW-1	10/21/2019	NA	11.13	---	15.91
Hangar E MW-2	10/21/2019	NA	10.74	---	15.70
Hangar E MW-3	10/21/2019	NA	10.53	---	17.40
Hangar E MW-4	10/21/2019	NA	11.05	---	16.00

(ft msl) - feet above mean sea level
(ft btoc) - feet below top of casing
NA - Not Available



FIGURES

O:\DWG\Westchester County Airport\2019\F1_TotalPFOA_Oct2019.dwg_Layout1_12/2/2019 2:19:25 PM_DWG To PDF.pc3



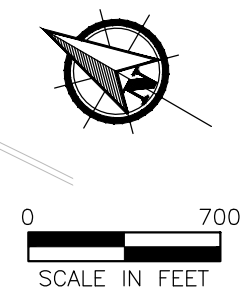
LEGEND

- PROPERTY BOUNDARY
- ⊕ MONITORING WELL - OVERBURDEN
- ⊕ MONITORING WELL - BEDROCK

TOTAL PFOA AND PFOS CONCENTRATIONS IN PARTS PER TRILLION (PPT)

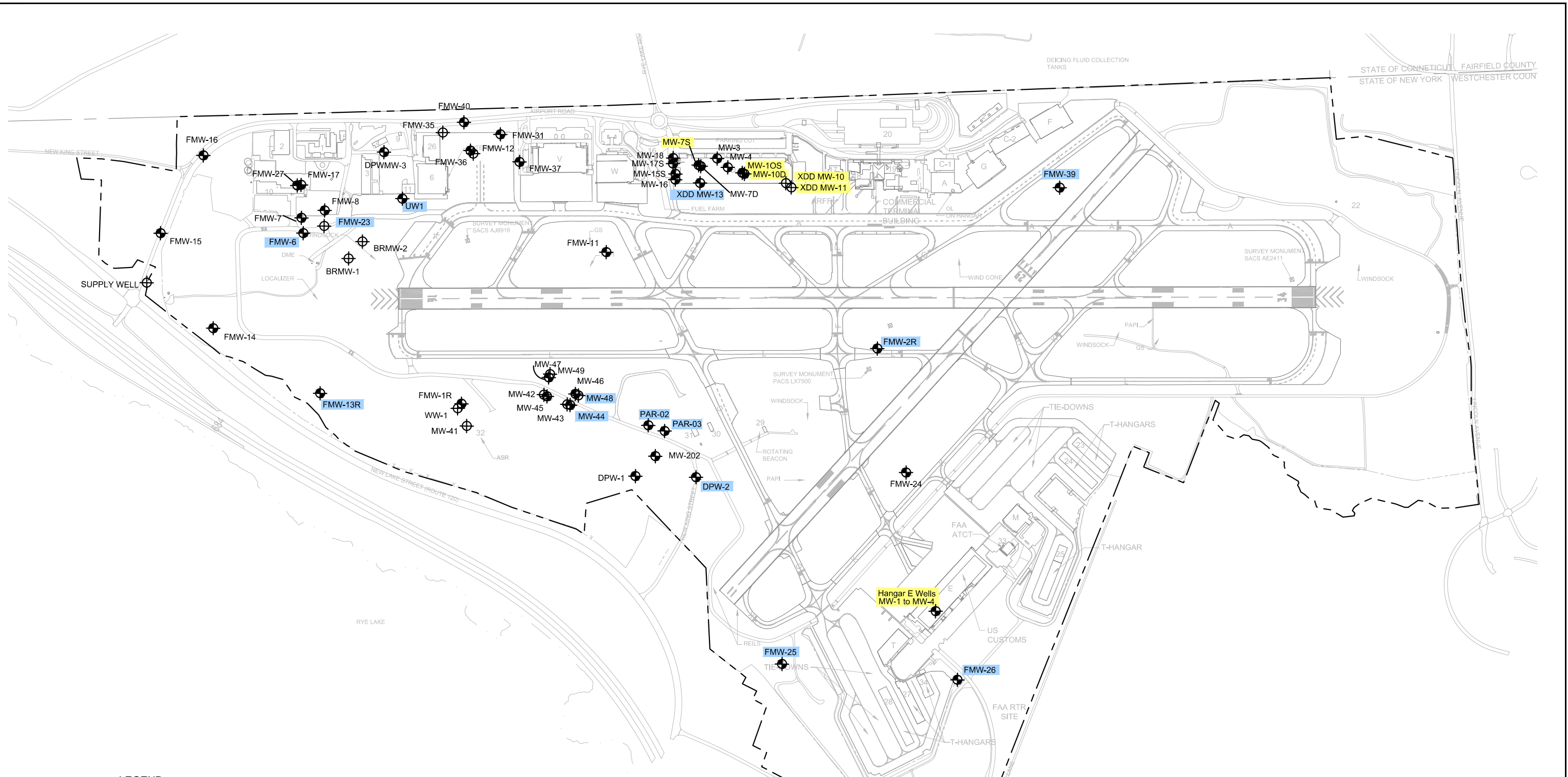
	CONCENTRATIONS AT OR BELOW 70 PPT USEPA HEALTH ADVISORY LEVEL FOR PFOA AND PFOS 0 TO 70
	CONCENTRATIONS ABOVE 70 PPT USEPA HEALTH ADVISORY LEVEL FOR PFOA AND PFOS 71 TO 1,000
	1,001 to 10,000
	10,001 to maximum (18,087)

SOURCE: DY CONSULTANTS TEAM "EXISTING AIRPORT LAYOUT DRAWING", DATED ISSUED DEC 2017, SHEET 3 OF 16.



WESTCHESTER COUNTY AIRPORT WHITE PLAINS, NEW YORK			
TOTAL PFOA AND PFOS CONCENTRATIONS OCTOBER 2019			
DATE	REVISED	PREPARED BY:	
		WSP USA 4 Westchester Park Drive Suite 175 White Plains, New York 10604 (914) 694-5711	
DRAWN:	RAC	CHECKED:	JB
		DATE:	11/21/19
		FIGURE:	1

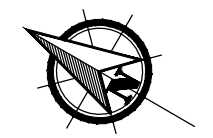
O:\DWG\Westchester County Airport\2019\F2_1_4-Dioxane_2018-2019.dwg, Layout1, 12/2/2019 2:22:31 PM, DWG To PDF, pc3



LEGEND


- PROPERTY BOUNDARY
- ⊕ FMW-10 MONITORING WELL - SHALLOW
- ⊕ FMW-23 MONITORING WELL - BEDROCK
- NO COLOR WELL NOT TESTED FOR 1,4-DIOXANE
- 1,4-DIOXANE DETECTED
- 1,4-DIOXANE NOT DETECTED

SOURCE:
DY CONSULTANTS TEAM "EXISTING AIRPORT LAYOUT DRAWING", DATED ISSUED DEC 2017, SHEET 3 OF 16.

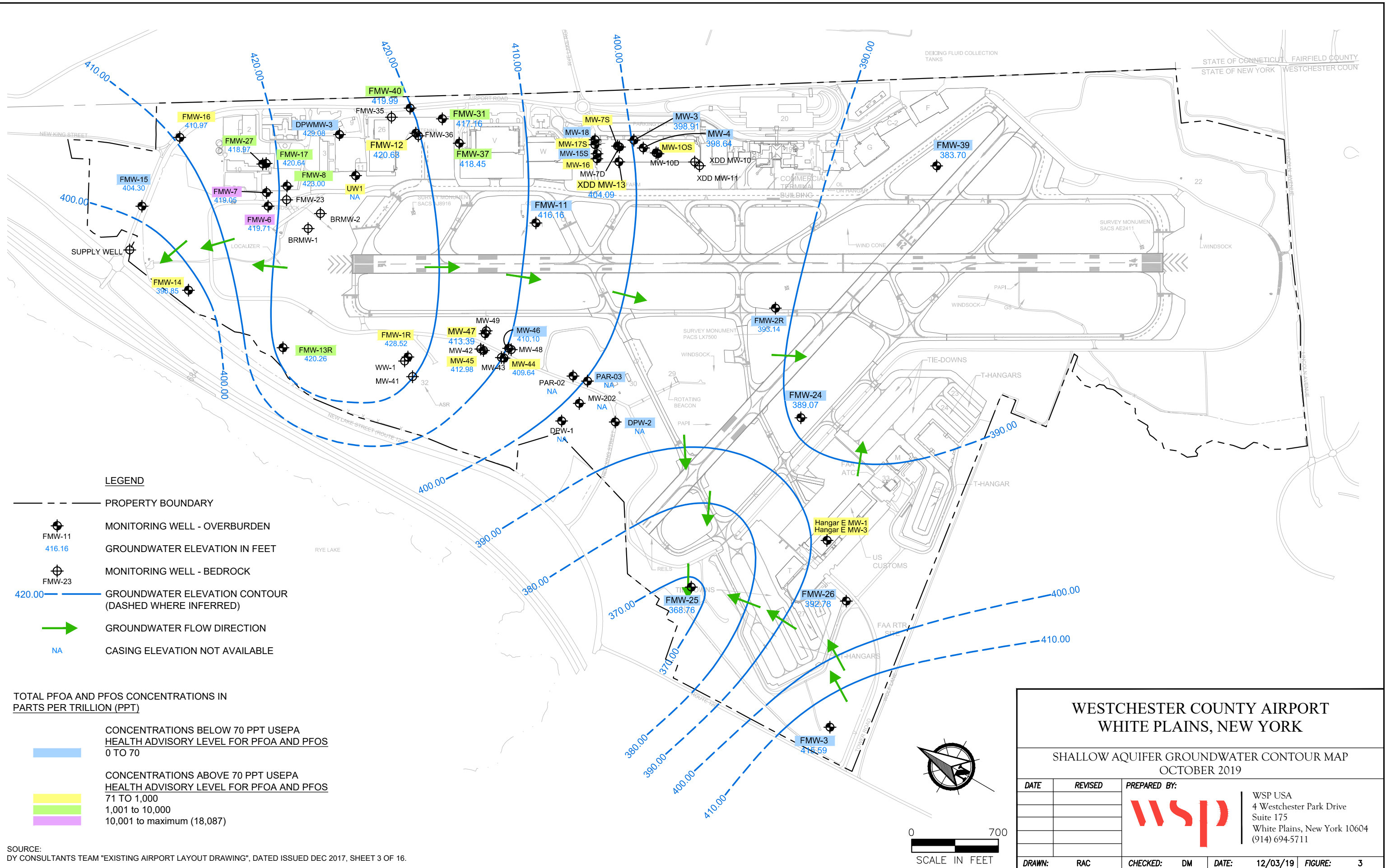


**WESTCHESTER COUNTY AIRPORT
WHITE PLAINS, NEW YORK**

WELLS SAMPLED FOR 1,4-DIOXANE
2018 AND 2019

DATE	REVISED	PREPARED BY:
		 WSP USA 4 Westchester Park Drive Suite 175 White Plains, New York 10604 (914) 694-5711
DRAWN:	RAC	CHECKED: JB
		DATE: 11/21/19
		FIGURE: 2

O:\DWG\Westchester County Airport\2019\F3_ShallowGW1910.dwg, Layout1, 12/3/2019 7:30:16 AM, DWG To PDF, pc3



- LEGEND**
- PROPERTY BOUNDARY
 - MONITORING WELL - OVERBURDEN
GROUNDWATER ELEVATION IN FEET
 - MONITORING WELL - BEDROCK
 - GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
 - GROUNDWATER FLOW DIRECTION
 - CASING ELEVATION NOT AVAILABLE

TOTAL PFOA AND PFOS CONCENTRATIONS IN PARTS PER TRILLION (PPT)

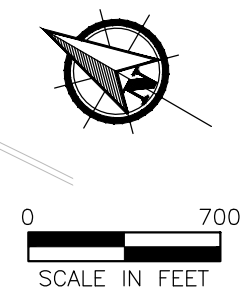
	CONCENTRATIONS BELOW 70 PPT USEPA HEALTH ADVISORY LEVEL FOR PFOA AND PFOS 0 TO 70
	CONCENTRATIONS ABOVE 70 PPT USEPA HEALTH ADVISORY LEVEL FOR PFOA AND PFOS 71 TO 1,000
	1,001 to 10,000
	10,001 to maximum (18,087)

**WESTCHESTER COUNTY AIRPORT
WHITE PLAINS, NEW YORK**

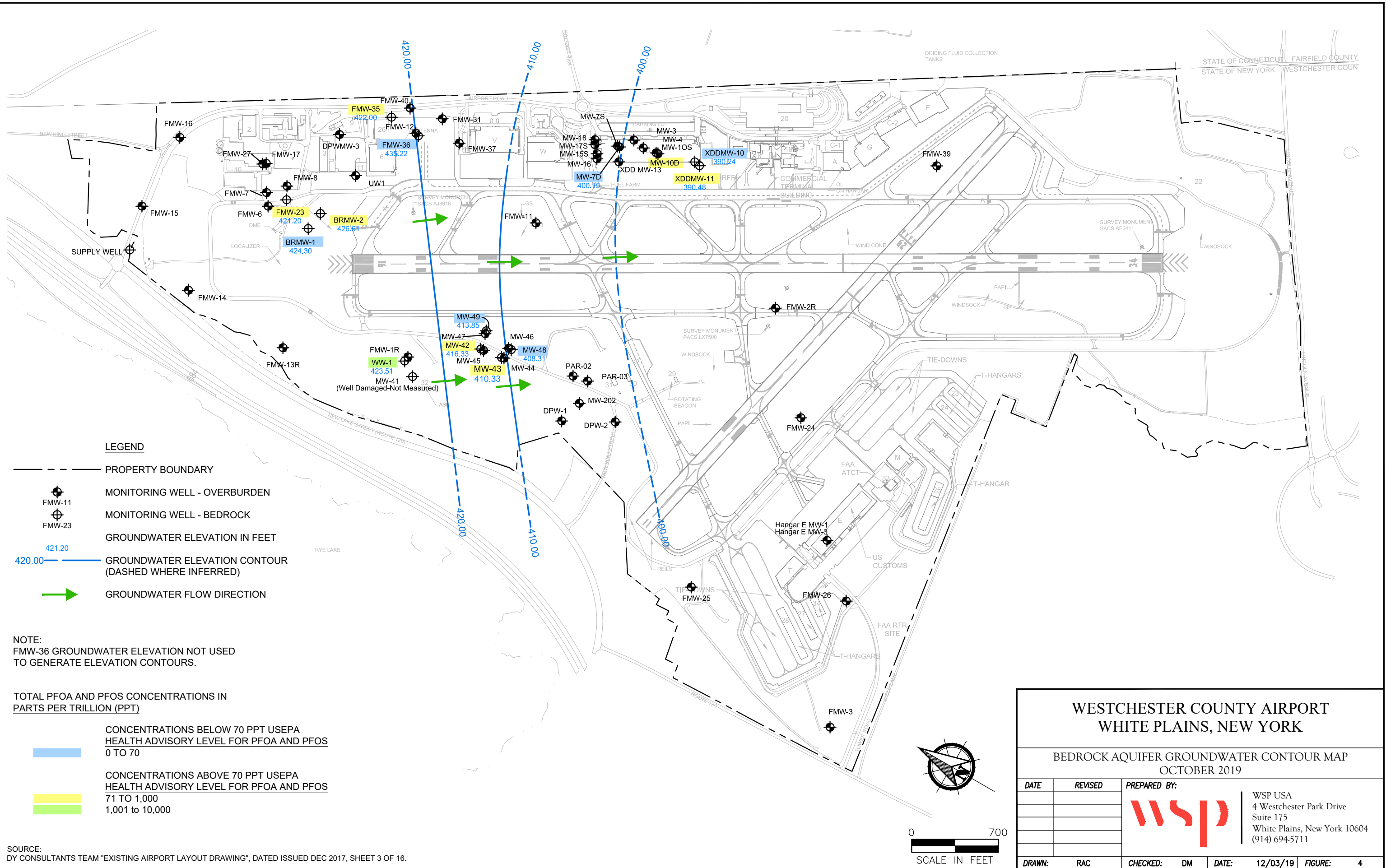
SHALLOW AQUIFER GROUNDWATER CONTOUR MAP
OCTOBER 2019

DATE	REVISED	PREPARED BY:	 WSP USA 4 Westchester Park Drive Suite 175 White Plains, New York 10604 (914) 694-5711
DRAWN:	RAC	CHECKED: DM	DATE: 12/03/19
		FIGURE:	3

SOURCE: DY CONSULTANTS TEAM "EXISTING AIRPORT LAYOUT DRAWING", DATED ISSUED DEC 2017, SHEET 3 OF 16.



O:\DWG\Westchester County Airport\2019\F4_BedrockGW1910.dwg, Layout1, 12/29/2019 7:15:10 AM, DWG To PDF, pcf



LEGEND

- PROPERTY BOUNDARY
- ⊕ FMW-11 MONITORING WELL - OVERBURDEN
- ⊕ FMW-23 MONITORING WELL - BEDROCK
- 421.20 GROUNDWATER ELEVATION IN FEET
- 420.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

NOTE:
FMW-36 GROUNDWATER ELEVATION NOT USED TO GENERATE ELEVATION CONTOURS.

TOTAL PFOA AND PFOS CONCENTRATIONS IN PARTS PER TRILLION (PPT)

	CONCENTRATIONS BELOW 70 PPT USEPA HEALTH ADVISORY LEVEL FOR PFOA AND PFOS 0 TO 70
	CONCENTRATIONS ABOVE 70 PPT USEPA HEALTH ADVISORY LEVEL FOR PFOA AND PFOS 71 TO 1,000
	1,001 to 10,000

**WESTCHESTER COUNTY AIRPORT
WHITE PLAINS, NEW YORK**

BEDROCK AQUIFER GROUNDWATER CONTOUR MAP
OCTOBER 2019

DATE	REVISED	PREPARED BY:	
			WSP USA 4 Westchester Park Drive Suite 175 White Plains, New York 10604 (914) 694-5711

DRAWN:	RAC	CHECKED:	DM	DATE:	12/03/19	FIGURE:	4
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SOURCE:
DY CONSULTANTS TEAM "EXISTING AIRPORT LAYOUT DRAWING", DATED ISSUED DEC 2017, SHEET 3 OF 16.



APPENDIX



Technical Report

prepared for:

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Report Date: 10/22/2019
Client Project ID: 31402218.000 Westchester County Airport (WCA)
York Project (SDG) No.: 19J0700

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
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Report Date: 10/22/2019
Client Project ID: 31402218.000 Westchester County Airport (WCA)
York Project (SDG) No.: 19J0700

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 16, 2019 and listed below. The project was identified as your project: **31402218.000 Westchester County Airport (WCA)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19J0700-01	WW-1	Water	10/15/2019	10/16/2019
19J0700-02	FMW-1R	Water	10/15/2019	10/16/2019
19J0700-03	MW-42	Water	10/15/2019	10/16/2019
19J0700-04	MW-45	Water	10/15/2019	10/16/2019
19J0700-05	MW-47	Water	10/15/2019	10/16/2019
19J0700-06	MW-49	Water	10/15/2019	10/16/2019
19J0700-07	MW-46	Water	10/15/2019	10/16/2019
19J0700-08	MW-48	Water	10/15/2019	10/16/2019
19J0700-09	MW-43	Water	10/15/2019	10/16/2019
19J0700-10	MW-44	Water	10/15/2019	10/16/2019
19J0700-11	Field Duplicate	Water	10/15/2019	10/16/2019
19J0700-12	Field Blank	Water	10/15/2019	10/16/2019
19J0700-13	Trip Blank	Water	10/15/2019	10/16/2019

General Notes for York Project (SDG) No.: 19J0700

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/22/2019





Sample Information

Client Sample ID: WW-1

York Sample ID: 19J0700-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 12:00 pm	10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	39.8		ng/L	25.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	37.5		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	61.8		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	30.2		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	588		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	90.2		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	30.6		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
375-95-1	* Perfluorononanoic acid (PFNA)	756		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	897		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	142		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	73.0		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 01:46	KT



Sample Information

Client Sample ID: WW-1 **York Sample ID:** 19J0700-01
York Project (SDG) No.: 19J0700 **Client Project ID:** 31402218.000 Westchester County Airport (WCA) **Matrix:** Water **Collection Date/Time:** October 15, 2019 12:00 pm **Date Received:** 10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result		Acceptance Range						
	Surrogate: M3PFBS	60.0 %		25-150						
	Surrogate: M5PFHxA	56.2 %		25-150						
	Surrogate: M4PFHpA	67.4 %		25-150						
	Surrogate: M3PFHxS	56.1 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	59.1 %		25-150						
	Surrogate: M6PFDA	61.1 %		25-150						
	Surrogate: M7PFUDA	53.0 %		25-150						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	37.0 %		25-150						
	Surrogate: M2PFTeDA	20.9 %		10-150						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	59.1 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	57.7 %		25-150						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	58.2 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	45.7 %		10-150						
	Surrogate: d3-N-MeFOSAA	55.0 %		25-150						
	Surrogate: d5-N-EtFOSAA	55.5 %		25-150						
	Surrogate: M2-6:2 FTS	65.9 %		25-150						
	Surrogate: M2-8:2 FTS	69.1 %		25-150						
	Surrogate: M9PFNA	58.4 %		25-150						

Sample Information

Client Sample ID: FMW-1R **York Sample ID:** 19J0700-02
York Project (SDG) No.: 19J0700 **Client Project ID:** 31402218.000 Westchester County Airport (WCA) **Matrix:** Water **Collection Date/Time:** October 15, 2019 10:45 am **Date Received:** 10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT



Sample Information

Client Sample ID: FMW-1R

York Sample ID: 19J0700-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 10:45 am

10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	33.8		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	10.5		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
375-95-1	* Perfluorononanoic acid (PFNA)	88.8		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	159		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	70.6		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	10.4		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	21.9		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	74.2		ng/L	10.0	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:13	KT
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M3PFBS	62.9 %		25-150						
	Surrogate: M5PFHxA	59.1 %		25-150						
	Surrogate: M4PFHpA	71.0 %		25-150						



Sample Information

Client Sample ID: FMW-1R

York Sample ID: 19J0700-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 10:45 am	10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	62.4 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	66.8 %			25-150					
	Surrogate: M6PFDA	66.8 %			25-150					
	Surrogate: M7PFUdA	58.7 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	54.9 %			25-150					
	Surrogate: M2PFTeDA	34.7 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	62.7 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	63.5 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	63.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	41.7 %			10-150					
	Surrogate: d3-N-MeFOSAA	61.9 %			25-150					
	Surrogate: d5-N-EtFOSAA	61.3 %			25-150					
	Surrogate: M2-6:2 FTS	77.4 %			25-150					
	Surrogate: M2-8:2 FTS	79.5 %			25-150					
	Surrogate: M9PFNA	67.4 %			25-150					

Sample Information

Client Sample ID: MW-42

York Sample ID: 19J0700-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 4:00 pm	10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ



Sample Information

Client Sample ID: MW-42

York Sample ID: 19J0700-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:00 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
95-63-6	1,2,4-Trimethylbenzene	1.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
78-93-3	2-Butanone	0.38	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ



Sample Information

Client Sample ID: MW-42

York Sample ID: 19J0700-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:00 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	0.45	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ



Sample Information

Client Sample ID: MW-42

York Sample ID: 19J0700-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:00 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:22	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 13:22	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	110 %	69-130
2037-26-5	Surrogate: SURRE: Toluene-d8	98.0 %	81-117
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	89.0 %	79-122

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-42

York Sample ID: 19J0700-03

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 4:00 pm	<u>Date Received</u> 10/16/2019
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Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	5.38		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	21.7		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	14.0		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	141		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	28.2		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	12.5		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
375-95-1	* Perfluorononanoic acid (PFNA)	135		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	132		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	37.4		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	30.4		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 02:40	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	63.2 %	25-150



Sample Information

Client Sample ID: MW-42

York Sample ID: 19J0700-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 4:00 pm	10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	61.3 %			25-150					
	Surrogate: M4PFHpA	73.1 %			25-150					
	Surrogate: M3PFHxS	60.1 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	61.8 %			25-150					
	Surrogate: M6PFDA	58.0 %			25-150					
	Surrogate: M7PFUdA	64.9 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	52.0 %			25-150					
	Surrogate: M2PFTeDA	47.2 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	62.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	61.9 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	61.1 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	55.7 %			10-150					
	Surrogate: d3-N-MeFOSAA	61.6 %			25-150					
	Surrogate: d5-N-EtFOSAA	63.4 %			25-150					
	Surrogate: M2-6:2 FTS	77.2 %			25-150					
	Surrogate: M2-8:2 FTS	82.3 %			25-150					
	Surrogate: M9PFNA	63.5 %			25-150					

Sample Information

Client Sample ID: MW-45

York Sample ID: 19J0700-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 4:05 pm	10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT



Sample Information

Client Sample ID: MW-45

York Sample ID: 19J0700-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:05 pm

10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	9.14		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	26.9		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	31.3		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	245		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	93.9		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	29.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
375-95-1	* Perfluorononanoic acid (PFNA)	48.8		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	261		ng/L	4.00	2	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 11:53	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	153		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	123		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	6.38		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:07	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	62.8 %	25-150
Surrogate: M5PFHxA	60.7 %	25-150
Surrogate: M4PFHpA	79.2 %	25-150
Surrogate: M3PFHxS	61.4 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	62.8 %	25-150
Surrogate: M6PFDA	74.7 %	25-150



Sample Information

Client Sample ID: MW-45

York Sample ID: 19J0700-04

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 4:05 pm	<u>Date Received</u> 10/16/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	64.7 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	54.4 %			25-150					
	Surrogate: M2PFTeDA	36.7 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	64.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	72.8 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	60.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	25.9 %			10-150					
	Surrogate: d3-N-MeFOSAA	65.1 %			25-150					
	Surrogate: d5-N-EtFOSAA	65.6 %			25-150					
	Surrogate: M2-6:2 FTS	84.3 %			25-150					
	Surrogate: M2-8:2 FTS	89.7 %			25-150					
	Surrogate: M9PFNA	62.3 %			25-150					

Sample Information

Client Sample ID: MW-47

York Sample ID: 19J0700-05

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 1:00 pm	<u>Date Received</u> 10/16/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT



Sample Information

Client Sample ID: MW-47

York Sample ID: 19J0700-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 1:00 pm

10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	11.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	12.4		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	92.2		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	20.3		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	15.6		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
375-95-1	* Perfluorononanoic acid (PFNA)	18.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	71.4		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	35.9		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	24.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	12.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 03:34	KT
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: M3PFBS	57.9 %					25-150			
	Surrogate: M5PFHxA	53.4 %					25-150			
	Surrogate: M4PFHpA	70.4 %					25-150			
	Surrogate: M3PFHxS	63.4 %					25-150			
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	65.6 %					25-150			
	Surrogate: M6PFDA	65.8 %					25-150			
	Surrogate: M7PFUdA	55.8 %					25-150			
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	45.8 %					25-150			
	Surrogate: M2PFTeDA	18.9 %					10-150			



Sample Information

Client Sample ID: MW-47

York Sample ID: 19J0700-05

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 1:00 pm	<u>Date Received</u> 10/16/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	66.3 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	65.1 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	50.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	22.9 %			10-150					
	Surrogate: d3-N-MeFOSAA	70.5 %			25-150					
	Surrogate: d5-N-EtFOSAA	69.1 %			25-150					
	Surrogate: M2-6:2 FTS	140 %			25-150					
	Surrogate: M2-8:2 FTS	124 %			25-150					
	Surrogate: M9PFNA	64.8 %			25-150					

Sample Information

Client Sample ID: MW-49

York Sample ID: 19J0700-06

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 12:50 pm	<u>Date Received</u> 10/16/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ



Sample Information

Client Sample ID: MW-49

York Sample ID: 19J0700-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 12:50 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
95-63-6	1,2,4-Trimethylbenzene	0.23	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
67-64-1	Acetone	1.2	CCV-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
74-83-9	Bromomethane	0.26	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ



Sample Information

Client Sample ID: MW-49

York Sample ID: 19J0700-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 12:50 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	0.32	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ



Sample Information

Client Sample ID: MW-49

York Sample ID: 19J0700-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 12:50 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 13:49	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 13:49	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	104 %	69-130
2037-26-5	Surrogate: <i>SURR:</i> <i>Toluene-d8</i>	97.4 %	81-117
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	97.2 %	79-122

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	12.1		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT



Sample Information

Client Sample ID: MW-49

York Sample ID: 19J0700-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 12:50 pm

10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	4.48		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	11.8		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	28.8		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	37.8		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	20.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
375-95-1	* Perfluorononanoic acid (PFNA)	22.5		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	37.5		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	13.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	63.8		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:00	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	60.1 %	25-150
Surrogate: M5PFHxA	54.9 %	25-150
Surrogate: M4PFHpA	70.1 %	25-150
Surrogate: M3PFHxS	60.0 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	58.3 %	25-150
Surrogate: M6PFDA	61.4 %	25-150



Sample Information

Client Sample ID: MW-49

York Sample ID: 19J0700-06

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 12:50 pm	<u>Date Received</u> 10/16/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	55.9 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	42.6 %			25-150					
	Surrogate: M2PFTeDA	24.4 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	57.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	61.1 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	56.9 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	39.2 %			10-150					
	Surrogate: d3-N-MeFOSAA	55.6 %			25-150					
	Surrogate: d5-N-EtFOSAA	56.4 %			25-150					
	Surrogate: M2-6:2 FTS	77.9 %			25-150					
	Surrogate: M2-8:2 FTS	80.6 %			25-150					
	Surrogate: M9PFNA	60.9 %			25-150					

Sample Information

Client Sample ID: MW-46

York Sample ID: 19J0700-07

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 1:30 pm	<u>Date Received</u> 10/16/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	7.28		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT



Sample Information

Client Sample ID: MW-46

York Sample ID: 19J0700-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 1:30 pm

10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	10.5		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	33.7		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	73.4		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	63.6		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	34.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
375-95-1	* Perfluorononanoic acid (PFNA)	12.2		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	19.8		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	27.8		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	88.9		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 04:27	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	57.9 %	25-150
Surrogate: M5PFHxA	55.7 %	25-150
Surrogate: M4PFHpA	69.3 %	25-150
Surrogate: M3PFHxS	59.1 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	60.5 %	25-150
Surrogate: M6PFDA	58.5 %	25-150
Surrogate: M7PFUdA	54.4 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	53.5 %	25-150
Surrogate: M2PFTeDA	50.8 %	10-150



Sample Information

Client Sample ID: MW-46

York Sample ID: 19J0700-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 1:30 pm	10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	60.3 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	62.4 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	54.7 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	47.8 %			10-150					
	Surrogate: d3-N-MeFOSAA	61.8 %			25-150					
	Surrogate: d5-N-EtFOSAA	62.5 %			25-150					
	Surrogate: M2-6:2 FTS	115 %			25-150					
	Surrogate: M2-8:2 FTS	87.2 %			25-150					
	Surrogate: M9PFNA	64.5 %			25-150					

Sample Information

Client Sample ID: MW-48

York Sample ID: 19J0700-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 2:45 pm	10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ



Sample Information

Client Sample ID: MW-48

York Sample ID: 19J0700-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 2:45 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
78-93-3	2-Butanone	0.74	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ



Sample Information

Client Sample ID: MW-48

York Sample ID: 19J0700-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 2:45 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ



Sample Information

Client Sample ID: MW-48

York Sample ID: 19J0700-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 2:45 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:16	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 14:16	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	101 %	69-130
2037-26-5	Surrogate: SURR: Toluene-d8	96.8 %	81-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	99.1 %	79-122

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT



Sample Information

Client Sample ID: MW-48

York Sample ID: 19J0700-08

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 2:45 pm	<u>Date Received</u> 10/16/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	18.0		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	23.3		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	69.9		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	77.5		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	35.5		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
375-95-1	* Perfluorononanoic acid (PFNA)	15.0		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	30.0		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	24.8		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	107		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 05:21	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	57.4 %	25-150
Surrogate: M5PFHxA	52.0 %	25-150
Surrogate: M4PFHpA	66.9 %	25-150
Surrogate: M3PFHxS	58.0 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	57.9 %	25-150
Surrogate: M6PFDA	61.1 %	25-150



Sample Information

Client Sample ID: MW-48

York Sample ID: 19J0700-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 2:45 pm	10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	62.4 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	55.0 %			25-150					
	Surrogate: M2PFTeDA	43.1 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	54.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	61.2 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	53.7 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	56.8 %			10-150					
	Surrogate: d3-N-MeFOSAA	65.6 %			25-150					
	Surrogate: d5-N-EtFOSAA	79.9 %			25-150					
	Surrogate: M2-6:2 FTS	96.1 %			25-150					
	Surrogate: M2-8:2 FTS	113 %			25-150					
	Surrogate: M9PFNA	61.1 %			25-150					

Sample Information

Client Sample ID: MW-43

York Sample ID: 19J0700-09

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 4:45 pm	10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ



Sample Information

Client Sample ID: MW-43

York Sample ID: 19J0700-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:45 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
78-93-3	2-Butanone	0.33	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ



Sample Information

Client Sample ID: MW-43

York Sample ID: 19J0700-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:45 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	5.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ



Sample Information

Client Sample ID: MW-43

York Sample ID: 19J0700-09

York Project (SDG) No.

Client Project ID

Matrix

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19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:45 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 14:43	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 14:43	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	106 %	69-130
2037-26-5	Surrogate: SURRE: Toluene-d8	99.6 %	81-117
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	97.7 %	79-122

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT



Sample Information

Client Sample ID: MW-43

York Sample ID: 19J0700-09

York Project (SDG) No.

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31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:45 pm

10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	8.14		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	5.39		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	14.6		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	42.7		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	155		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	93.6		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	44.2		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
375-95-1	* Perfluorononanoic acid (PFNA)	51.0		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	256		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	77.0		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	122		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 06:42	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	56.9 %	25-150
Surrogate: M5PFHxA	54.4 %	25-150
Surrogate: M4PFHpA	67.4 %	25-150



Sample Information

Client Sample ID: MW-43					York Sample ID: 19J0700-09
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>	
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 4:45 pm	10/16/2019	

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	57.8 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	56.9 %			25-150					
	Surrogate: M6PFDA	50.5 %			25-150					
	Surrogate: M7PFUdA	51.4 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	42.5 %			25-150					
	Surrogate: M2PFTeDA	18.8 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	57.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	57.7 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	53.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	48.2 %			10-150					
	Surrogate: d3-N-MeFOSAA	57.4 %			25-150					
	Surrogate: d5-N-EtFOSAA	57.7 %			25-150					
	Surrogate: M2-6:2 FTS	83.4 %			25-150					
	Surrogate: M2-8:2 FTS	82.9 %			25-150					
	Surrogate: M9PFNA	56.4 %			25-150					

Sample Information

Client Sample ID: MW-44					York Sample ID: 19J0700-10
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>	
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 4:25 pm	10/16/2019	

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ



Sample Information

Client Sample ID: MW-44

York Sample ID: 19J0700-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:25 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
78-93-3	2-Butanone	0.29	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ



Sample Information

Client Sample ID: MW-44

York Sample ID: 19J0700-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:25 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows list various chemical compounds like Bromochloromethane, Chlorobenzene, etc.



Sample Information

Client Sample ID: MW-44

York Sample ID: 19J0700-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:25 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 15:10	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	106 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	98.3 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	100 %	79-122								

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-44

York Sample ID: 19J0700-10

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 4:25 pm	10/16/2019

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	4.05		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	18.2		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	18.7		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	134		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	40.6		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	22.9		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
375-95-1	* Perfluorononanoic acid (PFNA)	28.4		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	155		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	65.5		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	52.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	4.94		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:09	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		60.8 %	25-150							



Sample Information

Client Sample ID: MW-44

York Sample ID: 19J0700-10

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 4:25 pm	<u>Date Received</u> 10/16/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	57.1 %			25-150					
	Surrogate: M4PFHpA	72.1 %			25-150					
	Surrogate: M3PFHxS	61.2 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	62.8 %			25-150					
	Surrogate: M6PFDA	70.7 %			25-150					
	Surrogate: M7PFUdA	59.4 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	54.7 %			25-150					
	Surrogate: M2PFTeDA	43.7 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	62.8 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	65.1 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	59.2 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	51.3 %			10-150					
	Surrogate: d3-N-MeFOSAA	67.9 %			25-150					
	Surrogate: d5-N-EtFOSAA	67.9 %			25-150					
	Surrogate: M2-6:2 FTS	95.9 %			25-150					
	Surrogate: M2-8:2 FTS	100 %			25-150					
	Surrogate: M9PFNA	67.0 %			25-150					

Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0700-11

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 12:00 am	<u>Date Received</u> 10/16/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0700-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 12:00 am

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0700-11

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 12:00 am	<u>Date Received</u> 10/16/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0700-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 12:00 am

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 15:37	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	108 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	100 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	97.7 %	79-122								

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0700-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 12:00 am	10/16/2019

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	4.72		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	18.6		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	18.7		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	132		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	38.2		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	23.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
375-95-1	* Perfluorononanoic acid (PFNA)	28.2		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	168		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	68.1		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	53.9		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	4.42		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 07:36	KT
Surrogate Recoveries		Result	Acceptance Range							
<i>Surrogate: M3PFBS</i>		<i>57.6 %</i>	<i>25-150</i>							



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0700-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 12:00 am	10/16/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	54.9 %			25-150					
	Surrogate: M4PFHpA	67.4 %			25-150					
	Surrogate: M3PFHxS	57.5 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	56.0 %			25-150					
	Surrogate: M6PFDA	55.1 %			25-150					
	Surrogate: M7PFUdA	53.7 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	43.0 %			25-150					
	Surrogate: M2PFTeDA	38.3 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	58.9 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	54.7 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	55.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	43.2 %			10-150					
	Surrogate: d3-N-MeFOSAA	57.0 %			25-150					
	Surrogate: d5-N-EtFOSAA	58.5 %			25-150					
	Surrogate: M2-6:2 FTS	84.5 %			25-150					
	Surrogate: M2-8:2 FTS	80.5 %			25-150					
	Surrogate: M9PFNA	56.6 %			25-150					

Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0700-12

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0700	31402218.000 Westchester County Airport (WCA)	Water	October 15, 2019 4:50 pm	10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0700-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:50 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0700-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:50 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
74-83-9	Bromomethane	0.39	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0700-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 4:50 pm

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	1.2	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:56	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 11:56	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	110 %	69-130
2037-26-5	Surrogate: SURR: Toluene-d8	97.6 %	81-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	94.8 %	79-122

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0700-12

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 4:50 pm	<u>Date Received</u> 10/16/2019
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Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/21/2019 11:27	10/22/2019 08:03	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	63.5 %	25-150
Surrogate: M5PFHxA	57.6 %	25-150



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0700-12

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 4:50 pm	<u>Date Received</u> 10/16/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M4PFHpA	68.9 %			25-150					
	Surrogate: M3PFHxS	61.6 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	63.5 %			25-150					
	Surrogate: M6PFDA	58.2 %			25-150					
	Surrogate: M7PFUdA	54.9 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	45.8 %			25-150					
	Surrogate: M2PFTeDA	33.2 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	60.1 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	62.2 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	59.8 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	53.3 %			10-150					
	Surrogate: d3-N-MeFOSAA	61.4 %			25-150					
	Surrogate: d5-N-EtFOSAA	61.9 %			25-150					
	Surrogate: M2-6:2 FTS	71.8 %			25-150					
	Surrogate: M2-8:2 FTS	77.5 %			25-150					
	Surrogate: M9PFNA	57.5 %			25-150					

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0700-13

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 12:00 am	<u>Date Received</u> 10/16/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0700-13

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 12:00 am	<u>Date Received</u> 10/16/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
78-93-3	2-Butanone	0.28	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0700-13

<u>York Project (SDG) No.</u> 19J0700	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 15, 2019 12:00 am	<u>Date Received</u> 10/16/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
74-83-9	Bromomethane	0.23	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0700-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0700

31402218.000 Westchester County Airport (WCA)

Water

October 15, 2019 12:00 am

10/16/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/18/2019 06:46	10/18/2019 11:03	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	99.4 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	79-122								



Analytical Batch Summary

Batch ID: BJ91073

Preparation Method: EPA 5030B

Prepared By: LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19J0700-03	MW-42	10/18/19
19J0700-06	MW-49	10/18/19
19J0700-08	MW-48	10/18/19
19J0700-09	MW-43	10/18/19
19J0700-10	MW-44	10/18/19
19J0700-11	Field Duplicate	10/18/19
19J0700-12	Field Blank	10/18/19
19J0700-13	Trip Blank	10/18/19
BJ91073-BLK1	Blank	10/18/19
BJ91073-BS1	LCS	10/18/19
BJ91073-BSD1	LCS Dup	10/18/19
BJ91073-MS1	Matrix Spike	10/18/19
BJ91073-MSD1	Matrix Spike Dup	10/18/19

Batch ID: BJ91205

Preparation Method: SPE Ext-PFAS-EPA 537.1M

Prepared By: WL

YORK Sample ID	Client Sample ID	Preparation Date
19J0700-01	WW-1	10/21/19
19J0700-02	FMW-1R	10/21/19
19J0700-03	MW-42	10/21/19
19J0700-04	MW-45	10/21/19
19J0700-04RE1	MW-45	10/21/19
19J0700-05	MW-47	10/21/19
19J0700-06	MW-49	10/21/19
19J0700-07	MW-46	10/21/19
19J0700-08	MW-48	10/21/19
19J0700-09	MW-43	10/21/19
19J0700-10	MW-44	10/21/19
19J0700-11	Field Duplicate	10/21/19
19J0700-12	Field Blank	10/21/19
BJ91205-BLK1	Blank	10/21/19
BJ91205-BS1	LCS	10/21/19
BJ91205-MS1	Matrix Spike	10/21/19
BJ91205-MSD1	Matrix Spike Dup	10/21/19



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91073 - EPA 5030B

Blank (BJ91073-BLK1)

Prepared & Analyzed: 10/18/2019

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	0.29	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	0.52	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	0.25	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91073 - EPA 5030B

Blank (BJ91073-BLK1)

Prepared & Analyzed: 10/18/2019

Methylene chloride	ND	2.0	ug/L								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
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Surrogate: SURRE: 1,2-Dichloroethane-d4	10.7		"	10.0		107	69-130				
Surrogate: SURRE: Toluene-d8	9.85		"	10.0		98.5	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.66		"	10.0		96.6	79-122				

LCS (BJ91073-BS1)

Prepared & Analyzed: 10/18/2019

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		105	82-126				
1,1,1-Trichloroethane	10		"	10.0		104	78-136				
1,1,2,2-Tetrachloroethane	12		"	10.0		118	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		108	54-165				
1,1,2-Trichloroethane	11		"	10.0		108	82-123				
1,1-Dichloroethane	11		"	10.0		109	82-129				
1,1-Dichloroethylene	9.5		"	10.0		95.4	68-138				
1,2,3-Trichlorobenzene	8.6		"	10.0		85.5	76-136				
1,2,3-Trichloropropane	12		"	10.0		115	77-128				
1,2,4-Trichlorobenzene	8.6		"	10.0		85.9	76-137				
1,2,4-Trimethylbenzene	10		"	10.0		104	82-132				
1,2-Dibromo-3-chloropropane	11		"	10.0		110	45-147				
1,2-Dibromoethane	11		"	10.0		112	83-124				
1,2-Dichlorobenzene	11		"	10.0		110	79-123				
1,2-Dichloroethane	11		"	10.0		110	73-132				
1,2-Dichloropropane	10		"	10.0		99.8	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		104	80-131				
1,3-Dichlorobenzene	10		"	10.0		103	86-122				
1,4-Dichlorobenzene	11		"	10.0		106	85-124				
1,4-Dioxane	350		"	210		166	10-349				
2-Butanone	11		"	10.0		108	49-152				
2-Hexanone	10		"	10.0		103	51-146				
4-Methyl-2-pentanone	11		"	10.0		105	57-145				
Acetone	9.7		"	10.0		97.2	14-150				
Acrolein	5.2		"	10.0		51.6	10-153				
Acrylonitrile	11		"	10.0		115	51-150				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

Batch BJ91073 - EPA 5030B

LCS (BJ91073-BS1)

Prepared & Analyzed: 10/18/2019

Benzene	11		ug/L	10.0		108	85-126			
Bromochloromethane	12		"	10.0		121	77-128			
Bromodichloromethane	10		"	10.0		105	79-128			
Bromoform	11		"	10.0		111	78-133			
Bromomethane	7.8		"	10.0		78.5	43-168			
Carbon disulfide	8.2		"	10.0		82.3	68-146			
Carbon tetrachloride	10		"	10.0		101	77-141			
Chlorobenzene	10		"	10.0		104	88-120			
Chloroethane	11		"	10.0		108	65-136			
Chloroform	11		"	10.0		106	82-128			
Chloromethane	7.4		"	10.0		73.5	43-155			
cis-1,2-Dichloroethylene	11		"	10.0		107	83-129			
cis-1,3-Dichloropropylene	10		"	10.0		100	80-131			
Cyclohexane	4.5		"	10.0		45.4	63-149	Low Bias		
Dibromochloromethane	11		"	10.0		108	80-130			
Dibromomethane	11		"	10.0		107	72-134			
Dichlorodifluoromethane	6.3		"	10.0		63.0	44-144			
Ethyl Benzene	11		"	10.0		108	80-131			
Hexachlorobutadiene	8.0		"	10.0		80.4	67-146			
Isopropylbenzene	10		"	10.0		104	76-140			
Methyl acetate	12		"	10.0		117	51-139			
Methyl tert-butyl ether (MTBE)	12		"	10.0		118	76-135			
Methylcyclohexane	9.5		"	10.0		95.3	72-143			
Methylene chloride	11		"	10.0		113	55-137			
n-Butylbenzene	12		"	10.0		118	79-132			
n-Propylbenzene	11		"	10.0		108	78-133			
o-Xylene	10		"	10.0		105	78-130			
p- & m- Xylenes	22		"	20.0		108	77-133			
p-Isopropyltoluene	11		"	10.0		107	81-136			
sec-Butylbenzene	11		"	10.0		110	79-137			
Styrene	11		"	10.0		107	67-132			
tert-Butyl alcohol (TBA)	56		"	50.0		111	25-162			
tert-Butylbenzene	9.1		"	10.0		91.1	77-138			
Tetrachloroethylene	8.8		"	10.0		88.4	82-131			
Toluene	10		"	10.0		102	80-127			
trans-1,2-Dichloroethylene	10		"	10.0		101	80-132			
trans-1,3-Dichloropropylene	10		"	10.0		105	78-131			
trans-1,4-dichloro-2-butene	10		"	10.0		103	63-141			
Trichloroethylene	9.9		"	10.0		98.7	82-128			
Trichlorofluoromethane	11		"	10.0		114	67-139			
Vinyl Chloride	8.5		"	10.0		84.9	58-145			
Surrogate: SURR: 1,2-Dichloroethane-d4	10.5		"	10.0		105	69-130			
Surrogate: SURR: Toluene-d8	9.69		"	10.0		96.9	81-117			
Surrogate: SURR: p-Bromofluorobenzene	9.53		"	10.0		95.3	79-122			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91073 - EPA 5030B											
LCS Dup (BJ91073-BSD1)											
Prepared & Analyzed: 10/18/2019											
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		107	82-126		1.88	30	
1,1,1-Trichloroethane	11		"	10.0		105	78-136		0.860	30	
1,1,2,2-Tetrachloroethane	12		"	10.0		117	76-129		0.594	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		109	54-165		0.643	30	
1,1,2-Trichloroethane	11		"	10.0		107	82-123		0.839	30	
1,1-Dichloroethane	11		"	10.0		109	82-129		0.00	30	
1,1-Dichloroethylene	9.6		"	10.0		95.9	68-138		0.523	30	
1,2,3-Trichlorobenzene	9.3		"	10.0		92.6	76-136		7.97	30	
1,2,3-Trichloropropane	11		"	10.0		115	77-128		0.0870	30	
1,2,4-Trichlorobenzene	9.3		"	10.0		93.2	76-137		8.15	30	
1,2,4-Trimethylbenzene	10		"	10.0		105	82-132		0.862	30	
1,2-Dibromo-3-chloropropane	11		"	10.0		113	45-147		2.77	30	
1,2-Dibromoethane	11		"	10.0		110	83-124		1.44	30	
1,2-Dichlorobenzene	11		"	10.0		109	79-123		0.916	30	
1,2-Dichloroethane	11		"	10.0		109	73-132		0.548	30	
1,2-Dichloropropane	10		"	10.0		102	78-126		2.38	30	
1,3,5-Trimethylbenzene	11		"	10.0		106	80-131		1.52	30	
1,3-Dichlorobenzene	10		"	10.0		104	86-122		0.579	30	
1,4-Dichlorobenzene	11		"	10.0		105	85-124		0.380	30	
1,4-Dioxane	290		"	210		136	10-349		19.9	30	
2-Butanone	10		"	10.0		102	49-152		5.60	30	
2-Hexanone	11		"	10.0		105	51-146		1.92	30	
4-Methyl-2-pentanone	11		"	10.0		106	57-145		0.285	30	
Acetone	9.3		"	10.0		93.0	14-150		4.42	30	
Acrolein	4.8		"	10.0		48.3	10-153		6.61	30	
Acrylonitrile	4.7		"	10.0		47.0	51-150	Low Bias	83.7	30	Non-dir.
Benzene	11		"	10.0		108	85-126		0.464	30	
Bromochloromethane	12		"	10.0		119	77-128		1.42	30	
Bromodichloromethane	11		"	10.0		106	79-128		0.950	30	
Bromoform	11		"	10.0		113	78-133		1.70	30	
Bromomethane	8.7		"	10.0		86.7	43-168		9.93	30	
Carbon disulfide	8.2		"	10.0		82.1	68-146		0.243	30	
Carbon tetrachloride	10		"	10.0		103	77-141		1.96	30	
Chlorobenzene	10		"	10.0		103	88-120		0.871	30	
Chloroethane	10		"	10.0		103	65-136		4.81	30	
Chloroform	11		"	10.0		107	82-128		0.562	30	
Chloromethane	8.0		"	10.0		79.5	43-155		7.84	30	
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129		1.12	30	
cis-1,3-Dichloropropylene	10		"	10.0		100	80-131		0.0999	30	
Cyclohexane	4.7		"	10.0		47.2	63-149	Low Bias	3.89	30	
Dibromochloromethane	11		"	10.0		110	80-130		1.74	30	
Dibromomethane	10		"	10.0		104	72-134		2.84	30	
Dichlorodifluoromethane	6.4		"	10.0		64.4	44-144		2.20	30	
Ethyl Benzene	11		"	10.0		110	80-131		1.92	30	
Hexachlorobutadiene	8.8		"	10.0		87.9	67-146		8.91	30	
Isopropylbenzene	10		"	10.0		103	76-140		0.483	30	
Methyl acetate	12		"	10.0		118	51-139		0.680	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		115	76-135		3.00	30	
Methylcyclohexane	10		"	10.0		102	72-143		6.30	30	
Methylene chloride	11		"	10.0		110	55-137		2.15	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

Batch BJ91073 - EPA 5030B

LCS Dup (BJ91073-BSD1)

Prepared & Analyzed: 10/18/2019

n-Butylbenzene	12		ug/L	10.0		121	79-132		2.43	30
n-Propylbenzene	11		"	10.0		108	78-133		0.0928	30
o-Xylene	11		"	10.0		106	78-130		1.04	30
p- & m- Xylenes	22		"	20.0		108	77-133		0.00	30
p-Isopropyltoluene	11		"	10.0		109	81-136		1.48	30
sec-Butylbenzene	11		"	10.0		113	79-137		2.61	30
Styrene	11		"	10.0		110	67-132		2.03	30
tert-Butyl alcohol (TBA)	53		"	50.0		107	25-162		3.99	30
tert-Butylbenzene	9.3		"	10.0		92.8	77-138		1.85	30
Tetrachloroethylene	9.0		"	10.0		90.0	82-131		1.79	30
Toluene	10		"	10.0		105	80-127		2.81	30
trans-1,2-Dichloroethylene	10		"	10.0		101	80-132		0.199	30
trans-1,3-Dichloropropylene	11		"	10.0		106	78-131		0.950	30
trans-1,4-dichloro-2-butene	9.9		"	10.0		99.2	63-141		4.15	30
Trichloroethylene	9.9		"	10.0		99.2	82-128		0.505	30
Trichlorofluoromethane	12		"	10.0		116	67-139		1.56	30
Vinyl Chloride	8.7		"	10.0		87.0	58-145		2.44	30
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.6</i>		<i>"</i>	<i>10.0</i>		<i>106</i>	<i>69-130</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.79</i>		<i>"</i>	<i>10.0</i>		<i>97.9</i>	<i>81-117</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.60</i>		<i>"</i>	<i>10.0</i>		<i>96.0</i>	<i>79-122</i>			

Matrix Spike (BJ91073-MS1)

*Source sample: 19J0700-08 (MW-48)

Prepared & Analyzed: 10/18/2019

1,1,1,2-Tetrachloroethane	10		ug/L	10.0	0.0	102	45-161			
1,1,1-Trichloroethane	10		"	10.0	0.0	103	70-146			
1,1,2,2-Tetrachloroethane	11		"	10.0	0.0	110	74-121			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0	0.0	104	21-217			
1,1,2-Trichloroethane	10		"	10.0	0.0	100	59-146			
1,1-Dichloroethane	10		"	10.0	0.0	104	54-146			
1,1-Dichloroethylene	9.5		"	10.0	0.0	94.6	44-165			
1,2,3-Trichlorobenzene	6.4		"	10.0	0.0	63.8	40-161			
1,2,3-Trichloropropane	11		"	10.0	0.0	107	74-127			
1,2,4-Trichlorobenzene	7.1		"	10.0	0.0	71.3	41-161			
1,2,4-Trimethylbenzene	10		"	10.0	0.0	102	72-129			
1,2-Dibromo-3-chloropropane	10		"	10.0	0.0	104	31-151			
1,2-Dibromoethane	10		"	10.0	0.0	101	75-125			
1,2-Dichlorobenzene	10		"	10.0	0.0	100	63-122			
1,2-Dichloroethane	10		"	10.0	0.0	105	68-131			
1,2-Dichloropropane	9.7		"	10.0	0.0	97.0	77-121			
1,3,5-Trimethylbenzene	9.5		"	10.0	0.0	95.3	69-126			
1,3-Dichlorobenzene	9.4		"	10.0	0.0	94.2	74-119			
1,4-Dichlorobenzene	9.6		"	10.0	0.0	95.9	70-124			
1,4-Dioxane	260		"	210	0.0	122	10-310			
2-Butanone	8.8		"	10.0	0.74	80.1	10-193			
2-Hexanone	9.4		"	10.0	0.0	93.6	53-133			
4-Methyl-2-pentanone	9.9		"	10.0	0.0	98.6	38-150			
Acetone	8.4		"	10.0	0.88	74.9	13-149			
Acrolein	5.2		"	10.0	0.0	52.5	10-195			
Acrylonitrile	11		"	10.0	0.0	112	37-165			
Benzene	10		"	10.0	0.0	105	38-155			
Bromochloromethane	11		"	10.0	0.0	109	75-121			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91073 - EPA 5030B

Matrix Spike (BJ91073-MS1)	*Source sample: 19J0700-08 (MW-48)				Prepared & Analyzed: 10/18/2019			
Bromodichloromethane	9.9		ug/L	10.0	0.0	99.1	70-129	
Bromoform	10		"	10.0	0.0	99.5	66-136	
Bromomethane	5.7		"	10.0	0.0	56.8	30-158	
Carbon disulfide	7.7		"	10.0	0.0	77.2	10-138	
Carbon tetrachloride	10		"	10.0	0.0	102	71-146	
Chlorobenzene	9.8		"	10.0	0.0	98.5	81-117	
Chloroethane	10		"	10.0	0.0	102	51-145	
Chloroform	10		"	10.0	0.0	102	80-124	
Chloromethane	4.8		"	10.0	0.0	47.7	16-163	
cis-1,2-Dichloroethylene	10		"	10.0	0.0	101	76-125	
cis-1,3-Dichloropropylene	9.3		"	10.0	0.0	92.6	58-131	
Cyclohexane	4.7		"	10.0	0.0	46.6	70-130	Low Bias
Dibromochloromethane	10		"	10.0	0.0	100	71-129	
Dibromomethane	9.9		"	10.0	0.0	98.7	76-120	
Dichlorodifluoromethane	6.2		"	10.0	0.0	61.6	30-147	
Ethyl Benzene	10		"	10.0	0.0	102	72-128	
Hexachlorobutadiene	6.6		"	10.0	0.0	65.9	34-166	
Isopropylbenzene	9.8		"	10.0	0.0	97.6	66-139	
Methyl acetate	9.8		"	10.0	0.0	97.6	10-200	
Methyl tert-butyl ether (MTBE)	12		"	10.0	1.5	109	75-128	
Methylcyclohexane	9.4		"	10.0	0.0	93.9	70-130	
Methylene chloride	11		"	10.0	0.0	110	57-128	
n-Butylbenzene	8.3		"	10.0	0.0	83.3	61-138	
n-Propylbenzene	9.7		"	10.0	0.0	96.8	66-134	
o-Xylene	10		"	10.0	0.0	101	69-126	
p- & m- Xylenes	20		"	20.0	0.0	102	67-130	
p-Isopropyltoluene	9.8		"	10.0	0.0	97.8	64-137	
sec-Butylbenzene	10		"	10.0	0.0	104	53-155	
Styrene	9.8		"	10.0	0.0	97.9	69-125	
tert-Butyl alcohol (TBA)	54		"	50.0	0.0	108	10-130	
tert-Butylbenzene	8.9		"	10.0	0.0	89.2	65-139	
Tetrachloroethylene	8.0		"	10.0	0.0	80.4	64-139	
Toluene	9.7		"	10.0	0.0	96.8	76-123	
trans-1,2-Dichloroethylene	9.6		"	10.0	0.0	95.9	79-131	
trans-1,3-Dichloropropylene	9.3		"	10.0	0.0	93.1	55-130	
trans-1,4-dichloro-2-butene	9.0		"	10.0	0.0	89.7	25-155	
Trichloroethylene	9.4		"	10.0	0.0	93.5	53-145	
Trichlorofluoromethane	11		"	10.0	0.0	114	61-142	
Vinyl Chloride	8.2		"	10.0	0.0	81.8	31-165	
Surrogate: Surr: 1,2-Dichloroethane-d4	10.7		"	10.0		107	69-130	
Surrogate: Surr: Toluene-d8	9.82		"	10.0		98.2	81-117	
Surrogate: Surr: p-Bromofluorobenzene	9.89		"	10.0		98.9	79-122	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91073 - EPA 5030B											
Matrix Spike Dup (BJ91073-MSD1)	*Source sample: 19J0700-08 (MW-48)						Prepared & Analyzed: 10/18/2019				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0	0.0	99.6	45-161		1.89	30	
1,1,1-Trichloroethane	10		"	10.0	0.0	103	70-146		0.0970	30	
1,1,2,2-Tetrachloroethane	10		"	10.0	0.0	104	74-121		4.67	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0	0.0	115	21-217		10.4	30	
1,1,2-Trichloroethane	9.7		"	10.0	0.0	96.6	59-146		3.76	30	
1,1-Dichloroethane	10		"	10.0	0.0	105	54-146		0.957	30	
1,1-Dichloroethylene	9.8		"	10.0	0.0	98.0	44-165		3.53	30	
1,2,3-Trichlorobenzene	8.3		"	10.0	0.0	83.3	40-161		26.5	30	
1,2,3-Trichloropropane	10		"	10.0	0.0	101	74-127		5.39	30	
1,2,4-Trichlorobenzene	8.3		"	10.0	0.0	83.0	41-161		15.2	30	
1,2,4-Trimethylbenzene	10		"	10.0	0.0	99.7	72-129		2.28	30	
1,2-Dibromo-3-chloropropane	10		"	10.0	0.0	103	31-151		1.45	30	
1,2-Dibromoethane	10		"	10.0	0.0	101	75-125		0.296	30	
1,2-Dichlorobenzene	10		"	10.0	0.0	103	63-122		2.26	30	
1,2-Dichloroethane	11		"	10.0	0.0	105	68-131		0.286	30	
1,2-Dichloropropane	9.5		"	10.0	0.0	95.1	77-121		1.98	30	
1,3,5-Trimethylbenzene	9.8		"	10.0	0.0	98.0	69-126		2.79	30	
1,3-Dichlorobenzene	9.8		"	10.0	0.0	97.8	74-119		3.75	30	
1,4-Dichlorobenzene	9.8		"	10.0	0.0	97.6	70-124		1.76	30	
1,4-Dioxane	270		"	210	0.0	127	10-310		3.67	30	
2-Butanone	8.1		"	10.0	0.74	73.9	10-193		8.05	30	
2-Hexanone	9.2		"	10.0	0.0	91.5	53-133		2.27	30	
4-Methyl-2-pentanone	9.7		"	10.0	0.0	96.7	38-150		1.95	30	
Acetone	8.5		"	10.0	0.88	76.3	13-149		1.85	30	
Acrolein	4.9		"	10.0	0.0	48.7	10-195		7.51	30	
Acrylonitrile	14		"	10.0	0.0	136	37-165		19.5	30	
Benzene	10		"	10.0	0.0	103	38-155		1.15	30	
Bromochloromethane	11		"	10.0	0.0	110	75-121		0.547	30	
Bromodichloromethane	9.7		"	10.0	0.0	97.1	70-129		2.04	30	
Bromoform	9.8		"	10.0	0.0	97.9	66-136		1.62	30	
Bromomethane	7.4		"	10.0	0.0	74.1	30-158		26.4	30	
Carbon disulfide	8.0		"	10.0	0.0	80.3	10-138		3.94	30	
Carbon tetrachloride	10		"	10.0	0.0	104	71-146		2.03	30	
Chlorobenzene	10		"	10.0	0.0	100	81-117		2.01	30	
Chloroethane	10		"	10.0	0.0	100	51-145		1.58	30	
Chloroform	10		"	10.0	0.0	103	80-124		1.07	30	
Chloromethane	6.9		"	10.0	0.0	68.6	16-163		35.9	30	Non-dir.
cis-1,2-Dichloroethylene	10		"	10.0	0.0	103	76-125		1.47	30	
cis-1,3-Dichloropropylene	9.1		"	10.0	0.0	91.2	58-131		1.52	30	
Cyclohexane	5.0		"	10.0	0.0	49.6	70-130	Low Bias	6.24	30	
Dibromochloromethane	9.8		"	10.0	0.0	98.5	71-129		1.61	30	
Dibromomethane	9.7		"	10.0	0.0	97.3	76-120		1.43	30	
Dichlorodifluoromethane	6.7		"	10.0	0.0	66.8	30-147		8.10	30	
Ethyl Benzene	10		"	10.0	0.0	104	72-128		2.13	30	
Hexachlorobutadiene	7.6		"	10.0	0.0	76.1	34-166		14.4	30	
Isopropylbenzene	10		"	10.0	0.0	99.8	66-139		2.23	30	
Methyl acetate	10		"	10.0	0.0	100	10-200		2.73	30	
Methyl tert-butyl ether (MTBE)	12		"	10.0	1.5	108	75-128		0.460	30	
Methylcyclohexane	10		"	10.0	0.0	102	70-130		7.88	30	
Methylene chloride	11		"	10.0	0.0	113	57-128		2.15	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	
		Limit			Result				RPD	Limit
Batch BJ91073 - EPA 5030B										
Matrix Spike Dup (BJ91073-MSD1)	*Source sample: 19J0700-08 (MW-48)				Prepared & Analyzed: 10/18/2019					
n-Butylbenzene	9.2		ug/L	10.0	0.0	92.1	61-138		10.0	30
n-Propylbenzene	10		"	10.0	0.0	102	66-134		5.62	30
o-Xylene	10		"	10.0	0.0	101	69-126		0.198	30
p- & m- Xylenes	21		"	20.0	0.0	104	67-130		2.04	30
p-Isopropyltoluene	10		"	10.0	0.0	101	64-137		3.61	30
sec-Butylbenzene	11		"	10.0	0.0	107	53-155		3.42	30
Styrene	9.8		"	10.0	0.0	98.2	69-125		0.306	30
tert-Butyl alcohol (TBA)	56		"	50.0	0.0	111	10-130		2.78	30
tert-Butylbenzene	8.9		"	10.0	0.0	88.7	65-139		0.562	30
Tetrachloroethylene	8.7		"	10.0	0.0	86.9	64-139		7.77	30
Toluene	9.8		"	10.0	0.0	98.4	76-123		1.64	30
trans-1,2-Dichloroethylene	9.8		"	10.0	0.0	97.6	79-131		1.76	30
trans-1,3-Dichloropropylene	9.3		"	10.0	0.0	92.6	55-130		0.539	30
trans-1,4-dichloro-2-butene	9.6		"	10.0	0.0	95.7	25-155		6.47	30
Trichloroethylene	9.4		"	10.0	0.0	94.4	53-145		0.958	30
Trichlorofluoromethane	12		"	10.0	0.0	118	61-142		3.87	30
Vinyl Chloride	8.9		"	10.0	0.0	88.7	31-165		8.09	30
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.6</i>		<i>"</i>	<i>10.0</i>		<i>106</i>	<i>69-130</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.87</i>		<i>"</i>	<i>10.0</i>		<i>98.7</i>	<i>81-117</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.81</i>		<i>"</i>	<i>10.0</i>		<i>98.1</i>	<i>79-122</i>			



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91205 - SPE Ext-PFAS-EPA 537.1M

Blank (BJ91205-BLK1)

Prepared: 10/21/2019 Analyzed: 10/22/2019

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	ng/L								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
N-EtFOSAA	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTTrDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Surrogate: M3PFBS	46.3		"	74.3		62.3	25-150				
Surrogate: M5PFHxA	48.3		"	80.0		60.4	25-150				
Surrogate: M4PFHpA	57.6		"	80.0		71.9	25-150				
Surrogate: M3PFHxS	45.9		"	75.7		60.6	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	49.2		"	80.0		61.5	25-150				
Surrogate: M6PFDA	44.4		"	80.0		55.5	25-150				
Surrogate: M7PFUdA	40.6		"	80.0		50.8	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	34.3		"	80.0		42.9	25-150				
Surrogate: M2PFTeDA	28.3		"	80.0		35.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	48.5		"	80.0		60.6	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	45.5		"	76.6		59.4	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	49.4		"	80.0		61.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	42.1		"	80.0		52.6	10-150				
Surrogate: d3-N-MeFOSAA	47.4		"	80.0		59.2	25-150				
Surrogate: d5-N-EtFOSAA	49.1		"	80.0		61.4	25-150				
Surrogate: M2-6:2 FTS	48.5		"	75.9		63.9	25-150				
Surrogate: M2-8:2 FTS	41.6		"	76.6		54.2	25-150				
Surrogate: M9PFNA	49.9		"	80.0		62.4	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91205 - SPE Ext-PFAS-EPA 537.1M

LCS (BJ91205-BS1)

Prepared: 10/21/2019 Analyzed: 10/22/2019

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	83.4	2.00	ng/L	76.8		109	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	79.9	5.00	"	76.0		105	50-130				
N-EtFOSAA	83.6	2.00	"	80.0		105	50-130				
N-MeFOSAA	80.9	2.00	"	80.0		101	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	76.0	2.00	"	77.2		98.4	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	85.2	2.00	"	79.6		107	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	84.2	2.00	"	80.0		105	50-130				
Perfluorobutanesulfonic acid (PFBS)	78.4	2.00	"	70.8		111	50-130				
Perfluorodecanoic acid (PFDA)	79.0	2.00	"	80.0		98.7	50-130				
Perfluorododecanoic acid (PFDoA)	82.4	2.00	"	80.0		103	50-130				
Perfluoroheptanoic acid (PFHpA)	69.6	2.00	"	80.0		86.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	66.8	2.00	"	59.2		113	50-130				
Perfluorohexanoic acid (PFHxA)	80.5	2.00	"	80.0		101	50-130				
Perfluoro-n-butanoic acid (PFBA)	84.7	2.00	"	80.0		106	50-130				
Perfluorononanoic acid (PFNA)	80.8	2.00	"	76.8		105	50-130				
Perfluorooctanesulfonic acid (PFOS)	63.0	2.00	"	58.4		108	50-130				
Perfluorooctanoic acid (PFOA)	88.9	2.00	"	80.0		111	50-130				
Perfluoropentanoic acid (PFPeA)	82.5	2.00	"	80.0		103	50-130				
Perfluorotetradecanoic acid (PFTA)	83.3	2.00	"	80.0		104	50-130				
Perfluorotridecanoic acid (PFTTrDA)	78.0	2.00	"	80.0		97.5	50-130				
Perfluoroundecanoic acid (PFUnA)	71.0	2.00	"	80.0		88.7	50-130				
Surrogate: M3PFBS	53.3		"	74.3		71.7	25-150				
Surrogate: M5PFHxA	55.2		"	80.0		69.0	25-150				
Surrogate: M4PFHpA	64.7		"	80.0		80.8	25-150				
Surrogate: M3PFHxS	51.8		"	75.7		68.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	51.5		"	80.0		64.4	25-150				
Surrogate: M6PFDA	46.0		"	80.0		57.5	25-150				
Surrogate: M7PFUdA	49.1		"	80.0		61.4	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	41.7		"	80.0		52.1	25-150				
Surrogate: M2PFTeDA	36.1		"	80.0		45.1	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	57.7		"	80.0		72.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	52.2		"	76.6		68.2	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	57.8		"	80.0		72.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	48.2		"	80.0		60.3	10-150				
Surrogate: d3-N-MeFOSAA	58.2		"	80.0		72.7	25-150				
Surrogate: d5-N-EtFOSAA	55.3		"	80.0		69.2	25-150				
Surrogate: M2-6:2 FTS	46.1		"	75.9		60.7	25-150				
Surrogate: M2-8:2 FTS	42.5		"	76.6		55.4	25-150				
Surrogate: M9PFNA	54.0		"	80.0		67.5	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91205 - SPE Ext-PFAS-EPA 537.1M											
Matrix Spike (BJ91205-MS1)	*Source sample: 19J0700-08 (MW-48)						Prepared: 10/21/2019 Analyzed: 10/22/2019				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	82.8	2.00	ng/L	76.8	ND	108	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	80.7	5.00	"	76.0	ND	106	25-150				
N-EtFOSAA	83.0	2.00	"	80.0	ND	104	25-150				
N-MeFOSAA	83.4	2.00	"	80.0	ND	104	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	78.1	2.00	"	77.2	ND	101	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	91.1	2.00	"	79.6	ND	114	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	83.1	2.00	"	80.0	ND	104	25-150				
Perfluorobutanesulfonic acid (PFBS)	99.1	2.00	"	70.8	18.0	115	25-150				
Perfluorodecanoic acid (PFDA)	81.2	2.00	"	80.0	ND	102	25-150				
Perfluorododecanoic acid (PFDoA)	86.5	2.00	"	80.0	ND	108	25-150				
Perfluoroheptanoic acid (PFHpA)	99.7	2.00	"	80.0	23.3	95.5	25-150				
Perfluorohexanesulfonic acid (PFHxS)	150	2.00	"	59.2	69.9	135	25-150				
Perfluorohexanoic acid (PFHxA)	159	2.00	"	80.0	77.5	102	25-150				
Perfluoro-n-butanoic acid (PFBA)	123	2.00	"	80.0	35.5	109	25-150				
Perfluorononanoic acid (PFNA)	99.3	2.00	"	76.8	15.0	110	25-150				
Perfluorooctanesulfonic acid (PFOS)	114	2.00	"	58.4	30.0	145	25-150				
Perfluorooctanoic acid (PFOA)	116	2.00	"	80.0	24.8	114	25-150				
Perfluoropentanoic acid (PFPeA)	197	2.00	"	80.0	107	113	25-150				
Perfluorotetradecanoic acid (PFTA)	92.4	2.00	"	80.0	ND	115	25-150				
Perfluorotridecanoic acid (PFTTrDA)	89.1	2.00	"	80.0	ND	111	25-150				
Perfluoroundecanoic acid (PFUnA)	90.9	2.00	"	80.0	ND	114	25-150				
Surrogate: M3PFBS	45.3		"	74.3		61.0	25-150				
Surrogate: M5PFHxA	45.5		"	80.0		56.8	25-150				
Surrogate: M4PFHpA	55.6		"	80.0		69.5	25-150				
Surrogate: M3PFHxS	46.0		"	75.7		60.8	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	48.0		"	80.0		59.9	25-150				
Surrogate: M6PFDA	50.0		"	80.0		62.5	25-150				
Surrogate: M7PFUdA	46.2		"	80.0		57.7	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	40.7		"	80.0		50.8	25-150				
Surrogate: M2PFTeDA	38.7		"	80.0		48.3	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	46.9		"	80.0		58.6	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	49.2		"	76.6		64.3	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	45.2		"	80.0		56.5	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	40.1		"	80.0		50.1	10-150				
Surrogate: d3-N-MeFOSAA	53.8		"	80.0		67.2	25-150				
Surrogate: d5-N-EtFOSAA	49.8		"	80.0		62.2	25-150				
Surrogate: M2-6:2 FTS	62.0		"	75.9		81.6	25-150				
Surrogate: M2-8:2 FTS	60.2		"	76.6		78.6	25-150				
Surrogate: M9PFNA	48.8		"	80.0		61.0	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
---------	--------	-----------------	-------	-------------	----------------	------	-------------	------	-----	-----------	------

Batch BJ91205 - SPE Ext-PFAS-EPA 537.1M

Matrix Spike Dup (BJ91205-MSD1)	*Source sample: 19J0700-08 (MW-48)						Prepared: 10/21/2019 Analyzed: 10/22/2019				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	84.1	2.00	ng/L	76.8	ND	109	25-150		1.56	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	82.0	5.00	"	76.0	ND	108	25-150		1.54	35	
N-EtFOSAA	83.3	2.00	"	80.0	ND	104	25-150		0.418	35	
N-MeFOSAA	87.0	2.00	"	80.0	ND	109	25-150		4.24	35	
Perfluoro-1-decanesulfonic acid (PFDS)	74.0	2.00	"	77.2	ND	95.9	25-150		5.35	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	92.1	2.00	"	79.6	ND	116	25-150		1.04	35	
Perfluoro-1-octanesulfonamide (FOSA)	86.7	2.00	"	80.0	ND	108	25-150		4.34	35	
Perfluorobutanesulfonic acid (PFBS)	101	2.00	"	70.8	18.0	117	25-150		1.83	35	
Perfluorodecanoic acid (PFDA)	85.4	2.00	"	80.0	ND	107	25-150		5.06	35	
Perfluorododecanoic acid (PFDoA)	85.9	2.00	"	80.0	ND	107	25-150		0.687	35	
Perfluoroheptanoic acid (PFHpA)	98.3	2.00	"	80.0	23.3	93.6	25-150		1.48	35	
Perfluorohexanesulfonic acid (PFHxS)	150	2.00	"	59.2	69.9	136	25-150		0.194	35	
Perfluorohexanoic acid (PFHxA)	162	2.00	"	80.0	77.5	105	25-150		1.61	35	
Perfluoro-n-butanoic acid (PFBA)	124	2.00	"	80.0	35.5	111	25-150		0.878	35	
Perfluorononanoic acid (PFNA)	100	2.00	"	76.8	15.0	111	25-150		0.971	35	
Perfluorooctanesulfonic acid (PFOS)	116	2.00	"	58.4	30.0	147	25-150		1.20	35	
Perfluorooctanoic acid (PFOA)	110	2.00	"	80.0	24.8	107	25-150		4.71	35	
Perfluoropentanoic acid (PFPeA)	195	2.00	"	80.0	107	111	25-150		1.07	35	
Perfluorotetradecanoic acid (PFTA)	85.8	2.00	"	80.0	ND	107	25-150		7.39	35	
Perfluorotridecanoic acid (PFTTrDA)	74.5	2.00	"	80.0	ND	93.1	25-150		17.8	35	
Perfluoroundecanoic acid (PFUnA)	82.2	2.00	"	80.0	ND	103	25-150		10.1	35	
Surrogate: M3PFBS	46.2		"	74.3		62.2	25-150				
Surrogate: M5PFHxA	45.5		"	80.0		56.9	25-150				
Surrogate: M4PFHpA	56.9		"	80.0		71.1	25-150				
Surrogate: M3PFHxS	47.6		"	75.7		62.9	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	49.1		"	80.0		61.4	25-150				
Surrogate: M6PFDA	49.2		"	80.0		61.5	25-150				
Surrogate: M7PFUdA	48.2		"	80.0		60.2	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	42.6		"	80.0		53.3	25-150				
Surrogate: M2PFTeDA	31.5		"	80.0		39.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	47.8		"	80.0		59.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	49.6		"	76.6		64.8	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	46.5		"	80.0		58.1	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	38.1		"	80.0		47.6	10-150				
Surrogate: d3-N-MeFOSAA	52.6		"	80.0		65.7	25-150				
Surrogate: d5-N-EtFOSAA	51.0		"	80.0		63.8	25-150				
Surrogate: M2-6:2 FTS	68.6		"	75.9		90.3	25-150				
Surrogate: M2-8:2 FTS	61.3		"	76.6		80.0	25-150				
Surrogate: M9PFNA	50.4		"	80.0		62.9	25-150				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19J0700-03	MW-42	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0700-06	MW-49	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0700-08	MW-48	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0700-09	MW-43	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0700-10	MW-44	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0700-11	Field Duplicate	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0700-12	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0700-13	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.



2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



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YORK
 ANALYTICAL LABORATORIES, INC.

Field Chain-of-Custody Record

YORK Project No.
 19J0700

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 2

YORK Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company:	WSP USA	Company:		Company:		YOUR Project Name Westchester County Airport (WCA)		RUSH - Next Day	
Address:	41 Westchester Park Dr White Plains, NY 10604	Address:		Address:		YOUR PO#: 31402218.000		RUSH - Two Day	
Phone:	914 694 5711	Phone:	SANR	Phone:	SANR			RUSH - Three Day	
Contact:	John Benvegna	Contact:		Contact:				RUSH - Four Day	
E-mail:	John.Benvegna@wsp.com	E-mail:		E-mail:				Standard (6-7 Day)	<input checked="" type="checkbox"/>

Matrix Codes	Samples From	Report / EDD Type (circle selections)	YORK Reg. Comp.
S - soil / solid <u>GW - groundwater</u> DW - drinking water WW - wastewater O - Oil / Other	New York New Jersey Connecticut Pennsylvania Other	Summary Report QA Report NY ASP A Package <u>NY ASP B Package</u>	Compared to the following Regulation(s): (please fit in)
Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
GW	10/15/19 1200	EPA 537 8260 Full	2 Pkashes
	10/15/19 1045	X	
	10/15/19 1600	X	
	10/15/19 1605	X	
	10/15/19 1300	X	
	10/15/19 1250	X	
	10/15/19 1330	X	
	10/15/19 1445	X	
	10/15/19 1445	X	
MW-1			3100s
FMW-1R			
MW-42			
MW-45			
MW-47			
MW-49			
MW-46			
MW-48			
MW-48 Matrix Spike			

Comments:

HCl MeOH ___ HNO₃ ___ H₂SO₄ ___ NaOH ___ ZnAc ___
 Ascorbic Acid ___ Other: ___

Field Filtered Lab to Filter

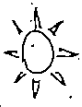
Preservation: (check all that apply)

Samples Relinquished by / Company: 10-16-19 7:10
 Signature: [Signature]

Samples Received by / Company: 10-16-19 1527
 Signature: [Signature]

Samples Relinquished by / Company: 10-16-19 1527
 Signature: [Signature]

Samples Received by / Company: 10-16-19 1527
 Signature: [Signature]



York Analytical Laboratories, Inc.
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Field Chain-of-Custody Record

YORK Project No.
 19J0700

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 2 of 2

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company:	WSP USA	Company:		Company:		YOUR Project Number		RUSH - Next Day	
Address:	4 Westchester Parkway White Plains, NY 10604	Address:		Address:		YOUR Project Name		RUSH - Two Day	
Phone:	914 694 5711	Phone:	SAVANE	Phone:	SAVANE	Westchester County Airport (WCA)		RUSH - Three Day	
Contact:	John Benvegna	Contact:	SAVANE	Contact:		YOUR PO#: 31402218.000		RUSH - Four Day	
E-mail:	john.benvegna@wsp.com	E-mail:		E-mail:				Standard (5-7 Day)	X
<p>Matrix Codes</p> <p>S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil / Other</p>									
<p>Report / EDD Type (circle selections)</p> <p>Summary Report <input checked="" type="checkbox"/> Standard Excel EDD QA Report <input type="checkbox"/> EQUIS (Standard) NY ASP A Package <input type="checkbox"/> NYSEDEC EQUIS NY ASP B Package <input type="checkbox"/> NUDEP SRP HazSite Other: <input type="checkbox"/> NJDKQP</p>									
<p>YORK Reg. Comp.</p> <p>Compared to the following Regulation(s): (please fill in)</p>									
<p>Container Description</p> <p>Analysis Requested: 1,4 Dioxane Glycols</p>									
<p>Sample Identification</p> <p>Sample Matrix: GW</p> <p>Sample Date/Time: 10/15/19 1445</p> <p>Matrix: GW</p> <p>Sample Date/Time: 10/15/19 1645</p> <p>Matrix: DW</p> <p>Sample Date/Time: 10/15/19 1650</p> <p>Matrix: DW</p>									
<p>Comments:</p> <p>MW-48 Matrix-Spike Duplicate MW-43 MW-44 Field Duplicate Field Blank TRIP Blank</p>									
<p>Preservation: (check all that apply)</p> <p>HCl <input checked="" type="checkbox"/> MeOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other: <input type="checkbox"/></p>									
<p>Special Instruction</p> <p>Field Filtered Lab to Filter</p>									
<p>Samples Relinquished by / Company</p> <p>Date/Time: 10-16-19 7:10 Samples Received by / Company: [Signature]</p>									
<p>Samples Relinquished by / Company</p> <p>Date/Time: 10-16-19 1527 Samples Received by / Company: [Signature]</p>									
<p>Samples Relinquished by / Company</p> <p>Date/Time: 10-16-19 1527 Samples Received by / Company: [Signature]</p>									



Technical Report

prepared for:

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Report Date: 10/25/2019
Client Project ID: Westchester County Airport (WCA)
York Project (SDG) No.: 19J0802

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 17, 2019 and listed below. The project was identified as your project: **Westchester County Airport (WCA)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19J0802-01	XDD MW-10	Water	10/16/2019	10/17/2019
19J0802-02	XDD MW-11	Water	10/16/2019	10/17/2019
19J0802-03	FMW-39	Water	10/16/2019	10/17/2019
19J0802-04	FMW-23	Water	10/16/2019	10/17/2019
19J0802-05	BR MW-1	Water	10/16/2019	10/17/2019
19J0802-06	FMW-6	Water	10/16/2019	10/17/2019
19J0802-07	FMW-7	Water	10/16/2019	10/17/2019
19J0802-08	FMW-14	Water	10/16/2019	10/17/2019
19J0802-09	Field Duplicate	Water	10/16/2019	10/17/2019
19J0802-10	FMW-2R	Water	10/16/2019	10/17/2019
19J0802-11	FMW-24	Water	10/16/2019	10/17/2019
19J0802-12	FMW-26	Water	10/16/2019	10/17/2019
19J0802-13	FMW-25	Water	10/16/2019	10/17/2019
19J0802-14	DPW-2	Water	10/16/2019	10/17/2019
19J0802-15	PAR-03	Water	10/16/2019	10/17/2019
19J0802-16	Field Blank	Water	10/16/2019	10/17/2019

General Notes for York Project (SDG) No.: 19J0802

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/25/2019





Sample Information

Client Sample ID: XDD MW-10

York Sample ID: 19J0802-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0802	Westchester County Airport (WCA)	Water	October 16, 2019 10:45 am	10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-34-3	1,1-Dichloroethane	6.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ



Sample Information

Client Sample ID: XDD MW-10

York Sample ID: 19J0802-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:45 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
74-83-9	Bromomethane	0.29	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
156-59-2	cis-1,2-Dichloroethylene	7.1		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ



Sample Information

Client Sample ID: XDD MW-10

York Sample ID: 19J0802-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:45 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:55	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 12:55	LLJ

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: XDD MW-10

York Sample ID: 19J0802-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:45 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	112 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	94.6 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	91.5 %			79-122						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	2.00		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/21/2019 08:23	10/23/2019 19:51	KH
	Surrogate Recoveries	Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	76.0 %			50-130					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	5.26		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	3.78		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	3.63		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT



Sample Information

Client Sample ID: XDD MW-10

York Sample ID: 19J0802-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:45 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	23.9		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	10.3		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	4.25		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
375-95-1	* Perfluorononanoic acid (PFNA)	2.86		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	21.9		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	4.62		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	12.9		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:19	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	58.5 %	25-150
Surrogate: M5PFHxA	54.9 %	25-150
Surrogate: M4PFHpA	72.9 %	25-150
Surrogate: M3PFHxS	57.0 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	56.4 %	25-150
Surrogate: M6PFDA	55.3 %	25-150
Surrogate: M7PFUdA	48.4 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	39.4 %	25-150
Surrogate: M2PFTeDA	20.1 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	56.0 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	56.5 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	58.0 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	48.6 %	10-150
Surrogate: d3-N-MeFOSAA	55.9 %	25-150
Surrogate: d5-N-EtFOSAA	55.4 %	25-150
Surrogate: M2-6:2 FTS	85.2 %	25-150



Sample Information

Client Sample ID: XDD MW-10

York Sample ID: 19J0802-01

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 10:45 am	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2-8:2 FTS	85.6 %			25-150					
	Surrogate: M9PFNA	62.0 %			25-150					

Sample Information

Client Sample ID: XDD MW-11

York Sample ID: 19J0802-02

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 10:55 am	<u>Date Received</u> 10/17/2019
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Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	2.00		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/21/2019 08:23	10/23/2019 20:08	KH
	Surrogate Recoveries	Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	68.0 %			50-130					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	7.40		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	2.35		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	9.05		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT



Sample Information

Client Sample ID: XDD MW-11

York Sample ID: 19J0802-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:55 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	12.6		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	76.2		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	28.9		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	15.4		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
375-95-1	* Perfluorononanoic acid (PFNA)	9.03		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	59.1		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	15.1		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	36.4		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 19:46	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	57.8 %	25-150
Surrogate: M5PFHxA	53.2 %	25-150
Surrogate: M4PFHpA	72.2 %	25-150
Surrogate: M3PFHxS	58.1 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	59.7 %	25-150
Surrogate: M6PFDA	57.1 %	25-150
Surrogate: M7PFUdA	51.0 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	45.0 %	25-150
Surrogate: M2PFTeDA	24.5 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	60.0 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	58.5 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	55.0 %	25-150



Sample Information

Client Sample ID: XDD MW-11

York Sample ID: 19J0802-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:55 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	51.5 %			10-150					
	Surrogate: d3-N-MeFOSAA	58.7 %			25-150					
	Surrogate: d5-N-EtFOSAA	59.0 %			25-150					
	Surrogate: M2-6:2 FTS	97.2 %			25-150					
	Surrogate: M2-8:2 FTS	94.5 %			25-150					
	Surrogate: M9PFNA	56.9 %			25-150					

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-21-1	* Ethylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 15:01	RB
57-55-6	* Propylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 15:01	RB
	Surrogate Recoveries	Result								
110-63-4	Surrogate: 1,4-Butanediol	83.5 %								
							Acceptance Range			
							30-130			

Sample Information

Client Sample ID: FMW-39

York Sample ID: 19J0802-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 11:35 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ



Sample Information

Client Sample ID: FMW-39

York Sample ID: 19J0802-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 11:35 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
78-93-3	2-Butanone	0.50	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
67-64-1	Acetone	1.1	CCV-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ



Sample Information

Client Sample ID: FMW-39

York Sample ID: 19J0802-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 11:35 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
74-83-9	Bromomethane	0.41	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:22	LLJ



Sample Information

Client Sample ID: FMW-39

York Sample ID: 19J0802-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 11:35 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Contains data for various organic compounds including n-Propylbenzene, o-Xylene, p- & m- Xylenes, etc.

Table with 4 columns: Surrogate Recoveries, Result, Acceptance Range. Lists surrogate compounds like Surr: 1,2-Dichloroethane-d4 and their recovery percentages.

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst.



Sample Information

Client Sample ID: FMW-39

York Sample ID: 19J0802-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 11:35 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	2.38		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	6.11		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	2.33		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:13	KT

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: FMW-39

York Sample ID: 19J0802-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 11:35 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFBS	57.1 %			25-150					
	Surrogate: M5PFHxA	54.2 %			25-150					
	Surrogate: M4PFHpA	72.6 %			25-150					
	Surrogate: M3PFHxS	60.4 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	57.4 %			25-150					
	Surrogate: M6PFDA	54.1 %			25-150					
	Surrogate: M7PFUdA	55.2 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	43.1 %			25-150					
	Surrogate: M2PFTeDA	20.2 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	61.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	60.1 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	52.8 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	34.6 %			10-150					
	Surrogate: d3-N-MeFOSAA	57.8 %			25-150					
	Surrogate: d5-N-EtFOSAA	58.5 %			25-150					
	Surrogate: M2-6:2 FTS	96.5 %			25-150					
	Surrogate: M2-8:2 FTS	86.6 %			25-150					
	Surrogate: M9PFNA	62.8 %			25-150					

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-21-1	* Ethylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 15:22	RB
57-55-6	* Propylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 15:22	RB
	Surrogate Recoveries	Result		Acceptance Range						
110-63-4	Surrogate: 1,4-Butanediol	88.5 %								



Sample Information

Client Sample ID: FMW-23

York Sample ID: 19J0802-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 12:20 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ



Sample Information

Client Sample ID: FMW-23

York Sample ID: 19J0802-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 12:20 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
74-83-9	Bromomethane	0.29	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
156-59-2	cis-1,2-Dichloroethylene	170		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 18:26	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ



Sample Information

Client Sample ID: FMW-23

York Sample ID: 19J0802-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 12:20 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
156-60-5	trans-1,2-Dichloroethylene	0.76		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
79-01-6	Trichloroethylene	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 13:50	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	111 %	69-130								



Sample Information

Client Sample ID: FMW-23

York Sample ID: 19J0802-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 12:20 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	98.0 %			81-117						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	95.2 %			79-122						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	11.1		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	42.2		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	109		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	440		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	245		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	101		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
375-95-1	* Perfluorononanoic acid (PFNA)	62.6		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	442		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	121		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT



Sample Information

Client Sample ID: FMW-23

York Sample ID: 19J0802-04

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 12:20 pm	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-90-3	* Perfluoropentanoic acid (PFPeA)	492		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 20:40	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		56.0 %	25-150							
Surrogate: M5PFHxA		51.9 %	25-150							
Surrogate: M4PFHpA		67.1 %	25-150							
Surrogate: M3PFHxS		53.4 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		55.4 %	25-150							
Surrogate: M6PFDA		53.3 %	25-150							
Surrogate: M7PFUdA		46.1 %	25-150							
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)		39.7 %	25-150							
Surrogate: M2PFTeDA		32.9 %	10-150							
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)		52.1 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		55.2 %	25-150							
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)		50.1 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)		44.2 %	10-150							
Surrogate: d3-N-MeFOSAA		53.7 %	25-150							
Surrogate: d5-N-EtFOSAA		52.8 %	25-150							
Surrogate: M2-6:2 FTS		72.6 %	25-150							
Surrogate: M2-8:2 FTS		69.2 %	25-150							
Surrogate: M9PFNA		57.3 %	25-150							

Sample Information

Client Sample ID: BR MW-1

York Sample ID: 19J0802-05

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 1:45 pm	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: BR MW-1

York Sample ID: 19J0802-05

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 1:45 pm	<u>Date Received</u> 10/17/2019
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Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	7.06		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	8.15		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	42.7		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	18.3		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	10.6		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
375-95-1	* Perfluorononanoic acid (PFNA)	12.7		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	37.6		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	10.9		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	27.8		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:07	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	64.5 %	25-150
Surrogate: M5PFHxA	60.0 %	25-150



Sample Information

Client Sample ID: BR MW-1

York Sample ID: 19J0802-05

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 1:45 pm	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M4PFHpA	80.0 %			25-150					
	Surrogate: M3PFHxS	63.1 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	66.6 %			25-150					
	Surrogate: M6PFDA	62.2 %			25-150					
	Surrogate: M7PFUdA	57.8 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	49.5 %			25-150					
	Surrogate: M2PFTeDA	44.8 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	61.8 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	64.5 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	60.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	53.3 %			10-150					
	Surrogate: d3-N-MeFOSAA	62.4 %			25-150					
	Surrogate: d5-N-EtFOSAA	62.1 %			25-150					
	Surrogate: M2-6:2 FTS	81.8 %			25-150					
	Surrogate: M2-8:2 FTS	85.1 %			25-150					
	Surrogate: M9PFNA	65.9 %			25-150					

Sample Information

Client Sample ID: FMW-6

York Sample ID: 19J0802-06

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 2:15 pm	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1160		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	934		ng/L	500	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT



Sample Information

Client Sample ID: FMW-6

York Sample ID: 19J0802-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 2:15 pm

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	* N-MeFOSAA	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	277		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	892		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	3890		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	1240		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	714		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
375-95-1	* Perfluorononanoic acid (PFNA)	712		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	12900		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	1140		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	2040		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	1230		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	10100		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 21:34	KT
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M3PFBS	61.3 %		25-150						
	Surrogate: M5PFHxA	55.5 %		25-150						
	Surrogate: M4PFHpA	70.9 %		25-150						
	Surrogate: M3PFHxS	59.1 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	58.4 %		25-150						
	Surrogate: M6PFDA	64.7 %		25-150						



Sample Information

Client Sample ID: FMW-6

York Sample ID: 19J0802-06

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 2:15 pm	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	48.8 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	49.5 %			25-150					
	Surrogate: M2PFTeDA	39.3 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	57.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	58.8 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	57.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	52.4 %			10-150					
	Surrogate: d3-N-MeFOSAA	60.0 %			25-150					
	Surrogate: d5-N-EtFOSAA	57.4 %			25-150					
	Surrogate: M2-6:2 FTS	74.8 %			25-150					
	Surrogate: M2-8:2 FTS	77.3 %			25-150					
	Surrogate: M9PFNA	61.8 %			25-150					

Sample Information

Client Sample ID: FMW-7

York Sample ID: 19J0802-07

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 2:30 pm	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1100		ng/L	500	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	251		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT



Sample Information

Client Sample ID: FMW-7

York Sample ID: 19J0802-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 2:30 pm

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	364		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	767		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	8090		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	1300		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	690		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
375-95-1	* Perfluorononanoic acid (PFNA)	761		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	17200		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	887		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	2330		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	905		ng/L	200	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:01	KT
	Surrogate Recoveries	Result					Acceptance Range			
	Surrogate: M3PFBS	59.2 %					25-150			
	Surrogate: M5PFHxA	54.2 %					25-150			
	Surrogate: M4PFHpA	68.0 %					25-150			
	Surrogate: M3PFHxS	56.0 %					25-150			
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	60.7 %					25-150			
	Surrogate: M6PFDA	58.1 %					25-150			
	Surrogate: M7PFUdA	55.1 %					25-150			
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	43.9 %					25-150			
	Surrogate: M2PFTeDA	35.4 %					10-150			



Sample Information

Client Sample ID: FMW-7

York Sample ID: 19J0802-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 2:30 pm

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	55.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	56.9 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	54.9 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	46.7 %			10-150					
	Surrogate: d3-N-MeFOSAA	55.8 %			25-150					
	Surrogate: d5-N-EtFOSAA	56.3 %			25-150					
	Surrogate: M2-6:2 FTS	74.8 %			25-150					
	Surrogate: M2-8:2 FTS	78.7 %			25-150					
	Surrogate: M9PFNA	59.6 %			25-150					

Sample Information

Client Sample ID: FMW-14

York Sample ID: 19J0802-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 2:50 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ



Sample Information

Client Sample ID: FMW-14

York Sample ID: 19J0802-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 2:50 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
78-93-3	2-Butanone	0.55	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
67-64-1	Acetone	2.6	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-15-0	Carbon disulfide	0.35	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ



Sample Information

Client Sample ID: FMW-14

York Sample ID: 19J0802-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 2:50 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
108-90-7	Chlorobenzene	5.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.21	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ



Sample Information

Client Sample ID: FMW-14

York Sample ID: 19J0802-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 2:50 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:17	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 14:17	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	112 %			69-130
2037-26-5	Surrogate: SURRE: Toluene-d8	97.5 %			81-117
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	92.2 %			79-122

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT



Sample Information

Client Sample ID: FMW-14

York Sample ID: 19J0802-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 2:50 pm

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	6.91		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	10.5		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	89.0		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	25.0		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	13.9		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
375-95-1	* Perfluorononanoic acid (PFNA)	20.9		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	101		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	51.9		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	28.5		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	2.56		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 22:28	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		56.5 %	25-150							
Surrogate: M5PFHxA		53.8 %	25-150							
Surrogate: M4PFHpA		74.0 %	25-150							
Surrogate: M3PFHxS		58.4 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		60.9 %	25-150							
Surrogate: M6PFDA		64.3 %	25-150							



Sample Information

Client Sample ID: FMW-14

York Sample ID: 19J0802-08

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 2:50 pm	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	58.2 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	51.4 %			25-150					
	Surrogate: M2PFTeDA	33.9 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	62.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	56.9 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	52.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	42.8 %			10-150					
	Surrogate: d3-N-MeFOSAA	63.5 %			25-150					
	Surrogate: d5-N-EtFOSAA	61.5 %			25-150					
	Surrogate: M2-6:2 FTS	113 %			25-150					
	Surrogate: M2-8:2 FTS	106 %			25-150					
	Surrogate: M9PFNA	60.9 %			25-150					

Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0802-09

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 12:00 am	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0802-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 12:00 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	7.12		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	8.48		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	43.7		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	18.5		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	10.9		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
375-95-1	* Perfluorononanoic acid (PFNA)	13.0		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	37.6		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	11.1		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	28.1		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:22	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	52.3 %	25-150
Surrogate: M5PFHxA	48.3 %	25-150
Surrogate: M4PFHpA	64.4 %	25-150
Surrogate: M3PFHxS	51.0 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	50.6 %	25-150
Surrogate: M6PFDA	56.9 %	25-150
Surrogate: M7PFUDA	45.7 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	40.8 %	25-150
Surrogate: M2PFTeDA	32.1 %	10-150



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0802-09

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 12:00 am	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	48.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	52.6 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	48.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	21.6 %			10-150					
	Surrogate: d3-N-MeFOSAA	50.8 %			25-150					
	Surrogate: d5-N-EtFOSAA	48.7 %			25-150					
	Surrogate: M2-6:2 FTS	69.9 %			25-150					
	Surrogate: M2-8:2 FTS	76.9 %			25-150					
	Surrogate: M9PFNA	52.7 %			25-150					

Sample Information

Client Sample ID: FMW-2R

York Sample ID: 19J0802-10

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 10:10 am	<u>Date Received</u> 10/17/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ



Sample Information

Client Sample ID: FMW-2R

York Sample ID: 19J0802-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:10 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
78-93-3	2-Butanone	0.46	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ



Sample Information

Client Sample ID: FMW-2R

York Sample ID: 19J0802-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:10 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ



Sample Information

Client Sample ID: FMW-2R

York Sample ID: 19J0802-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:10 am

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 14:44	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 14:44	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	117 %	69-130
2037-26-5	Surrogate: SURR: Toluene-d8	96.9 %	81-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	95.8 %	79-122

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT



Sample Information

Client Sample ID: FMW-2R

York Sample ID: 19J0802-10

York Project (SDG) No.

Client Project ID

Matrix

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19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:10 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	2.12		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	2.32		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	2.28		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	2.26		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	4.22		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	6.90		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	7.90		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	2.63		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/24/2019 23:48	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	59.1 %	25-150
Surrogate: M5PFHxA	57.9 %	25-150
Surrogate: M4PFHpA	71.3 %	25-150
Surrogate: M3PFHxS	60.0 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	59.7 %	25-150
Surrogate: M6PFDA	60.1 %	25-150



Sample Information

Client Sample ID: FMW-2R

York Sample ID: 19J0802-10

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 10:10 am	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	46.3 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	41.3 %			25-150					
	Surrogate: M2PFTeDA	16.8 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	59.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	58.8 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	57.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	29.6 %			10-150					
	Surrogate: d3-N-MeFOSAA	55.6 %			25-150					
	Surrogate: d5-N-EtFOSAA	54.3 %			25-150					
	Surrogate: M2-6:2 FTS	78.9 %			25-150					
	Surrogate: M2-8:2 FTS	80.8 %			25-150					
	Surrogate: M9PFNA	61.9 %			25-150					

Sample Information

Client Sample ID: FMW-24

York Sample ID: 19J0802-11

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 10:45 am	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT



Sample Information

Client Sample ID: FMW-24

York Sample ID: 19J0802-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:45 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	3.02		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	3.60		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	11.8		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	5.80		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	6.22		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
375-95-1	* Perfluorononanoic acid (PFNA)	3.23		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	24.3		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	12.2		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	5.01		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:15	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	58.9 %	25-150
Surrogate: M5PFHxA	54.5 %	25-150
Surrogate: M4PFHpA	71.0 %	25-150
Surrogate: M3PFHxS	58.3 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	57.4 %	25-150
Surrogate: M6PFDA	60.6 %	25-150
Surrogate: M7PFUDA	50.7 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	47.1 %	25-150
Surrogate: M2PFTeDA	38.3 %	10-150



Sample Information

Client Sample ID: FMW-24

York Sample ID: 19J0802-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 10:45 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	56.1 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	59.8 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	54.8 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	46.1 %			10-150					
	Surrogate: d3-N-MeFOSAA	56.1 %			25-150					
	Surrogate: d5-N-EtFOSAA	55.5 %			25-150					
	Surrogate: M2-6:2 FTS	78.3 %			25-150					
	Surrogate: M2-8:2 FTS	81.3 %			25-150					
	Surrogate: M9PFNA	61.8 %			25-150					

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-21-1	* Ethylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 16:28	RB
57-55-6	* Propylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 16:28	RB
	Surrogate Recoveries	Result					Acceptance Range			
110-63-4	Surrogate: 1,4-Butanediol	83.1 %					30-130			

Sample Information

Client Sample ID: FMW-26

York Sample ID: 19J0802-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 11:25 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT



Sample Information

Client Sample ID: FMW-26

York Sample ID: 19J0802-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 11:25 am

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	2.20		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	5.89		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	4.96		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	10.4		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	10.4		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
375-95-1	* Perfluorononanoic acid (PFNA)	2.07		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	22.3		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	20.2		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	15.1		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 00:42	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS

55.1 %

25-150

Surrogate: M5PFHxA

49.4 %

25-150

Surrogate: M4PFHpA

63.9 %

25-150



Sample Information

Client Sample ID: FMW-26

York Sample ID: 19J0802-12

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 11:25 am	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	55.9 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	55.6 %			25-150					
	Surrogate: M6PFDA	53.5 %			25-150					
	Surrogate: M7PFUdA	48.7 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	43.1 %			25-150					
	Surrogate: M2PFTeDA	40.6 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	51.9 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	54.9 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	50.7 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	46.3 %			10-150					
	Surrogate: d3-N-MeFOSAA	54.4 %			25-150					
	Surrogate: d5-N-EtFOSAA	52.5 %			25-150					
	Surrogate: M2-6:2 FTS	77.7 %			25-150					
	Surrogate: M2-8:2 FTS	68.0 %			25-150					
	Surrogate: M9PFNA	57.6 %			25-150					

Sample Information

Client Sample ID: FMW-25

York Sample ID: 19J0802-13

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 12:40 pm	<u>Date Received</u> 10/17/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT



Sample Information

Client Sample ID: FMW-25

York Sample ID: 19J0802-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 12:40 pm

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	6.42		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	2.05		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	2.31		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	4.87		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	13.6		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:09	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	48.5 %	25-150
Surrogate: M5PFHxA	46.0 %	25-150
Surrogate: M4PFHpA	62.7 %	25-150
Surrogate: M3PFHxS	52.4 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFDA)	57.9 %	25-150
Surrogate: M6PFDA	62.2 %	25-150
Surrogate: M7PFUdA	46.0 %	25-150



Sample Information

Client Sample ID: FMW-25

York Sample ID: 19J0802-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 12:40 pm

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	48.3 %			25-150					
	Surrogate: M2PFTeDA	39.2 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	55.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	54.3 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	43.7 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	39.1 %			10-150					
	Surrogate: d3-N-MeFOSAA	56.2 %			25-150					
	Surrogate: d5-N-EtFOSAA	56.3 %			25-150					
	Surrogate: M2-6:2 FTS	118 %			25-150					
	Surrogate: M2-8:2 FTS	101 %			25-150					
	Surrogate: M9PFNA	59.1 %			25-150					

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-21-1	* Ethylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 17:11	RB
57-55-6	* Propylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 17:11	RB
	Surrogate Recoveries	Result								
110-63-4	Surrogate: 1,4-Butanediol	70.5 %					Acceptance Range 30-130			

Sample Information

Client Sample ID: DPW-2

York Sample ID: 19J0802-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 1:30 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: DPW-2

York Sample ID: 19J0802-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 1:30 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
78-93-3	2-Butanone	0.52	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ



Sample Information

Client Sample ID: DPW-2

York Sample ID: 19J0802-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 1:30 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ



Sample Information

Client Sample ID: DPW-2

York Sample ID: 19J0802-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 1:30 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 15:11	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 15:11	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0 *Surrogate: SURR: 1,2-Dichloroethane-d4*

117 %

69-130



Sample Information

Client Sample ID: DPW-2

York Sample ID: 19J0802-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 1:30 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: SURR: Toluene-d8	98.2 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	97.3 %			79-122						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	7.87		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	5.08		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	27.8		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	49.0		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	54.0		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	30.8		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
375-95-1	* Perfluorononanoic acid (PFNA)	59.6		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	30.7		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	28.2		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT



Sample Information

Client Sample ID: DPW-2

York Sample ID: 19J0802-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 1:30 pm

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-90-3	* Perfluoropentanoic acid (PFPeA)	94.1		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 01:36	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		56.9 %	25-150							
Surrogate: M5PFHxA		54.3 %	25-150							
Surrogate: M4PFHpA		73.4 %	25-150							
Surrogate: M3PFHxS		59.2 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		57.4 %	25-150							
Surrogate: M6PFDA		64.1 %	25-150							
Surrogate: M7PFUdA		58.6 %	25-150							
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)		53.0 %	25-150							
Surrogate: M2PFTeDA		41.3 %	10-150							
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)		61.3 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		59.8 %	25-150							
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)		52.2 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)		45.0 %	10-150							
Surrogate: d3-N-MeFOSAA		66.6 %	25-150							
Surrogate: d5-N-EtFOSAA		66.0 %	25-150							
Surrogate: M2-6:2 FTS		126 %	25-150							
Surrogate: M2-8:2 FTS		114 %	25-150							
Surrogate: M9PFNA		66.9 %	25-150							

Sample Information

Client Sample ID: PAR-03

York Sample ID: 19J0802-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 1:45 pm

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: PAR-03

York Sample ID: 19J0802-15

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 1:45 pm	<u>Date Received</u> 10/17/2019
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Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	15.4		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	18.0		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	103		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	48.0		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	20.6		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
375-95-1	* Perfluorononanoic acid (PFNA)	5.72		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	42.1		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	28.2		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	62.5		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:03	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	59.2 %	25-150
Surrogate: M5PFHxA	55.8 %	25-150



Sample Information

Client Sample ID: PAR-03					York Sample ID: 19J0802-15
<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 1:45 pm	<u>Date Received</u> 10/17/2019	

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M4PFHpA	74.5 %			25-150					
	Surrogate: M3PFHxS	57.2 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	58.7 %			25-150					
	Surrogate: M6PFDA	61.9 %			25-150					
	Surrogate: M7PFUdA	52.2 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	48.1 %			25-150					
	Surrogate: M2PFTeDA	37.8 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	58.3 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	56.7 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	56.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	44.2 %			10-150					
	Surrogate: d3-N-MeFOSAA	55.6 %			25-150					
	Surrogate: d5-N-EtFOSAA	56.4 %			25-150					
	Surrogate: M2-6:2 FTS	77.6 %			25-150					
	Surrogate: M2-8:2 FTS	80.4 %			25-150					
	Surrogate: M9PFNA	61.4 %			25-150					

Sample Information

Client Sample ID: Field Blank					York Sample ID: 19J0802-16
<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 3:15 pm	<u>Date Received</u> 10/17/2019	

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0802-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 3:15 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
78-93-3	2-Butanone	0.62	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0802-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 3:15 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
74-83-9	Bromomethane	0.24	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0802-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 3:15 pm

10/17/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	1.2	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/21/2019 06:10	10/21/2019 12:01	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/21/2019 06:10	10/21/2019 12:01	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	110 %	69-130
2037-26-5	Surrogate: SURR: Toluene-d8	95.8 %	81-117
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.2 %	79-122

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0802-16

<u>York Project (SDG) No.</u> 19J0802	<u>Client Project ID</u> Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 16, 2019 3:15 pm	<u>Date Received</u> 10/17/2019
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Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/21/2019 08:23	10/23/2019 20:24	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	68.0 %	50-130							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0802-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0802

Westchester County Airport (WCA)

Water

October 16, 2019 3:15 pm

10/17/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/23/2019 11:44	10/25/2019 02:30	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		62.1 %	25-150							
Surrogate: M5PFHxA		59.4 %	25-150							
Surrogate: M4PFHpA		77.0 %	25-150							
Surrogate: M3PFHxS		59.0 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		63.1 %	25-150							
Surrogate: M6PFDA		60.5 %	25-150							
Surrogate: M7PFUDA		49.1 %	25-150							
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)		49.0 %	25-150							
Surrogate: M2PFTeDA		37.7 %	10-150							
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)		58.5 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		57.3 %	25-150							
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)		61.5 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)		53.3 %	10-150							
Surrogate: d3-N-MeFOSAA		59.1 %	25-150							
Surrogate: d5-N-EtFOSAA		61.3 %	25-150							
Surrogate: M2-6:2 FTS		63.0 %	25-150							
Surrogate: M2-8:2 FTS		57.2 %	25-150							
Surrogate: M9PFNA		72.6 %	25-150							

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-21-1	* Ethylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 18:15	RB
57-55-6	* Propylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 18:15	RB
Surrogate Recoveries		Result	Acceptance Range							



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0802-16

York Project (SDG) No. 19J0802

Client Project ID Westchester County Airport (WCA)

Matrix Water

Collection Date/Time October 16, 2019 3:15 pm

Date Received 10/17/2019

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-63-4	Surrogate: 1,4-Butanediol	92.1 %			30-130					



Analytical Batch Summary

Batch ID: BJ91075 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19J0802-01	XDD MW-10	10/21/19
19J0802-03	FMW-39	10/21/19
19J0802-04	FMW-23	10/21/19
19J0802-08	FMW-14	10/21/19
19J0802-10	FMW-2R	10/21/19
19J0802-14	DPW-2	10/21/19
19J0802-16	Field Blank	10/21/19
BJ91075-BLK1	Blank	10/21/19
BJ91075-BS1	LCS	10/21/19
BJ91075-BSD1	LCS Dup	10/21/19

Batch ID: BJ91076 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19J0802-04RE1	FMW-23	10/22/19
BJ91076-BLK1	Blank	10/22/19
BJ91076-BS1	LCS	10/22/19
BJ91076-BSD1	LCS Dup	10/22/19

Batch ID: BJ91182 **Preparation Method:** EPA 3535A **Prepared By:** CTD

YORK Sample ID	Client Sample ID	Preparation Date
19J0802-01	XDD MW-10	10/21/19
19J0802-02	XDD MW-11	10/21/19
19J0802-16	Field Blank	10/21/19
BJ91182-BLK1	Blank	10/21/19
BJ91182-BS1	LCS	10/21/19

Batch ID: BJ91319 **Preparation Method:** Preparation for GC Analysis **Prepared By:** CM

YORK Sample ID	Client Sample ID	Preparation Date
19J0802-02	XDD MW-11	10/22/19
19J0802-03	FMW-39	10/22/19
19J0802-11	FMW-24	10/22/19
19J0802-13	FMW-25	10/22/19
19J0802-16	Field Blank	10/22/19
BJ91319-BLK1	Blank	10/22/19
BJ91319-BS1	LCS	10/22/19
BJ91319-MS1	Matrix Spike	10/22/19
BJ91319-MSD1	Matrix Spike Dup	10/22/19

Batch ID: BJ91403 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** WL



YORK Sample ID	Client Sample ID	Preparation Date
19J0802-01	XDD MW-10	10/23/19
19J0802-02	XDD MW-11	10/23/19
19J0802-03	FMW-39	10/23/19
19J0802-04	FMW-23	10/23/19
19J0802-05	BR MW-1	10/23/19
19J0802-06	FMW-6	10/23/19
19J0802-07	FMW-7	10/23/19
19J0802-08	FMW-14	10/23/19
19J0802-09	Field Duplicate	10/23/19
19J0802-10	FMW-2R	10/23/19
19J0802-11	FMW-24	10/23/19
19J0802-12	FMW-26	10/23/19
19J0802-13	FMW-25	10/23/19
19J0802-14	DPW-2	10/23/19
19J0802-15	PAR-03	10/23/19
19J0802-16	Field Blank	10/23/19
BJ91403-BLK1	Blank	10/23/19
BJ91403-BS1	LCS	10/23/19



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91075 - EPA 5030B

Blank (BJ91075-BLK1)

Prepared & Analyzed: 10/21/2019

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	1.2	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

Batch BJ91075 - EPA 5030B

Blank (BJ91075-BLK1)

Prepared & Analyzed: 10/21/2019

Methylene chloride	ND	2.0	ug/L										
n-Butylbenzene	ND	0.50	"										
n-Propylbenzene	ND	0.50	"										
o-Xylene	ND	0.50	"										
p- & m- Xylenes	ND	1.0	"										
p-Isopropyltoluene	ND	0.50	"										
sec-Butylbenzene	ND	0.50	"										
Styrene	ND	0.50	"										
tert-Butyl alcohol (TBA)	ND	1.0	"										
tert-Butylbenzene	ND	0.50	"										
Tetrachloroethylene	ND	0.50	"										
Toluene	ND	0.50	"										
trans-1,2-Dichloroethylene	ND	0.50	"										
trans-1,3-Dichloropropylene	ND	0.50	"										
trans-1,4-dichloro-2-butene	ND	0.50	"										
Trichloroethylene	ND	0.50	"										
Trichlorofluoromethane	ND	0.50	"										
Vinyl Chloride	ND	0.50	"										
Xylenes, Total	ND	1.5	"										
<hr/>													
<i>Surrogate: Surr: 1,2-Dichloroethane-d4</i>	<i>10.5</i>		<i>"</i>	<i>10.0</i>		<i>105</i>		<i>69-130</i>					
<i>Surrogate: Surr: Toluene-d8</i>	<i>9.81</i>		<i>"</i>	<i>10.0</i>		<i>98.1</i>		<i>81-117</i>					
<i>Surrogate: Surr: p-Bromofluorobenzene</i>	<i>9.99</i>		<i>"</i>	<i>10.0</i>		<i>99.9</i>		<i>79-122</i>					

LCS (BJ91075-BS1)

Prepared & Analyzed: 10/21/2019

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		111		82-126					
1,1,1-Trichloroethane	11		"	10.0		108		78-136					
1,1,2,2-Tetrachloroethane	12		"	10.0		117		76-129					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		119		54-165					
1,1,2-Trichloroethane	11		"	10.0		111		82-123					
1,1-Dichloroethane	11		"	10.0		115		82-129					
1,1-Dichloroethylene	11		"	10.0		106		68-138					
1,2,3-Trichlorobenzene	10		"	10.0		103		76-136					
1,2,3-Trichloropropane	12		"	10.0		116		77-128					
1,2,4-Trichlorobenzene	9.7		"	10.0		96.9		76-137					
1,2,4-Trimethylbenzene	11		"	10.0		109		82-132					
1,2-Dibromo-3-chloropropane	9.4		"	10.0		94.2		45-147					
1,2-Dibromoethane	11		"	10.0		112		83-124					
1,2-Dichlorobenzene	11		"	10.0		111		79-123					
1,2-Dichloroethane	11		"	10.0		112		73-132					
1,2-Dichloropropane	11		"	10.0		106		78-126					
1,3,5-Trimethylbenzene	11		"	10.0		108		80-131					
1,3-Dichlorobenzene	11		"	10.0		107		86-122					
1,4-Dichlorobenzene	11		"	10.0		108		85-124					
1,4-Dioxane	340		"	210		164		10-349					
2-Butanone	11		"	10.0		110		49-152					
2-Hexanone	12		"	10.0		119		51-146					
4-Methyl-2-pentanone	12		"	10.0		116		57-145					
Acetone	11		"	10.0		106		14-150					
Acrolein	4.8		"	10.0		47.5		10-153					
Acrylonitrile	11		"	10.0		111		51-150					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

Batch BJ91075 - EPA 5030B

LCS (BJ91075-BS1)

Prepared & Analyzed: 10/21/2019

Benzene	11		ug/L	10.0		112	85-126			
Bromochloromethane	12		"	10.0		118	77-128			
Bromodichloromethane	11		"	10.0		109	79-128			
Bromoform	11		"	10.0		112	78-133			
Bromomethane	9.6		"	10.0		96.0	43-168			
Carbon disulfide	9.1		"	10.0		90.6	68-146			
Carbon tetrachloride	11		"	10.0		112	77-141			
Chlorobenzene	11		"	10.0		109	88-120			
Chloroethane	12		"	10.0		116	65-136			
Chloroform	11		"	10.0		109	82-128			
Chloromethane	9.7		"	10.0		97.3	43-155			
cis-1,2-Dichloroethylene	11		"	10.0		113	83-129			
cis-1,3-Dichloropropylene	11		"	10.0		106	80-131			
Cyclohexane	5.1		"	10.0		51.0	63-149	Low Bias		
Dibromochloromethane	11		"	10.0		112	80-130			
Dibromomethane	11		"	10.0		110	72-134			
Dichlorodifluoromethane	11		"	10.0		108	44-144			
Ethyl Benzene	11		"	10.0		113	80-131			
Hexachlorobutadiene	8.9		"	10.0		88.8	67-146			
Isopropylbenzene	11		"	10.0		107	76-140			
Methyl acetate	12		"	10.0		120	51-139			
Methyl tert-butyl ether (MTBE)	12		"	10.0		117	76-135			
Methylcyclohexane	11		"	10.0		108	72-143			
Methylene chloride	12		"	10.0		120	55-137			
n-Butylbenzene	12		"	10.0		121	79-132			
n-Propylbenzene	11		"	10.0		111	78-133			
o-Xylene	11		"	10.0		110	78-130			
p- & m- Xylenes	23		"	20.0		115	77-133			
p-Isopropyltoluene	11		"	10.0		110	81-136			
sec-Butylbenzene	12		"	10.0		115	79-137			
Styrene	11		"	10.0		112	67-132			
tert-Butyl alcohol (TBA)	53		"	50.0		106	25-162			
tert-Butylbenzene	9.6		"	10.0		95.5	77-138			
Tetrachloroethylene	9.6		"	10.0		95.7	82-131			
Toluene	11		"	10.0		107	80-127			
trans-1,2-Dichloroethylene	11		"	10.0		110	80-132			
trans-1,3-Dichloropropylene	11		"	10.0		108	78-131			
trans-1,4-dichloro-2-butene	11		"	10.0		108	63-141			
Trichloroethylene	10		"	10.0		104	82-128			
Trichlorofluoromethane	12		"	10.0		124	67-139			
Vinyl Chloride	11		"	10.0		109	58-145			
Surrogate: SURR: 1,2-Dichloroethane-d4	10.4		"	10.0		104	69-130			
Surrogate: SURR: Toluene-d8	9.81		"	10.0		98.1	81-117			
Surrogate: SURR: p-Bromofluorobenzene	9.57		"	10.0		95.7	79-122			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91075 - EPA 5030B											
LCS Dup (BJ91075-BSD1)											
Prepared & Analyzed: 10/21/2019											
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		106	82-126		4.33	30	
1,1,1-Trichloroethane	10		"	10.0		102	78-136		5.52	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		115	76-129		2.33	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		112	54-165		6.13	30	
1,1,2-Trichloroethane	11		"	10.0		108	82-123		2.93	30	
1,1-Dichloroethane	11		"	10.0		108	82-129		6.29	30	
1,1-Dichloroethylene	10		"	10.0		100	68-138		5.80	30	
1,2,3-Trichlorobenzene	11		"	10.0		106	76-136		3.35	30	
1,2,3-Trichloropropane	11		"	10.0		114	77-128		1.74	30	
1,2,4-Trichlorobenzene	9.9		"	10.0		98.6	76-137		1.74	30	
1,2,4-Trimethylbenzene	10		"	10.0		102	82-132		5.87	30	
1,2-Dibromo-3-chloropropane	12		"	10.0		116	45-147		20.8	30	
1,2-Dibromoethane	11		"	10.0		111	83-124		1.17	30	
1,2-Dichlorobenzene	10		"	10.0		105	79-123		5.57	30	
1,2-Dichloroethane	11		"	10.0		112	73-132		0.357	30	
1,2-Dichloropropane	10		"	10.0		101	78-126		4.72	30	
1,3,5-Trimethylbenzene	10		"	10.0		101	80-131		6.49	30	
1,3-Dichlorobenzene	10		"	10.0		102	86-122		4.49	30	
1,4-Dichlorobenzene	10		"	10.0		102	85-124		5.89	30	
1,4-Dioxane	310		"	210		147	10-349		10.9	30	
2-Butanone	14		"	10.0		142	49-152		25.7	30	
2-Hexanone	12		"	10.0		121	51-146		1.58	30	
4-Methyl-2-pentanone	12		"	10.0		121	57-145		3.63	30	
Acetone	11		"	10.0		108	14-150		1.96	30	
Acrolein	4.7		"	10.0		46.6	10-153		1.91	30	
Acrylonitrile	5.6		"	10.0		56.5	51-150		65.1	30	Non-dir.
Benzene	11		"	10.0		108	85-126		4.46	30	
Bromochloromethane	11		"	10.0		115	77-128		2.58	30	
Bromodichloromethane	11		"	10.0		105	79-128		3.83	30	
Bromoform	11		"	10.0		113	78-133		0.355	30	
Bromomethane	9.8		"	10.0		98.4	43-168		2.47	30	
Carbon disulfide	8.5		"	10.0		85.3	68-146		6.03	30	
Carbon tetrachloride	10		"	10.0		104	77-141		6.66	30	
Chlorobenzene	10		"	10.0		104	88-120		4.22	30	
Chloroethane	11		"	10.0		109	65-136		6.66	30	
Chloroform	11		"	10.0		105	82-128		3.73	30	
Chloromethane	9.2		"	10.0		91.8	43-155		5.82	30	
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129		6.48	30	
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131		3.76	30	
Cyclohexane	4.7		"	10.0		47.3	63-149	Low Bias	7.53	30	
Dibromochloromethane	11		"	10.0		109	80-130		2.99	30	
Dibromomethane	11		"	10.0		108	72-134		2.38	30	
Dichlorodifluoromethane	10		"	10.0		102	44-144		6.00	30	
Ethyl Benzene	11		"	10.0		107	80-131		5.36	30	
Hexachlorobutadiene	9.2		"	10.0		92.4	67-146		3.97	30	
Isopropylbenzene	9.8		"	10.0		98.5	76-140		8.27	30	
Methyl acetate	13		"	10.0		128	51-139		6.06	30	
Methyl tert-butyl ether (MTBE)	12		"	10.0		118	76-135		0.426	30	
Methylcyclohexane	10		"	10.0		100	72-143		7.85	30	
Methylene chloride	12		"	10.0		116	55-137		3.98	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91075 - EPA 5030B

LCS Dup (BJ91075-BSD1)

Prepared & Analyzed: 10/21/2019

n-Butylbenzene	11		ug/L	10.0		115	79-132		5.52	30	
n-Propylbenzene	10		"	10.0		102	78-133		8.34	30	
o-Xylene	10		"	10.0		105	78-130		4.94	30	
p- & m- Xylenes	22		"	20.0		108	77-133		6.55	30	
p-Isopropyltoluene	11		"	10.0		106	81-136		4.63	30	
sec-Butylbenzene	11		"	10.0		107	79-137		7.11	30	
Styrene	11		"	10.0		109	67-132		3.53	30	
tert-Butyl alcohol (TBA)	58		"	50.0		116	25-162		9.23	30	
tert-Butylbenzene	8.8		"	10.0		88.4	77-138		7.72	30	
Tetrachloroethylene	8.9		"	10.0		89.0	82-131		7.26	30	
Toluene	10		"	10.0		101	80-127		5.85	30	
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132		5.82	30	
trans-1,3-Dichloropropylene	11		"	10.0		105	78-131		2.63	30	
trans-1,4-dichloro-2-butene	9.4		"	10.0		94.3	63-141		13.5	30	
Trichloroethylene	9.8		"	10.0		97.7	82-128		5.96	30	
Trichlorofluoromethane	11		"	10.0		114	67-139		8.98	30	
Vinyl Chloride	10		"	10.0		103	58-145		5.75	30	
<i>Surrogate: Surr: 1,2-Dichloroethane-d4</i>	<i>10.6</i>		<i>"</i>	<i>10.0</i>		<i>106</i>	<i>69-130</i>				
<i>Surrogate: Surr: Toluene-d8</i>	<i>9.59</i>		<i>"</i>	<i>10.0</i>		<i>95.9</i>	<i>81-117</i>				
<i>Surrogate: Surr: p-Bromofluorobenzene</i>	<i>9.63</i>		<i>"</i>	<i>10.0</i>		<i>96.3</i>	<i>79-122</i>				

Batch BJ91076 - EPA 5030B

Blank (BJ91076-BLK1)

Prepared & Analyzed: 10/22/2019

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	1.3	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit			Result	Limits	RPD					

Batch BJ91076 - EPA 5030B

Blank (BJ91076-BLK1)

Prepared & Analyzed: 10/22/2019

Bromochloromethane	ND	0.50	ug/L									
Bromodichloromethane	ND	0.50	"									
Bromoform	ND	0.50	"									
Bromomethane	0.27	0.50	"									
Carbon disulfide	ND	0.50	"									
Carbon tetrachloride	ND	0.50	"									
Chlorobenzene	ND	0.50	"									
Chloroethane	ND	0.50	"									
Chloroform	ND	0.50	"									
Chloromethane	ND	0.50	"									
cis-1,2-Dichloroethylene	ND	0.50	"									
cis-1,3-Dichloropropylene	ND	0.50	"									
Cyclohexane	ND	0.50	"									
Dibromochloromethane	ND	0.50	"									
Dibromomethane	ND	0.50	"									
Dichlorodifluoromethane	ND	0.50	"									
Ethyl Benzene	ND	0.50	"									
Hexachlorobutadiene	ND	0.50	"									
Isopropylbenzene	ND	0.50	"									
Methyl acetate	ND	0.50	"									
Methyl tert-butyl ether (MTBE)	ND	0.50	"									
Methylcyclohexane	ND	0.50	"									
Methylene chloride	ND	2.0	"									
n-Butylbenzene	ND	0.50	"									
n-Propylbenzene	ND	0.50	"									
o-Xylene	ND	0.50	"									
p- & m- Xylenes	ND	1.0	"									
p-Isopropyltoluene	ND	0.50	"									
sec-Butylbenzene	ND	0.50	"									
Styrene	ND	0.50	"									
tert-Butyl alcohol (TBA)	ND	1.0	"									
tert-Butylbenzene	ND	0.50	"									
Tetrachloroethylene	ND	0.50	"									
Toluene	ND	0.50	"									
trans-1,2-Dichloroethylene	ND	0.50	"									
trans-1,3-Dichloropropylene	ND	0.50	"									
trans-1,4-dichloro-2-butene	ND	0.50	"									
Trichloroethylene	ND	0.50	"									
Trichlorofluoromethane	ND	0.50	"									
Vinyl Chloride	ND	0.50	"									
Xylenes, Total	ND	1.5	"									
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Surrogate: SURRE: 1,2-Dichloroethane-d4	11.6		"	10.0		116	69-130					
Surrogate: SURRE: Toluene-d8	9.51		"	10.0		95.1	81-117					
Surrogate: SURRE: p-Bromofluorobenzene	8.20		"	10.0		82.0	79-122					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
Batch BJ91076 - EPA 5030B										
LCS (BJ91076-BS1)										
Prepared & Analyzed: 10/22/2019										
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		106	82-126			
1,1,1-Trichloroethane	11		"	10.0		106	78-136			
1,1,2,2-Tetrachloroethane	12		"	10.0		115	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		116	54-165			
1,1,2-Trichloroethane	10		"	10.0		103	82-123			
1,1-Dichloroethane	11		"	10.0		111	82-129			
1,1-Dichloroethylene	10		"	10.0		102	68-138			
1,2,3-Trichlorobenzene	7.7		"	10.0		76.6	76-136			
1,2,3-Trichloropropane	11		"	10.0		114	77-128			
1,2,4-Trichlorobenzene	8.0		"	10.0		80.0	76-137			
1,2,4-Trimethylbenzene	11		"	10.0		110	82-132			
1,2-Dibromo-3-chloropropane	11		"	10.0		107	45-147			
1,2-Dibromoethane	11		"	10.0		106	83-124			
1,2-Dichlorobenzene	11		"	10.0		109	79-123			
1,2-Dichloroethane	11		"	10.0		111	73-132			
1,2-Dichloropropane	10		"	10.0		103	78-126			
1,3,5-Trimethylbenzene	11		"	10.0		110	80-131			
1,3-Dichlorobenzene	11		"	10.0		106	86-122			
1,4-Dichlorobenzene	11		"	10.0		108	85-124			
1,4-Dioxane	300		"	210		142	10-349			
2-Butanone	9.9		"	10.0		98.6	49-152			
2-Hexanone	10		"	10.0		103	51-146			
4-Methyl-2-pentanone	11		"	10.0		111	57-145			
Acetone	9.0		"	10.0		89.6	14-150			
Acrolein	4.4		"	10.0		44.4	10-153			
Acrylonitrile	11		"	10.0		110	51-150			
Benzene	11		"	10.0		109	85-126			
Bromochloromethane	11		"	10.0		111	77-128			
Bromodichloromethane	10		"	10.0		104	79-128			
Bromoform	10		"	10.0		104	78-133			
Bromomethane	5.8		"	10.0		57.8	43-168			
Carbon disulfide	8.6		"	10.0		86.3	68-146			
Carbon tetrachloride	11		"	10.0		105	77-141			
Chlorobenzene	11		"	10.0		106	88-120			
Chloroethane	11		"	10.0		106	65-136			
Chloroform	11		"	10.0		108	82-128			
Chloromethane	6.8		"	10.0		68.4	43-155			
cis-1,2-Dichloroethylene	11		"	10.0		109	83-129			
cis-1,3-Dichloropropylene	10		"	10.0		101	80-131			
Cyclohexane	4.9		"	10.0		48.8	63-149	Low Bias		
Dibromochloromethane	11		"	10.0		106	80-130			
Dibromomethane	10		"	10.0		104	72-134			
Dichlorodifluoromethane	11		"	10.0		112	44-144			
Ethyl Benzene	11		"	10.0		109	80-131			
Hexachlorobutadiene	7.0		"	10.0		69.7	67-146			
Isopropylbenzene	11		"	10.0		108	76-140			
Methyl acetate	12		"	10.0		116	51-139			
Methyl tert-butyl ether (MTBE)	11		"	10.0		110	76-135			
Methylcyclohexane	10		"	10.0		102	72-143			
Methylene chloride	12		"	10.0		115	55-137			



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91076 - EPA 5030B

LCS (BJ91076-BS1)

Prepared & Analyzed: 10/22/2019

n-Butylbenzene	12		ug/L	10.0		121	79-132				
n-Propylbenzene	11		"	10.0		111	78-133				
o-Xylene	11		"	10.0		106	78-130				
p- & m- Xylenes	22		"	20.0		110	77-133				
p-Isopropyltoluene	11		"	10.0		111	81-136				
sec-Butylbenzene	11		"	10.0		114	79-137				
Styrene	11		"	10.0		106	67-132				
tert-Butyl alcohol (TBA)	49		"	50.0		97.5	25-162				
tert-Butylbenzene	9.5		"	10.0		95.1	77-138				
Tetrachloroethylene	9.0		"	10.0		90.1	82-131				
Toluene	10		"	10.0		105	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		102	78-131				
trans-1,4-dichloro-2-butene	11		"	10.0		112	63-141				
Trichloroethylene	10		"	10.0		100	82-128				
Trichlorofluoromethane	12		"	10.0		121	67-139				
Vinyl Chloride	8.7		"	10.0		87.4	58-145				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.85</i>		<i>"</i>	<i>10.0</i>		<i>98.5</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.94</i>		<i>"</i>	<i>10.0</i>		<i>99.4</i>	<i>79-122</i>				

LCS Dup (BJ91076-BSD1)

Prepared & Analyzed: 10/22/2019

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		110	82-126		3.98	30	
1,1,1-Trichloroethane	11		"	10.0		111	78-136		5.17	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		113	76-129		2.11	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		120	54-165		3.81	30	
1,1,2-Trichloroethane	11		"	10.0		106	82-123		3.15	30	
1,1-Dichloroethane	11		"	10.0		115	82-129		3.45	30	
1,1-Dichloroethylene	11		"	10.0		107	68-138		4.69	30	
1,2,3-Trichlorobenzene	9.4		"	10.0		94.2	76-136		20.6	30	
1,2,3-Trichloropropane	11		"	10.0		111	77-128		2.31	30	
1,2,4-Trichlorobenzene	9.0		"	10.0		90.4	76-137		12.2	30	
1,2,4-Trimethylbenzene	11		"	10.0		111	82-132		0.907	30	
1,2-Dibromo-3-chloropropane	11		"	10.0		110	45-147		2.95	30	
1,2-Dibromoethane	11		"	10.0		110	83-124		3.98	30	
1,2-Dichlorobenzene	11		"	10.0		109	79-123		0.00	30	
1,2-Dichloroethane	11		"	10.0		114	73-132		2.40	30	
1,2-Dichloropropane	11		"	10.0		107	78-126		4.38	30	
1,3,5-Trimethylbenzene	11		"	10.0		109	80-131		0.366	30	
1,3-Dichlorobenzene	11		"	10.0		106	86-122		0.188	30	
1,4-Dichlorobenzene	11		"	10.0		106	85-124		1.68	30	
1,4-Dioxane	310		"	210		148	10-349		4.55	30	
2-Butanone	10		"	10.0		103	49-152		4.46	30	
2-Hexanone	11		"	10.0		109	51-146		5.85	30	
4-Methyl-2-pentanone	11		"	10.0		111	57-145		0.0902	30	
Acetone	8.9		"	10.0		89.2	14-150		0.447	30	
Acrolein	3.4		"	10.0		34.3	10-153		25.7	30	
Acrylonitrile	10		"	10.0		101	51-150		8.89	30	
Benzene	11		"	10.0		113	85-126		3.51	30	
Bromochloromethane	11		"	10.0		111	77-128		0.361	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91076 - EPA 5030B

LCS Dup (BJ91076-BSD1)

Prepared & Analyzed: 10/22/2019

Bromodichloromethane	11		ug/L	10.0		110	79-128		5.96	30	
Bromoform	11		"	10.0		106	78-133		2.09	30	
Bromomethane	6.8		"	10.0		67.7	43-168		15.8	30	
Carbon disulfide	9.2		"	10.0		92.1	68-146		6.50	30	
Carbon tetrachloride	11		"	10.0		112	77-141		6.52	30	
Chlorobenzene	11		"	10.0		109	88-120		3.54	30	
Chloroethane	12		"	10.0		115	65-136		8.14	30	
Chloroform	11		"	10.0		112	82-128		4.46	30	
Chloromethane	8.3		"	10.0		82.6	43-155		18.8	30	
cis-1,2-Dichloroethylene	11		"	10.0		113	83-129		3.33	30	
cis-1,3-Dichloropropylene	11		"	10.0		106	80-131		4.94	30	
Cyclohexane	5.1		"	10.0		51.2	63-149	Low Bias	4.80	30	
Dibromochloromethane	11		"	10.0		110	80-130		3.53	30	
Dibromomethane	11		"	10.0		108	72-134		3.21	30	
Dichlorodifluoromethane	12		"	10.0		120	44-144		6.38	30	
Ethyl Benzene	12		"	10.0		117	80-131		6.91	30	
Hexachlorobutadiene	8.0		"	10.0		79.6	67-146		13.3	30	
Isopropylbenzene	11		"	10.0		107	76-140		0.836	30	
Methyl acetate	11		"	10.0		112	51-139		3.50	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		113	76-135		3.05	30	
Methylcyclohexane	11		"	10.0		110	72-143		7.45	30	
Methylene chloride	12		"	10.0		120	55-137		4.16	30	
n-Butylbenzene	12		"	10.0		124	79-132		2.94	30	
n-Propylbenzene	11		"	10.0		111	78-133		0.00	30	
o-Xylene	11		"	10.0		112	78-130		5.24	30	
p- & m- Xylenes	23		"	20.0		117	77-133		6.11	30	
p-Isopropyltoluene	11		"	10.0		114	81-136		2.41	30	
sec-Butylbenzene	12		"	10.0		117	79-137		2.51	30	
Styrene	11		"	10.0		113	67-132		5.83	30	
tert-Butyl alcohol (TBA)	51		"	50.0		101	25-162		3.71	30	
tert-Butylbenzene	9.7		"	10.0		97.0	77-138		1.98	30	
Tetrachloroethylene	9.6		"	10.0		96.4	82-131		6.76	30	
Toluene	11		"	10.0		110	80-127		4.58	30	
trans-1,2-Dichloroethylene	11		"	10.0		110	80-132		4.86	30	
trans-1,3-Dichloropropylene	11		"	10.0		108	78-131		5.14	30	
trans-1,4-dichloro-2-butene	11		"	10.0		108	63-141		3.46	30	
Trichloroethylene	11		"	10.0		106	82-128		5.70	30	
Trichlorofluoromethane	12		"	10.0		118	67-139		2.67	30	
Vinyl Chloride	9.5		"	10.0		95.1	58-145		8.44	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	10.4		"	10.0		104	69-130				
Surrogate: SURRE: Toluene-d8	9.95		"	10.0		99.5	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.75		"	10.0		97.5	79-122				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91182 - EPA 3535A											
Blank (BJ91182-BLK1)											
										Prepared: 10/21/2019 Analyzed: 10/23/2019	
1,4-Dioxane	ND	0.200	ug/L								
<i>Surrogate: 1,4-Dioxane-d8</i>	3.60		"	5.00		72.0	50-130				
LCS (BJ91182-BS1)											
										Prepared: 10/21/2019 Analyzed: 10/23/2019	
1,4-Dioxane	3.20	0.200	ug/L	5.00		64.0	50-130				
<i>Surrogate: 1,4-Dioxane-d8</i>	3.40		"	5.00		68.0	50-130				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91403 - SPE Ext-PFAS-EPA 537.1M

Blank (BJ91403-BLK1)

Prepared: 10/23/2019 Analyzed: 10/24/2019

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	ng/L								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
N-EtFOSAA	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTTrDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Surrogate: M3PFBS	44.8		"	74.3		60.2	25-150				
Surrogate: M5PFHxA	45.3		"	80.0		56.7	25-150				
Surrogate: M4PFHpA	58.7		"	80.0		73.3	25-150				
Surrogate: M3PFHxS	44.2		"	75.7		58.3	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	47.9		"	80.0		59.9	25-150				
Surrogate: M6PFDA	47.6		"	80.0		59.6	25-150				
Surrogate: M7PFUdA	41.0		"	80.0		51.3	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	36.5		"	80.0		45.6	25-150				
Surrogate: M2PFTeDA	29.2		"	80.0		36.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	45.6		"	80.0		57.0	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	45.8		"	76.6		59.9	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	45.8		"	80.0		57.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	42.9		"	80.0		53.6	10-150				
Surrogate: d3-N-MeFOSAA	47.9		"	80.0		59.9	25-150				
Surrogate: d5-N-EtFOSAA	49.0		"	80.0		61.3	25-150				
Surrogate: M2-6:2 FTS	56.2		"	75.9		74.1	25-150				
Surrogate: M2-8:2 FTS	61.0		"	76.6		79.6	25-150				
Surrogate: M9PFNA	48.9		"	80.0		61.1	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					Limit	

Batch BJ91403 - SPE Ext-PFAS-EPA 537.1M

LCS (BJ91403-BS1)

Prepared: 10/23/2019 Analyzed: 10/24/2019

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	75.9	2.00	ng/L	76.8		98.9	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	75.3	5.00	"	76.0		99.1	50-130				
N-EtFOSAA	78.7	2.00	"	80.0		98.3	50-130				
N-MeFOSAA	79.9	2.00	"	80.0		99.9	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	70.9	2.00	"	77.2		91.8	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	83.0	2.00	"	79.6		104	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	78.9	2.00	"	80.0		98.6	50-130				
Perfluorobutanesulfonic acid (PFBS)	74.5	2.00	"	70.8		105	50-130				
Perfluorodecanoic acid (PFDA)	73.2	2.00	"	80.0		91.5	50-130				
Perfluorododecanoic acid (PFDoA)	90.9	2.00	"	80.0		114	50-130				
Perfluoroheptanoic acid (PFHpA)	65.3	2.00	"	80.0		81.6	50-130				
Perfluorohexanesulfonic acid (PFHxS)	63.4	2.00	"	59.2		107	50-130				
Perfluorohexanoic acid (PFHxA)	75.3	2.00	"	80.0		94.2	50-130				
Perfluoro-n-butanoic acid (PFBA)	79.8	2.00	"	80.0		99.7	50-130				
Perfluorononanoic acid (PFNA)	76.9	2.00	"	76.8		100	50-130				
Perfluorooctanesulfonic acid (PFOS)	61.7	2.00	"	58.4		106	50-130				
Perfluorooctanoic acid (PFOA)	81.1	2.00	"	80.0		101	50-130				
Perfluoropentanoic acid (PFPeA)	80.8	2.00	"	80.0		101	50-130				
Perfluorotetradecanoic acid (PFTA)	77.5	2.00	"	80.0		96.8	50-130				
Perfluorotridecanoic acid (PFTTrDA)	77.2	2.00	"	80.0		96.5	50-130				
Perfluoroundecanoic acid (PFUnA)	88.1	2.00	"	80.0		110	50-130				
Surrogate: M3PFBS	44.5		"	74.3		59.8	25-150				
Surrogate: M5PFHxA	45.3		"	80.0		56.7	25-150				
Surrogate: M4PFHpA	55.9		"	80.0		69.8	25-150				
Surrogate: M3PFHxS	43.3		"	75.7		57.2	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	45.7		"	80.0		57.1	25-150				
Surrogate: M6PFDA	39.9		"	80.0		49.9	25-150				
Surrogate: M7PFUdA	35.0		"	80.0		43.7	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	30.2		"	80.0		37.8	25-150				
Surrogate: M2PFTeDA	27.3		"	80.0		34.1	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	46.7		"	80.0		58.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.4		"	76.6		58.0	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	46.6		"	80.0		58.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	41.1		"	80.0		51.3	10-150				
Surrogate: d3-N-MeFOSAA	46.7		"	80.0		58.3	25-150				
Surrogate: d5-N-EtFOSAA	44.6		"	80.0		55.7	25-150				
Surrogate: M2-6:2 FTS	48.1		"	75.9		63.3	25-150				
Surrogate: M2-8:2 FTS	45.7		"	76.6		59.7	25-150				
Surrogate: M9PFNA	48.3		"	80.0		60.4	25-150				



Gas Chromatography/Flame Ionization Detector - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91319 - Preparation for GC Analysis											
Blank (BJ91319-BLK1)										Prepared: 10/22/2019 Analyzed: 10/23/2019	
Ethylene Glycol	ND	10.0	mg/L								
Propylene Glycol	ND	10.0	"								
<i>Surrogate: 1,4-Butanediol</i>	<i>46.8</i>		<i>"</i>	<i>50.0</i>		<i>93.6</i>	<i>30-130</i>				
LCS (BJ91319-BS1)										Prepared: 10/22/2019 Analyzed: 10/23/2019	
Ethylene Glycol	46.2	10.0	mg/L	50.0		92.5	60-140				
Propylene Glycol	46.0	10.0	"	50.0		92.0	60-140				
<i>Surrogate: 1,4-Butanediol</i>	<i>47.4</i>		<i>"</i>	<i>50.0</i>		<i>94.8</i>	<i>30-130</i>				
Matrix Spike (BJ91319-MS1)										Prepared: 10/22/2019 Analyzed: 10/23/2019	
*Source sample: 19J0802-13 (FMW-25)											
Ethylene Glycol	34.9	10.0	mg/L	50.0	ND	69.9	60-140				
Propylene Glycol	40.5	10.0	"	50.0	ND	81.0	60-140				
<i>Surrogate: 1,4-Butanediol</i>	<i>42.7</i>		<i>"</i>	<i>50.0</i>		<i>85.3</i>	<i>30-130</i>				
Matrix Spike Dup (BJ91319-MSD1)										Prepared: 10/22/2019 Analyzed: 10/23/2019	
*Source sample: 19J0802-13 (FMW-25)											
Ethylene Glycol	30.6	10.0	mg/L	50.0	ND	61.2	60-140		13.3	200	
Propylene Glycol	35.6	10.0	"	50.0	ND	71.3	60-140		12.7	200	
<i>Surrogate: 1,4-Butanediol</i>	<i>33.1</i>		<i>"</i>	<i>50.0</i>		<i>66.3</i>	<i>30-130</i>				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19J0802-01	XDD MW-10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0802-03	FMW-39	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0802-04	FMW-23	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0802-08	FMW-14	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0802-10	FMW-2R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0802-14	DPW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0802-16	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
- B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

- * Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.



Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: Did not receive a Trip Blank as listed on the COC.



York Analytical Laboratories, Inc.
 120 Research Drive 132-02 89th Ave
 Stratford, CT 06615 Queens, NY 11418
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.

19J0902

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
 This document serves as your written authorization for YORK to proceed with the analyses requested below.
 Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 3

YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: WSP USA	Company:	Company:	Company:		RUSH - Next Day
Address: 4 Westchester Park Dr White Plains, NY 10604	Address:	Address:	Address:		RUSH - Two Day
Phone: 914 694 5711	Phone: Same	Phone: Same	Phone: Same	YOUR Project Name Westchester County Airport (WCA)	RUSH - Three Day
Contact: John Benvegna	Contact:	Contact:	Contact:		RUSH - Four Day
E-mail: John.Benvegna@WSP.com	E-mail:	E-mail:	E-mail:	YOUR PO#: 31402218.000	Standard (5-7 Day) <input checked="" type="checkbox"/>

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Mike Reiff <i>[Signature]</i>	Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
	S - soil / solid	New York	<input checked="" type="checkbox"/>	Summary Report	CT RCP	Standard Excel EDD
	<u>GW - groundwater</u>	New Jersey	<input type="checkbox"/>	QA Report	CT RCP DQA/DUE	EquiS (Standard)
	DW - drinking water	Connecticut	<input type="checkbox"/>	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EquiS
	WW - wastewater	Pennsylvania	<input type="checkbox"/>	<u>NY ASP B Package</u>	NJDEP SRP HazSite	
O - Oil ; Other	Other	<input type="checkbox"/>		NJDQKP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested				Container Description
			EPA 537	8260 Full	1,4 Dioxane	Glycols	
XDD MW-10	GW	10/16/19 1045	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		2 plastics, 3 vials, 1 AM
XDD MW-11		1055	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2 plastics, 2 vials, 1 AM
FMW-39		1135	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	1 vial
FMW-23		1220	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
BR MW-1		1345	<input checked="" type="checkbox"/>				
FMW-6		1415	<input checked="" type="checkbox"/>				
FMW-7		1430	<input checked="" type="checkbox"/>				
FMW-14		1450	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			3 vials
Field Duplicate		-	<input checked="" type="checkbox"/>				

Comments:	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO ₃ ___ H ₂ SO ₄ ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____	Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
<i>[Signature]</i>	10/16/19 1545	<i>[Signature]</i>	10-17-19 7:10	<i>[Signature]</i>	10-17-19 1448
Sa Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Sa Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Fabel	10/17/19 1448
					Temp. Received at Lab
					2.5 Degrees C



York Analytical Laboratories, Inc.
 120 Research Drive 132-02 89th Ave
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Field Chain-of-Custody Record

YORK Project No.

19J0802

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Page 2 of 3

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: WSP USA		Company:		Company:		_____		RUSH - Next Day	
Address: 4 Westchester Park Dr White Plains, NY 10604		Address: <i>same</i>		Address: <i>same</i>		_____		RUSH - Two Day	
Phone: 914 694 5711		Phone: <i>same</i>		Phone: <i>same</i>		_____		RUSH - Three Day	
Contact: John Benvegna		Contact: <i>same</i>		Contact: <i>same</i>		_____		RUSH - Four Day	
E-mail: John.Benvegna@WSP.com		E-mail: <i>same</i>		E-mail: <i>same</i>		_____		Standard (5-7 Day) <input checked="" type="checkbox"/>	
						YOUR Project Name Westchester County Airport (WCA)			
						YOUR PO#: 31402218.000			

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) <i>Mike Reiff</i>	Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
	S - soil / solid	New York	<input checked="" type="checkbox"/>	Summary Report	CT RCP	Standard Excel EDD
	<u>GW - groundwater</u>	New Jersey	<input type="checkbox"/>	QA Report	CT RCP DQA/DUE	EquiS (Standard)
	DW - drinking water	Connecticut	<input type="checkbox"/>	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EquiS
	WW - wastewater	Pennsylvania	<input type="checkbox"/>	<u>NY ASP B Package</u>	NJDEP SRP HazSite	
O - Oil ; Other	Other	<input type="checkbox"/>		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested				Container Description
	GW		EPA 537	8260 Full	1,4 Dioxane	Glycols	
FMW-22	GW	10/16/19 1010	✓	✓			2 Plastics, 3 Vials
FMW-24	↓	1045	✓			✓	2 Plastics, 2 Vials
FMW-26	↓	1125	✓				
FMW-25	↓	1240	✓			✓	2 Vials
FMW-25 Matrix Spike	↓	1240	✓			✓	
FMW-25 Matrix Spike Duplicate	↓	1240	✓			✓	
DPW-2	↓	1330	✓		✓		
PAR-03	↓	1345	✓				
Field Blank	DI	1515	✓	✓	✓	✓	5 Vials 1 Amber

Comments:	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO ₃ ___ H ₂ SO ₄ ___ NaOH ___ ZnAc ___	Field Filtered ___
	Ascorbic Acid ___ Other: _____	Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
<i>[Signature]</i> WSP	10/16/19 1545	<i>[Signature]</i>	10-17-19 7:10	<i>[Signature]</i>	10-17-19 1448
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Temp. Received at Lab
				<i>[Signature]</i> 10/17/19 1448	2.5 Degrees C



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Field Chain-of-Custody Record

YORK Project No.
 19J0802

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Page 3 of 3

YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: WSP USA	Company:	Company:	Company:	YOUR Project Name Westchester County Airport (WCA)	RUSH - Next Day
Address: 4 Westchester Park DR White Plains, NY 10604	Address:	Address:	Address:		RUSH - Two Day
Phone: 914 694 5711	Phone: Same	Phone: Same	Phone: Same		RUSH - Three Day
Contact: John Benvegna	Contact:	Contact:	Contact:		RUSH - Four Day
E-mail: John.Benvegna@WSP.com	E-mail:	E-mail:	E-mail:	YOUR PO#: 31402218.000	Standard (5-7 Day) <input checked="" type="checkbox"/>

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Mike Beiff <i>[Signature]</i>	Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
	S - soil / solid	New York	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
	GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EquiS (Standard)	
	DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EquiS	
	WW - wastewater	Pennsylvania	NY ASP B Package	NJDEP SRP HazSite		
O - Oil ; Other	Other		NJDKQP	Other:		

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested			Container Description
TRIP BLANK	PI		EPA 537	8260 Full	1,4 Dioxane	Glycols
				X		

Comments:	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO ₃ ___ H ₂ SO ₄ ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____	Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
<i>[Signature]</i> WSP	10/16/19 1545	<i>[Signature]</i>	10-17-19 7:10	<i>[Signature]</i>	10-17-19 1448
Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Hall 10/17/19 1448	Temp. Received at Lab 2.5 Degrees C

Page 79 of 79



Technical Report

prepared for:

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Report Date: 10/25/2019
Client Project ID: 31402218.000 Westchester County Airport (WCA)
York Project (SDG) No.: 19J0845

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/25/2019
Client Project ID: 31402218.000 Westchester County Airport (WCA)
York Project (SDG) No.: 19J0845

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 18, 2019 and listed below. The project was identified as your project: **31402218.000 Westchester County Airport (WCA)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19J0845-01	FMW-8	Water	10/17/2019	10/18/2019
19J0845-02	FMW-3	Water	10/17/2019	10/18/2019
19J0845-03	FMW-13R	Water	10/17/2019	10/18/2019
19J0845-04	UW-1	Water	10/17/2019	10/18/2019
19J0845-05	FMW-15	Water	10/17/2019	10/18/2019
19J0845-06	FMW-16	Water	10/17/2019	10/18/2019
19J0845-07	MW-15S	Water	10/17/2019	10/18/2019
19J0845-08	MW-16	Water	10/17/2019	10/18/2019
19J0845-09	MW-17S	Water	10/17/2019	10/18/2019
19J0845-10	MW-18	Water	10/17/2019	10/18/2019
19J0845-11	Field Blank	Water	10/17/2019	10/18/2019
19J0845-12	Trip Blank	Water	10/17/2019	10/18/2019

General Notes for York Project (SDG) No.: 19J0845

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/25/2019





Sample Information

Client Sample ID: FMW-8

York Sample ID: 19J0845-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 9:50 am	10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ



Sample Information

Client Sample ID: FMW-8

York Sample ID: 19J0845-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 9:50 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
67-64-1	Acetone	1.0	CCV-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
74-83-9	Bromomethane	0.30	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.58		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ



Sample Information

Client Sample ID: FMW-8

York Sample ID: 19J0845-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 9:50 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:22	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 14:22	LLJ

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: FMW-8

York Sample ID: 19J0845-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 9:50 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	110 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	97.4 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.5 %			79-122						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	45.4		ng/L	25.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	44.0		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	63.8		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	108		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	886		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	210		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	88.3		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
375-95-1	* Perfluorononanoic acid (PFNA)	168		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	1880		ng/L	20.0	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:45	KT



Sample Information

Client Sample ID: FMW-8

York Sample ID: 19J0845-01

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 9:50 am	<u>Date Received</u> 10/18/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	* Perfluorooctanoic acid (PFOA)	245		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	259		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 19:45	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	66.9 %	25-150
Surrogate: M5PFHxA	62.9 %	25-150
Surrogate: M4PFHpA	71.4 %	25-150
Surrogate: M3PFHxS	61.6 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	59.0 %	25-150
Surrogate: M6PFDA	62.5 %	25-150
Surrogate: M7PFUdA	44.7 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	45.7 %	25-150
Surrogate: M2PFTeDA	37.6 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	69.9 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	63.9 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	64.5 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	60.0 %	10-150
Surrogate: d3-N-MeFOSAA	61.4 %	25-150
Surrogate: d5-N-EtFOSAA	60.8 %	25-150
Surrogate: M2-6:2 FTS	75.0 %	25-150
Surrogate: M2-8:2 FTS	73.4 %	25-150
Surrogate: M9PFNA	56.9 %	25-150

Sample Information

Client Sample ID: FMW-3

York Sample ID: 19J0845-02

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 10:00 am	<u>Date Received</u> 10/18/2019
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Sample Information

Client Sample ID: FMW-3

York Sample ID: 19J0845-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 10:00 am

10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.0	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	20.6		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	6.50		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	8.39		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
375-95-1	* Perfluorononanoic acid (PFNA)	8.67		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	60.6		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	7.20		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	11.2		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 16:12	KT

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: FMW-3

York Sample ID: 19J0845-02

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 10:00 am	<u>Date Received</u> 10/18/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFBS	58.3 %			25-150					
	Surrogate: M5PFHxA	46.0 %			25-150					
	Surrogate: M4PFHpA	57.1 %			25-150					
	Surrogate: M3PFHxS	63.5 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	62.0 %			25-150					
	Surrogate: M6PFDA	67.0 %			25-150					
	Surrogate: M7PFUdA	62.5 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	49.9 %			25-150					
	Surrogate: M2PFTeDA	36.7 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	72.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	65.9 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	41.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	49.9 %			10-150					
	Surrogate: d3-N-MeFOSAA	84.8 %			25-150					
	Surrogate: d5-N-EtFOSAA	83.8 %			25-150					
	Surrogate: M2-6:2 FTS	185 %	PFSu-H		25-150					
	Surrogate: M2-8:2 FTS	189 %	PFSu-H		25-150					
	Surrogate: M9PFNA	64.4 %			25-150					

Sample Information

Client Sample ID: FMW-13R

York Sample ID: 19J0845-03

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 10:30 am	<u>Date Received</u> 10/18/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ



Sample Information

Client Sample ID: FMW-13R

York Sample ID: 19J0845-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 10:30 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ



Sample Information

Client Sample ID: FMW-13R

York Sample ID: 19J0845-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 10:30 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
74-83-9	Bromomethane	0.31	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ



Sample Information

Client Sample ID: FMW-13R

York Sample ID: 19J0845-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 10:30 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 14:49	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	120 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	96.0 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	92.7 %	79-122								



Sample Information

Client Sample ID: FMW-13R

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31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 10:30 am

10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	742		ng/L	25.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	28.8		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	41.4		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	253		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	959		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	448		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	251		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
375-95-1	* Perfluorononanoic acid (PFNA)	111		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	1660		ng/L	20.0	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 17:05	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	167		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	913		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 20:39	KT



Sample Information

Client Sample ID: FMW-13R **York Sample ID:** 19J0845-03
York Project (SDG) No. 19J0845 Client Project ID 31402218.000 Westchester County Airport (WCA) Matrix Water Collection Date/Time October 17, 2019 10:30 am Date Received 10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result		Acceptance Range						
	Surrogate: M3PFBS	66.3 %		25-150						
	Surrogate: M5PFHxA	60.6 %		25-150						
	Surrogate: M4PFHpA	67.6 %		25-150						
	Surrogate: M3PFHxS	60.7 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	64.4 %		25-150						
	Surrogate: M6PFDA	67.6 %		25-150						
	Surrogate: M7PFUDA	55.9 %		25-150						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	52.3 %		25-150						
	Surrogate: M2PFTeDA	48.7 %		10-150						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	65.1 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	64.3 %		25-150						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	60.2 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	55.7 %		10-150						
	Surrogate: d3-N-MeFOSAA	62.8 %		25-150						
	Surrogate: d5-N-EtFOSAA	64.6 %		25-150						
	Surrogate: M2-6:2 FTS	74.5 %		25-150						
	Surrogate: M2-8:2 FTS	82.8 %		25-150						
	Surrogate: M9PFNA	61.1 %		25-150						

Sample Information

Client Sample ID: UW-1 **York Sample ID:** 19J0845-04
York Project (SDG) No. 19J0845 Client Project ID 31402218.000 Westchester County Airport (WCA) Matrix Water Collection Date/Time October 17, 2019 11:00 am Date Received 10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT



Sample Information

Client Sample ID: UW-1

York Sample ID: 19J0845-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 11:00 am

10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	10.6		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	45.8		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	126		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	39.1		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	15.3		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	900		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	40.1		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	34.6		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 21:33	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS 64.5 %
 Surrogate: M5PFHxA 63.8 %
 Surrogate: M4PFHpA 68.2 %

25-150
 25-150
 25-150



Sample Information

Client Sample ID: UW-1

York Sample ID: 19J0845-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 11:00 am	10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	64.4 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	66.2 %			25-150					
	Surrogate: M6PFDA	62.0 %			25-150					
	Surrogate: M7PFUdA	61.4 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	54.2 %			25-150					
	Surrogate: M2PFTeDA	49.1 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	67.3 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	64.5 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	64.9 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	61.1 %			10-150					
	Surrogate: d3-N-MeFOSAA	66.0 %			25-150					
	Surrogate: d5-N-EtFOSAA	65.6 %			25-150					
	Surrogate: M2-6:2 FTS	79.3 %			25-150					
	Surrogate: M2-8:2 FTS	86.8 %			25-150					
	Surrogate: M9PFNA	65.8 %			25-150					

Sample Information

Client Sample ID: FMW-15

York Sample ID: 19J0845-05

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 11:45 am	10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ



Sample Information

Client Sample ID: FMW-15

York Sample ID: 19J0845-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 11:45 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
78-93-3	2-Butanone	0.35	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ



Sample Information

Client Sample ID: FMW-15

York Sample ID: 19J0845-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 11:45 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
74-83-9	Bromomethane	0.28	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ



Sample Information

Client Sample ID: FMW-15

York Sample ID: 19J0845-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 11:45 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 15:17	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	113 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	97.6 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	97.0 %	79-122								

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: FMW-15

York Sample ID: 19J0845-05

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 11:45 am	10/18/2019

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	25.2		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	14.3		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	93.2		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	34.0		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	12.8		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
375-95-1	* Perfluorononanoic acid (PFNA)	50.5		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	33.6		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	21.7		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	35.9		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	51.8		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:27	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		54.2 %	25-150							



Sample Information

Client Sample ID: FMW-15

York Sample ID: 19J0845-05

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 11:45 am	10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	52.5 %				25-150				
	Surrogate: M4PFHpA	59.2 %				25-150				
	Surrogate: M3PFHxS	53.6 %				25-150				
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	55.1 %				25-150				
	Surrogate: M6PFDA	57.0 %				25-150				
	Surrogate: M7PFUdA	41.3 %				25-150				
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	43.7 %				25-150				
	Surrogate: M2PFTeDA	32.9 %				10-150				
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	58.1 %				25-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	54.3 %				25-150				
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	53.5 %				25-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	49.4 %				10-150				
	Surrogate: d3-N-MeFOSAA	51.2 %				25-150				
	Surrogate: d5-N-EtFOSAA	51.2 %				25-150				
	Surrogate: M2-6:2 FTS	70.0 %				25-150				
	Surrogate: M2-8:2 FTS	65.3 %				25-150				
	Surrogate: M9PFNA	54.1 %				25-150				

Sample Information

Client Sample ID: FMW-16

York Sample ID: 19J0845-06

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 12:10 pm	10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ



Sample Information

Client Sample ID: FMW-16

York Sample ID: 19J0845-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 12:10 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
78-93-3	2-Butanone	0.56	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
67-64-1	Acetone	1.1	CCV-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ



Sample Information

Client Sample ID: FMW-16

York Sample ID: 19J0845-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 12:10 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
74-83-9	Bromomethane	0.25	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ



Sample Information

Client Sample ID: FMW-16

York Sample ID: 19J0845-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 12:10 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 15:44	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	117 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	95.9 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.7 %	79-122								

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: FMW-16

York Sample ID: 19J0845-06

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 12:10 pm	10/18/2019

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	4.17		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	23.4		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	9.73		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	356		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 17:59	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	14.5		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	5.76		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
375-95-1	* Perfluorononanoic acid (PFNA)	3.72		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	181		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	13.9		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	11.5		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/22/2019 22:54	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	50.8 %	25-150



Sample Information

Client Sample ID: FMW-16

York Sample ID: 19J0845-06

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 12:10 pm	<u>Date Received</u> 10/18/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	50.5 %			25-150					
	Surrogate: M4PFHpA	60.7 %			25-150					
	Surrogate: M3PFHxS	58.0 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	62.1 %			25-150					
	Surrogate: M6PFDA	60.8 %			25-150					
	Surrogate: M7PFUdA	50.9 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	44.6 %			25-150					
	Surrogate: M2PFTeDA	40.3 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	60.1 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	55.4 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	46.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	47.4 %			10-150					
	Surrogate: d3-N-MeFOSAA	58.4 %			25-150					
	Surrogate: d5-N-EtFOSAA	58.3 %			25-150					
	Surrogate: M2-6:2 FTS	99.6 %			25-150					
	Surrogate: M2-8:2 FTS	78.0 %			25-150					
	Surrogate: M9PFNA	53.3 %			25-150					

Sample Information

Client Sample ID: MW-15S

York Sample ID: 19J0845-07

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 2:20 pm	<u>Date Received</u> 10/18/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ



Sample Information

Client Sample ID: MW-15S

York Sample ID: 19J0845-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 2:20 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
78-93-3	2-Butanone	1.5	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
67-64-1	Acetone	4.8	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ



Sample Information

Client Sample ID: MW-15S

York Sample ID: 19J0845-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 2:20 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
74-83-9	Bromomethane	0.32	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ



Sample Information

Client Sample ID: MW-15S

York Sample ID: 19J0845-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 2:20 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 16:11	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	119 %	69-130								
2037-26-5	Surrogate: SURR: Toluene-d8	95.2 %	81-117								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	92.7 %	79-122								

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-15S

York Sample ID: 19J0845-07

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 2:20 pm	<u>Date Received</u> 10/18/2019
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Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.0	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	6.93		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	14.8		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	4.70		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 18:26	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	63.8 %	25-150
Surrogate: M5PFHxA	62.7 %	25-150



Sample Information

Client Sample ID: MW-15S					York Sample ID: 19J0845-07
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>	
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 2:20 pm	10/18/2019	

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M4PFHpA	73.0 %				25-150				
	Surrogate: M3PFHxS	64.3 %				25-150				
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	66.7 %				25-150				
	Surrogate: M6PFDA	75.1 %				25-150				
	Surrogate: M7PFUdA	59.7 %				25-150				
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	43.9 %				25-150				
	Surrogate: M2PFTeDA	34.9 %				10-150				
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	68.1 %				25-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	65.5 %				25-150				
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	64.5 %				25-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	59.3 %				10-150				
	Surrogate: d3-N-MeFOSAA	79.4 %				25-150				
	Surrogate: d5-N-EtFOSAA	84.3 %				25-150				
	Surrogate: M2-6:2 FTS	118 %				25-150				
	Surrogate: M2-8:2 FTS	125 %				25-150				
	Surrogate: M9PFNA	69.1 %				25-150				

Sample Information

Client Sample ID: MW-16					York Sample ID: 19J0845-08
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>	
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 2:40 pm	10/18/2019	

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ



Sample Information

Client Sample ID: MW-16

York Sample ID: 19J0845-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 2:40 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-34-3	1,1-Dichloroethane	0.31	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
78-93-3	2-Butanone	0.52	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ



Sample Information

Client Sample ID: MW-16

York Sample ID: 19J0845-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 2:40 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.45	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
108-87-2	Methylcyclohexane	0.70		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ



Sample Information

Client Sample ID: MW-16

York Sample ID: 19J0845-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 2:40 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
135-98-8	sec-Butylbenzene	0.49	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
127-18-4	Tetrachloroethylene	0.28	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 16:39	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	121 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	97.4 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	94.2 %	79-122								



Sample Information

Client Sample ID: MW-16

York Sample ID: 19J0845-08

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 2:40 pm	<u>Date Received</u> 10/18/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.0	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	5.70		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	4.69		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	6.11		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
375-95-1	* Perfluorononanoic acid (PFNA)	5.93		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	66.4		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	7.52		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	5.13		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 19:20	KT

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: MW-16

York Sample ID: 19J0845-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 2:40 pm	10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFBS	61.5 %			25-150					
	Surrogate: M5PFHxA	58.6 %			25-150					
	Surrogate: M4PFHpA	73.7 %			25-150					
	Surrogate: M3PFHxS	63.8 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	61.0 %			25-150					
	Surrogate: M6PFDA	67.0 %			25-150					
	Surrogate: M7PFUdA	65.1 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	53.2 %			25-150					
	Surrogate: M2PFTeDA	41.2 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	63.9 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	63.8 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	61.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	50.8 %			10-150					
	Surrogate: d3-N-MeFOSAA	64.4 %			25-150					
	Surrogate: d5-N-EtFOSAA	66.0 %			25-150					
	Surrogate: M2-6:2 FTS	102 %			25-150					
	Surrogate: M2-8:2 FTS	98.6 %			25-150					
	Surrogate: M9PFNA	60.4 %			25-150					

Sample Information

Client Sample ID: MW-17S

York Sample ID: 19J0845-09

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 2:00 pm	10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT



Sample Information

Client Sample ID: MW-17S

York Sample ID: 19J0845-09

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 2:00 pm	<u>Date Received</u> 10/18/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	2.90		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	5.32		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	10.7		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	55.3		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	16.7		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	12.1		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
375-95-1	* Perfluorononanoic acid (PFNA)	23.9		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	132		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	17.9		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	19.9		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 00:42	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	52.6 %	25-150
Surrogate: M5PFHxA	51.9 %	25-150
Surrogate: M4PFHpA	59.6 %	25-150
Surrogate: M3PFHxS	55.5 %	25-150



Sample Information

Client Sample ID: MW-17S

York Sample ID: 19J0845-09

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 2:00 pm	10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	56.9 %			25-150					
	Surrogate: M6PFDA	58.4 %			25-150					
	Surrogate: M7PFUdA	48.9 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	45.3 %			25-150					
	Surrogate: M2PFTeDA	31.3 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	55.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	53.7 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	51.2 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	41.3 %			10-150					
	Surrogate: d3-N-MeFOSAA	54.1 %			25-150					
	Surrogate: d5-N-EtFOSAA	52.7 %			25-150					
	Surrogate: M2-6:2 FTS	88.7 %			25-150					
	Surrogate: M2-8:2 FTS	79.4 %			25-150					
	Surrogate: M9PFNA	53.6 %			25-150					

Sample Information

Client Sample ID: MW-18

York Sample ID: 19J0845-10

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 1:30 pm	10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.0	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT



Sample Information

Client Sample ID: MW-18

York Sample ID: 19J0845-10

<u>York Project (SDG) No.</u> 19J0845	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 17, 2019 1:30 pm	<u>Date Received</u> 10/18/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	11.8		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 20:41	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	58.9 %	25-150
Surrogate: M5PFHxA	57.7 %	25-150
Surrogate: M4PFHpA	71.9 %	25-150
Surrogate: M3PFHxS	61.2 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	62.8 %	25-150
Surrogate: M6PFDA	55.7 %	25-150
Surrogate: M7PFUdA	55.8 %	25-150



Sample Information

Client Sample ID: MW-18

York Sample ID: 19J0845-10

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 1:30 pm	10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	54.1 %			25-150					
	Surrogate: M2PFTeDA	41.5 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	63.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	61.3 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	58.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	55.5 %			10-150					
	Surrogate: d3-N-MeFOSAA	66.0 %			25-150					
	Surrogate: d5-N-EtFOSAA	69.4 %			25-150					
	Surrogate: M2-6:2 FTS	119 %			25-150					
	Surrogate: M2-8:2 FTS	105 %			25-150					
	Surrogate: M9PFNA	62.0 %			25-150					

Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0845-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 3:00 pm	10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0845-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 3:00 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
67-64-1	Acetone	1.2	CCV-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0845-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 3:00 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	0.33	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-09-2	Methylene chloride	1.4	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0845-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 3:00 pm

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 13:55	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	116 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	96.2 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.7 %	79-122								

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0845-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 3:00 pm

10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/22/2019 10:50	10/23/2019 15:18	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS 85.8 %

25-150

Surrogate: M5PFHxA 84.5 %

25-150

Surrogate: M4PFHpA 88.4 %

25-150

Surrogate: M3PFHxS 83.2 %

25-150



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0845-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 3:00 pm	10/18/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	61.0 %			25-150					
	Surrogate: M6PFDA	88.7 %			25-150					
	Surrogate: M7PFUdA	77.9 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	69.7 %			25-150					
	Surrogate: M2PFTeDA	54.4 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	85.8 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	79.7 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	87.2 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	69.2 %			10-150					
	Surrogate: d3-N-MeFOSAA	81.4 %			25-150					
	Surrogate: d5-N-EtFOSAA	92.4 %			25-150					
	Surrogate: M2-6:2 FTS	82.5 %			25-150					
	Surrogate: M2-8:2 FTS	154 %	PFSu-H		25-150					
	Surrogate: M9PFNA	79.6 %			25-150					

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0845-12

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0845	31402218.000 Westchester County Airport (WCA)	Water	October 17, 2019 12:00 am	10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0845-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 12:00 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
78-93-3	2-Butanone	0.31	CCV-E, B, J	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0845-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 12:00 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
74-83-9	Bromomethane	0.32	CCV-E, B, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0845-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0845

31402218.000 Westchester County Airport (WCA)

Water

October 17, 2019 12:00 am

10/18/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/22/2019 06:28	10/22/2019 13:28	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	99.5 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	102 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %	79-122								



Analytical Batch Summary

Batch ID: BJ91076

Preparation Method: EPA 5030B

Prepared By: LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19J0845-01	FMW-8	10/22/19
19J0845-03	FMW-13R	10/22/19
19J0845-05	FMW-15	10/22/19
19J0845-06	FMW-16	10/22/19
19J0845-07	MW-15S	10/22/19
19J0845-08	MW-16	10/22/19
19J0845-11	Field Blank	10/22/19
19J0845-12	Trip Blank	10/22/19
BJ91076-BLK1	Blank	10/22/19
BJ91076-BS1	LCS	10/22/19
BJ91076-BSD1	LCS Dup	10/22/19

Batch ID: BJ91322

Preparation Method: SPE Ext-PFAS-EPA 537.1M

Prepared By: WL

YORK Sample ID	Client Sample ID	Preparation Date
19J0845-01	FMW-8	10/22/19
19J0845-01RE1	FMW-8	10/22/19
19J0845-02	FMW-3	10/22/19
19J0845-03	FMW-13R	10/22/19
19J0845-03RE1	FMW-13R	10/22/19
19J0845-04	UW-1	10/22/19
19J0845-05	FMW-15	10/22/19
19J0845-06	FMW-16	10/22/19
19J0845-06RE1	FMW-16	10/22/19
19J0845-07	MW-15S	10/22/19
19J0845-08	MW-16	10/22/19
19J0845-09	MW-17S	10/22/19
19J0845-10	MW-18	10/22/19
19J0845-11	Field Blank	10/22/19
BJ91322-BLK1	Blank	10/22/19
BJ91322-BS1	LCS	10/22/19
BJ91322-DUP1	Duplicate	10/22/19
BJ91322-MS1	Matrix Spike	10/22/19
BJ91322-MS2	Matrix Spike	10/22/19



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91076 - EPA 5030B

Blank (BJ91076-BLK1)

Prepared & Analyzed: 10/22/2019

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	1.3	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	0.27	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

Batch BJ91076 - EPA 5030B

Blank (BJ91076-BLK1)

Prepared & Analyzed: 10/22/2019

Methylene chloride	ND	2.0	ug/L								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<hr/>											
Surrogate: SURRE: 1,2-Dichloroethane-d4	11.6		"	10.0		116		69-130			
Surrogate: SURRE: Toluene-d8	9.51		"	10.0		95.1		81-117			
Surrogate: SURRE: p-Bromofluorobenzene	8.20		"	10.0		82.0		79-122			

LCS (BJ91076-BS1)

Prepared & Analyzed: 10/22/2019

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		106		82-126			
1,1,1-Trichloroethane	11		"	10.0		106		78-136			
1,1,2,2-Tetrachloroethane	12		"	10.0		115		76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		116		54-165			
1,1,2-Trichloroethane	10		"	10.0		103		82-123			
1,1-Dichloroethane	11		"	10.0		111		82-129			
1,1-Dichloroethylene	10		"	10.0		102		68-138			
1,2,3-Trichlorobenzene	7.7		"	10.0		76.6		76-136			
1,2,3-Trichloropropane	11		"	10.0		114		77-128			
1,2,4-Trichlorobenzene	8.0		"	10.0		80.0		76-137			
1,2,4-Trimethylbenzene	11		"	10.0		110		82-132			
1,2-Dibromo-3-chloropropane	11		"	10.0		107		45-147			
1,2-Dibromoethane	11		"	10.0		106		83-124			
1,2-Dichlorobenzene	11		"	10.0		109		79-123			
1,2-Dichloroethane	11		"	10.0		111		73-132			
1,2-Dichloropropane	10		"	10.0		103		78-126			
1,3,5-Trimethylbenzene	11		"	10.0		110		80-131			
1,3-Dichlorobenzene	11		"	10.0		106		86-122			
1,4-Dichlorobenzene	11		"	10.0		108		85-124			
1,4-Dioxane	300		"	210		142		10-349			
2-Butanone	9.9		"	10.0		98.6		49-152			
2-Hexanone	10		"	10.0		103		51-146			
4-Methyl-2-pentanone	11		"	10.0		111		57-145			
Acetone	9.0		"	10.0		89.6		14-150			
Acrolein	4.4		"	10.0		44.4		10-153			
Acrylonitrile	11		"	10.0		110		51-150			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BJ91076 - EPA 5030B

LCS (BJ91076-BS1)

Prepared & Analyzed: 10/22/2019

Benzene	11		ug/L	10.0		109	85-126				
Bromochloromethane	11		"	10.0		111	77-128				
Bromodichloromethane	10		"	10.0		104	79-128				
Bromoform	10		"	10.0		104	78-133				
Bromomethane	5.8		"	10.0		57.8	43-168				
Carbon disulfide	8.6		"	10.0		86.3	68-146				
Carbon tetrachloride	11		"	10.0		105	77-141				
Chlorobenzene	11		"	10.0		106	88-120				
Chloroethane	11		"	10.0		106	65-136				
Chloroform	11		"	10.0		108	82-128				
Chloromethane	6.8		"	10.0		68.4	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		109	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		101	80-131				
Cyclohexane	4.9		"	10.0		48.8	63-149		Low Bias		
Dibromochloromethane	11		"	10.0		106	80-130				
Dibromomethane	10		"	10.0		104	72-134				
Dichlorodifluoromethane	11		"	10.0		112	44-144				
Ethyl Benzene	11		"	10.0		109	80-131				
Hexachlorobutadiene	7.0		"	10.0		69.7	67-146				
Isopropylbenzene	11		"	10.0		108	76-140				
Methyl acetate	12		"	10.0		116	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		110	76-135				
Methylcyclohexane	10		"	10.0		102	72-143				
Methylene chloride	12		"	10.0		115	55-137				
n-Butylbenzene	12		"	10.0		121	79-132				
n-Propylbenzene	11		"	10.0		111	78-133				
o-Xylene	11		"	10.0		106	78-130				
p- & m- Xylenes	22		"	20.0		110	77-133				
p-Isopropyltoluene	11		"	10.0		111	81-136				
sec-Butylbenzene	11		"	10.0		114	79-137				
Styrene	11		"	10.0		106	67-132				
tert-Butyl alcohol (TBA)	49		"	50.0		97.5	25-162				
tert-Butylbenzene	9.5		"	10.0		95.1	77-138				
Tetrachloroethylene	9.0		"	10.0		90.1	82-131				
Toluene	10		"	10.0		105	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		102	78-131				
trans-1,4-dichloro-2-butene	11		"	10.0		112	63-141				
Trichloroethylene	10		"	10.0		100	82-128				
Trichlorofluoromethane	12		"	10.0		121	67-139				
Vinyl Chloride	8.7		"	10.0		87.4	58-145				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.85</i>		<i>"</i>	<i>10.0</i>		<i>98.5</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.94</i>		<i>"</i>	<i>10.0</i>		<i>99.4</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91076 - EPA 5030B											
LCS Dup (BJ91076-BSD1)											
Prepared & Analyzed: 10/22/2019											
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		110	82-126		3.98	30	
1,1,1-Trichloroethane	11		"	10.0		111	78-136		5.17	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		113	76-129		2.11	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		120	54-165		3.81	30	
1,1,2-Trichloroethane	11		"	10.0		106	82-123		3.15	30	
1,1-Dichloroethane	11		"	10.0		115	82-129		3.45	30	
1,1-Dichloroethylene	11		"	10.0		107	68-138		4.69	30	
1,2,3-Trichlorobenzene	9.4		"	10.0		94.2	76-136		20.6	30	
1,2,3-Trichloropropane	11		"	10.0		111	77-128		2.31	30	
1,2,4-Trichlorobenzene	9.0		"	10.0		90.4	76-137		12.2	30	
1,2,4-Trimethylbenzene	11		"	10.0		111	82-132		0.907	30	
1,2-Dibromo-3-chloropropane	11		"	10.0		110	45-147		2.95	30	
1,2-Dibromoethane	11		"	10.0		110	83-124		3.98	30	
1,2-Dichlorobenzene	11		"	10.0		109	79-123		0.00	30	
1,2-Dichloroethane	11		"	10.0		114	73-132		2.40	30	
1,2-Dichloropropane	11		"	10.0		107	78-126		4.38	30	
1,3,5-Trimethylbenzene	11		"	10.0		109	80-131		0.366	30	
1,3-Dichlorobenzene	11		"	10.0		106	86-122		0.188	30	
1,4-Dichlorobenzene	11		"	10.0		106	85-124		1.68	30	
1,4-Dioxane	310		"	210		148	10-349		4.55	30	
2-Butanone	10		"	10.0		103	49-152		4.46	30	
2-Hexanone	11		"	10.0		109	51-146		5.85	30	
4-Methyl-2-pentanone	11		"	10.0		111	57-145		0.0902	30	
Acetone	8.9		"	10.0		89.2	14-150		0.447	30	
Acrolein	3.4		"	10.0		34.3	10-153		25.7	30	
Acrylonitrile	10		"	10.0		101	51-150		8.89	30	
Benzene	11		"	10.0		113	85-126		3.51	30	
Bromochloromethane	11		"	10.0		111	77-128		0.361	30	
Bromodichloromethane	11		"	10.0		110	79-128		5.96	30	
Bromoform	11		"	10.0		106	78-133		2.09	30	
Bromomethane	6.8		"	10.0		67.7	43-168		15.8	30	
Carbon disulfide	9.2		"	10.0		92.1	68-146		6.50	30	
Carbon tetrachloride	11		"	10.0		112	77-141		6.52	30	
Chlorobenzene	11		"	10.0		109	88-120		3.54	30	
Chloroethane	12		"	10.0		115	65-136		8.14	30	
Chloroform	11		"	10.0		112	82-128		4.46	30	
Chloromethane	8.3		"	10.0		82.6	43-155		18.8	30	
cis-1,2-Dichloroethylene	11		"	10.0		113	83-129		3.33	30	
cis-1,3-Dichloropropylene	11		"	10.0		106	80-131		4.94	30	
Cyclohexane	5.1		"	10.0		51.2	63-149	Low Bias	4.80	30	
Dibromochloromethane	11		"	10.0		110	80-130		3.53	30	
Dibromomethane	11		"	10.0		108	72-134		3.21	30	
Dichlorodifluoromethane	12		"	10.0		120	44-144		6.38	30	
Ethyl Benzene	12		"	10.0		117	80-131		6.91	30	
Hexachlorobutadiene	8.0		"	10.0		79.6	67-146		13.3	30	
Isopropylbenzene	11		"	10.0		107	76-140		0.836	30	
Methyl acetate	11		"	10.0		112	51-139		3.50	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		113	76-135		3.05	30	
Methylcyclohexane	11		"	10.0		110	72-143		7.45	30	
Methylene chloride	12		"	10.0		120	55-137		4.16	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

Batch BJ91076 - EPA 5030B

LCS Dup (BJ91076-BSD1)

Prepared & Analyzed: 10/22/2019

n-Butylbenzene	12		ug/L	10.0		124	79-132			2.94	30		
n-Propylbenzene	11		"	10.0		111	78-133			0.00	30		
o-Xylene	11		"	10.0		112	78-130			5.24	30		
p- & m- Xylenes	23		"	20.0		117	77-133			6.11	30		
p-Isopropyltoluene	11		"	10.0		114	81-136			2.41	30		
sec-Butylbenzene	12		"	10.0		117	79-137			2.51	30		
Styrene	11		"	10.0		113	67-132			5.83	30		
tert-Butyl alcohol (TBA)	51		"	50.0		101	25-162			3.71	30		
tert-Butylbenzene	9.7		"	10.0		97.0	77-138			1.98	30		
Tetrachloroethylene	9.6		"	10.0		96.4	82-131			6.76	30		
Toluene	11		"	10.0		110	80-127			4.58	30		
trans-1,2-Dichloroethylene	11		"	10.0		110	80-132			4.86	30		
trans-1,3-Dichloropropylene	11		"	10.0		108	78-131			5.14	30		
trans-1,4-dichloro-2-butene	11		"	10.0		108	63-141			3.46	30		
Trichloroethylene	11		"	10.0		106	82-128			5.70	30		
Trichlorofluoromethane	12		"	10.0		118	67-139			2.67	30		
Vinyl Chloride	9.5		"	10.0		95.1	58-145			8.44	30		
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>69-130</i>						
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.95</i>		<i>"</i>	<i>10.0</i>		<i>99.5</i>	<i>81-117</i>						
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.75</i>		<i>"</i>	<i>10.0</i>		<i>97.5</i>	<i>79-122</i>						



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91322 - SPE Ext-PFAS-EPA 537.1M

Blank (BJ91322-BLK1)

Prepared & Analyzed: 10/22/2019

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	ng/L								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
N-EtFOSAA	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTTrDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Surrogate: M3PFBS	42.3		"	74.3		57.0	25-150				
Surrogate: M5PFHxA	43.3		"	80.0		54.1	25-150				
Surrogate: M4PFHpA	48.5		"	80.0		60.6	25-150				
Surrogate: M3PFHxS	43.4		"	75.7		57.3	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	45.7		"	80.0		57.1	25-150				
Surrogate: M6PFDA	44.3		"	80.0		55.4	25-150				
Surrogate: M7PFUdA	41.4		"	80.0		51.8	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	33.1		"	80.0		41.3	25-150				
Surrogate: M2PFTeDA	23.1		"	80.0		28.9	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	47.3		"	80.0		59.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.1		"	76.6		57.6	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	45.6		"	80.0		57.1	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	43.0		"	80.0		53.8	10-150				
Surrogate: d3-N-MeFOSAA	45.6		"	80.0		56.9	25-150				
Surrogate: d5-N-EtFOSAA	46.4		"	80.0		58.0	25-150				
Surrogate: M2-6:2 FTS	51.6		"	75.9		68.0	25-150				
Surrogate: M2-8:2 FTS	60.1		"	76.6		78.5	25-150				
Surrogate: M9PFNA	45.2		"	80.0		56.6	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91322 - SPE Ext-PFAS-EPA 537.1M											
LCS (BJ91322-BS1)											
Prepared & Analyzed: 10/22/2019											
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	79.1	2.00	ng/L	76.8		103	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	74.9	5.00	"	76.0		98.6	50-130				
N-EtFOSAA	79.5	2.00	"	80.0		99.4	50-130				
N-MeFOSAA	78.9	2.00	"	80.0		98.6	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	66.7	2.00	"	77.2		86.4	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	82.6	2.00	"	79.6		104	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	78.1	2.00	"	80.0		97.7	50-130				
Perfluorobutanesulfonic acid (PFBS)	74.7	2.00	"	70.8		105	50-130				
Perfluorodecanoic acid (PFDA)	76.6	2.00	"	80.0		95.7	50-130				
Perfluorododecanoic acid (PFDoA)	76.3	2.00	"	80.0		95.4	50-130				
Perfluoroheptanoic acid (PFHpA)	71.3	2.00	"	80.0		89.1	50-130				
Perfluorohexanesulfonic acid (PFHxS)	62.4	2.00	"	59.2		105	50-130				
Perfluorohexanoic acid (PFHxA)	80.2	2.00	"	80.0		100	50-130				
Perfluoro-n-butanoic acid (PFBA)	80.9	2.00	"	80.0		101	50-130				
Perfluorononanoic acid (PFNA)	76.3	2.00	"	76.8		99.3	50-130				
Perfluorooctanesulfonic acid (PFOS)	59.8	2.00	"	58.4		102	50-130				
Perfluorooctanoic acid (PFOA)	81.0	2.00	"	80.0		101	50-130				
Perfluoropentanoic acid (PFPeA)	79.2	2.00	"	80.0		99.0	50-130				
Perfluorotetradecanoic acid (PFTA)	82.2	2.00	"	80.0		103	50-130				
Perfluorotridecanoic acid (PFTTrDA)	61.3	2.00	"	80.0		76.7	50-130				
Perfluoroundecanoic acid (PFUnA)	76.6	2.00	"	80.0		95.7	50-130				
Surrogate: M3PFBS	52.2		"	74.3		70.3	25-150				
Surrogate: M5PFHxA	53.5		"	80.0		66.9	25-150				
Surrogate: M4PFHpA	60.1		"	80.0		75.1	25-150				
Surrogate: M3PFHxS	51.7		"	75.7		68.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	50.8		"	80.0		63.4	25-150				
Surrogate: M6PFDA	44.3		"	80.0		55.4	25-150				
Surrogate: M7PFUdA	41.9		"	80.0		52.4	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	38.4		"	80.0		47.9	25-150				
Surrogate: M2PFTeDA	27.9		"	80.0		34.9	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	59.1		"	80.0		73.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	50.7		"	76.6		66.2	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	55.9		"	80.0		69.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	51.5		"	80.0		64.4	10-150				
Surrogate: d3-N-MeFOSAA	55.5		"	80.0		69.3	25-150				
Surrogate: d5-N-EtFOSAA	53.4		"	80.0		66.7	25-150				
Surrogate: M2-6:2 FTS	47.9		"	75.9		63.0	25-150				
Surrogate: M2-8:2 FTS	41.1		"	76.6		53.6	25-150				
Surrogate: M9PFNA	54.2		"	80.0		67.8	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91322 - SPE Ext-PFAS-EPA 537.1M											
Duplicate (BJ91322-DUP1)		*Source sample: 19J0845-04 (UW-1)				Prepared & Analyzed: 10/22/2019					
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	11.9	10.0	ng/L		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	25.0	"		ND					30	
N-EtFOSAA	ND	10.0	"		ND					30	
N-MeFOSAA	ND	10.0	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	10.0	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	11.7	10.0	"		10.6				10.3	30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	10.0	"		ND					30	
Perfluorobutanesulfonic acid (PFBS)	ND	10.0	"		ND					30	
Perfluorodecanoic acid (PFDA)	ND	10.0	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	10.0	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	44.3	10.0	"		45.8				3.26	30	
Perfluorohexanesulfonic acid (PFHxS)	120	10.0	"		126				4.99	30	
Perfluorohexanoic acid (PFHxA)	38.2	10.0	"		39.1				2.18	30	
Perfluoro-n-butanoic acid (PFBA)	14.5	10.0	"		15.3				4.92	30	
Perfluorononanoic acid (PFNA)	ND	10.0	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	945	10.0	"		900				4.87	30	
Perfluorooctanoic acid (PFOA)	39.0	10.0	"		40.1				2.80	30	
Perfluoropentanoic acid (PFPeA)	34.9	10.0	"		34.6				0.865	30	
Perfluorotetradecanoic acid (PFTA)	ND	10.0	"		ND					30	
Perfluorotridecanoic acid (PFTTrDA)	ND	10.0	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	10.0	"		ND					30	
Surrogate: M3PFBS	239		"	372		64.3	25-150				
Surrogate: M5PFHxA	257		"	400		64.3	25-150				
Surrogate: M4PFHpA	283		"	400		70.9	25-150				
Surrogate: M3PFHxS	242		"	378		64.0	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	265		"	400		66.1	25-150				
Surrogate: M6PFDA	262		"	400		65.6	25-150				
Surrogate: M7PFUdA	228		"	400		56.9	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	198		"	400		49.5	25-150				
Surrogate: M2PFTeDA	149		"	400		37.2	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	266		"	400		66.5	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	238		"	383		62.1	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	257		"	400		64.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	238		"	400		59.4	10-150				
Surrogate: d3-N-MeFOSAA	251		"	400		62.7	25-150				
Surrogate: d5-N-EtFOSAA	255		"	400		63.9	25-150				
Surrogate: M2-6:2 FTS	287		"	380		75.6	25-150				
Surrogate: M2-8:2 FTS	320		"	383		83.4	25-150				
Surrogate: M9PFNA	270		"	400		67.4	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BJ91322 - SPE Ext-PFAS-EPA 537.1M												
Matrix Spike (BJ91322-MS1)		*Source sample: 19J0845-03 (FMW-13R)						Prepared & Analyzed: 10/22/2019				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	422	10.0	ng/L	384	ND	110	25-150					
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1110	25.0	"	380	742	96.3	25-150					
N-EtFOSAA	416	10.0	"	400	ND	104	25-150					
N-MeFOSAA	399	10.0	"	400	ND	99.7	25-150					
Perfluoro-1-decanesulfonic acid (PFDS)	396	10.0	"	386	ND	103	25-150					
Perfluoro-1-heptanesulfonic acid (PFHpS)	508	10.0	"	398	28.8	120	25-150					
Perfluoro-1-octanesulfonamide (FOSA)	398	10.0	"	400	ND	99.5	25-150					
Perfluorobutanesulfonic acid (PFBS)	430	10.0	"	354	41.4	110	25-150					
Perfluorodecanoic acid (PFDA)	399	10.0	"	400	ND	99.7	25-150					
Perfluorododecanoic acid (PFDoA)	403	10.0	"	400	ND	101	25-150					
Perfluoroheptanoic acid (PFHpA)	629	10.0	"	400	253	94.1	25-150					
Perfluorohexanesulfonic acid (PFHxS)	1340	10.0	"	296	959	130	25-150					
Perfluorohexanoic acid (PFHxA)	845	10.0	"	400	448	99.3	25-150					
Perfluoro-n-butanoic acid (PFBA)	676	10.0	"	400	251	106	25-150					
Perfluorononanoic acid (PFNA)	539	10.0	"	384	111	112	25-150					
Perfluorooctanoic acid (PFOA)	614	10.0	"	400	167	112	25-150					
Perfluoropentanoic acid (PFPeA)	1320	10.0	"	400	913	102	25-150					
Perfluorotetradecanoic acid (PFTA)	452	10.0	"	400	ND	113	25-150					
Perfluorotridecanoic acid (PFTrDA)	350	10.0	"	400	ND	87.4	25-150					
Perfluoroundecanoic acid (PFUnA)	402	10.0	"	400	ND	100	25-150					
Surrogate: M3PFBS	231		"	372		62.2	25-150					
Surrogate: M5PFHxA	234		"	400		58.5	25-150					
Surrogate: M4PFHpA	263		"	400		65.7	25-150					
Surrogate: M3PFHxS	216		"	378		57.0	25-150					
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	239		"	400		59.8	25-150					
Surrogate: M6PFDA	236		"	400		59.1	25-150					
Surrogate: M7PFUdA	214		"	400		53.5	25-150					
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	190		"	400		47.5	25-150					
Surrogate: M2PFTeDA	115		"	400		28.8	10-150					
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	255		"	400		63.7	25-150					
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	235		"	400		58.7	25-150					
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	202		"	400		50.5	10-150					
Surrogate: d3-N-MeFOSAA	243		"	400		60.8	25-150					
Surrogate: d5-N-EtFOSAA	227		"	400		56.8	25-150					
Surrogate: M2-6:2 FTS	270		"	380		71.3	25-150					
Surrogate: M2-8:2 FTS	245		"	383		63.9	25-150					
Surrogate: M9PFNA	243		"	400		60.7	25-150					



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result		Limits		Limit			

Batch BJ91322 - SPE Ext-PFAS-EPA 537.1M

Matrix Spike (BJ91322-MS2)	*Source sample: 19J0845-03 (FMW-13R)						Prepared: 10/22/2019 Analyzed: 10/23/2019						
Perfluorooctanesulfonic acid (PFOS)	2080	20.0	ng/L	292	1670	143	25-150						
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	228		"	383		59.5	25-150						



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19J0845-01	FMW-8	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0845-03	FMW-13R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0845-05	FMW-15	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0845-06	FMW-16	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0845-07	MW-15S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0845-08	MW-16	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0845-11	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0845-12	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

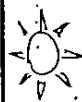


Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.





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 Stratford, CT 06615
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 www.yorklab.com

YORK
 ANALYTICAL LABORATORIES, INC.

Field Chain-of-Custody Record

YORK Project No.
 1950845

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 2

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: WSP USA	Company:	Address:	Address:	Company:	Company:	Address:	Address:	RUSH - Next Day	RUSH - Next Day
Address: 4 Westchester Park Dr	Address:	Address:	Address:	Address:	Address:	Address:	Address:	RUSH - Two Day	RUSH - Two Day
Phone: White Plains, NY 10607	Phone:	Phone:	Phone:	Phone:	Phone:	Phone:	Phone:	RUSH - Three Day	RUSH - Three Day
Phone: 914 644 5711	Phone:	Phone:	Phone:	Phone:	Phone:	Phone:	Phone:	RUSH - Four Day	RUSH - Four Day
Contact: John Benavente	Contact:	Contact:	Contact:	Contact:	Contact:	Contact:	Contact:	Standard (5-7 Day)	Standard (5-7 Day)
E-mail: JOHN.BENAVENTE@WSP.COM	E-mail:	E-mail:	E-mail:	E-mail:	E-mail:	E-mail:	E-mail:		

YOUR Project Name: Westchester County Airport (WCA)
 YOUR PO#: 31402218.000

Report / EDD Type (circle selections):
 Summary Report
 QA Report
 NY ASP A Package
 NY ASP B Package

Matrix Codes:
 S - soil / solid
 GW - groundwater
 DW - drinking water
 WW - wastewater
 O - Oil / Other

Samples Collected by: (print your name above and sign below)

Sample Identification	Matrix	Date/Time Sampled	Analysis Requested	Container Description
FMW-8	GW	10/17/19 0950	EPA 537 8260 Full	2 Plastics, 3 vials
FMW-3		1100	X	
FMW-13R		1080	X	
11W-1		1100	X	
FMW-15		1145	X	
FMW-16		1210	X	
MW-15S		1420	X	
MW-16		1440	X	
MW-17S		1400	X	

Comments:

Preservation: (check all that apply)
 HCl MeOH HNO3 H2SO4 NaOH ZnAc Ascorbic Acid Other:

Samples Relinquished by / Company: [Signature] 10/17/19 1530
 Samples Received by / Company: [Signature] 10-18-19 7:40

Samples Relinquished by / Company: [Signature]
 Samples Received by / Company: [Signature]

Samples Relinquished by / Company: [Signature]
 Samples Received by / Company: [Signature]

Samples Relinquished by / Company: [Signature]
 Samples Received by / Company: [Signature]

Temp. Received at Lab: 2.8 Degrees C



York Analytical Laboratories, Inc.
 120 Research Drive
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 www.yorklab.com



Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.

1950845

Page 2 of 2

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: WSP USA	Company:	Address:	Address:	Company:	Company:	Address:	Address:	RUSH - Next Day	RUSH - Next Day
Address: 4 Westchester Pkwy White Plains, NY 10607	Address:	Phone: 914 694 5711	Phone: SAME	Phone: SAME	Phone: SAME	Address:	Address:	RUSH - Two Day	RUSH - Two Day
Phone: 914 694 5711	Phone: SAME	Contact: SAME	Contact: SAME	Contact: SAME	Contact: SAME	Address:	Address:	RUSH - Three Day	RUSH - Three Day
Contact: John Bentagna	Contact: SAME	E-mail: SAME	E-mail: SAME	E-mail: SAME	E-mail: SAME	Address:	Address:	RUSH - Four Day	RUSH - Four Day
E-mail: John.Bentagna@wsp.com	E-mail: SAME	YOUR Project Name Westchester County Airport (WCA)		YOUR Project Number		YOUR PO#: 31402218.000		Standard (5-7 Day)	
<p>Please print clearly and legibly. An information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.</p> <p>Samples Collected by: (print your name above and sign below) Mike Reiff</p>									
Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.		Compared to the following Regulation(s): (please fill in)	
S - soil / solid	New York	Summary Report	CT RCP	Standard Excel EDD	YORK Reg. Comp.				
GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EQUIS (Standard)					
DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQUIS					
WW - wastewater	Pennsylvania	NY ASP B Package	NJDKQP	NJDEP SRP HazSite					
O - Oil / Other	Other			Other:					
Sample Matrix		Date/Time Sampled		Analysis Requested		Container Description			
GW	10/17/19 1330	EPA 537 8260 Full	1,4 Dioxane	6lycols			2 Plastics		
DI	1500	X	X	X			1 Plastic, 3 Boas		
↓		X	X	X			2 Boas		
<p>Comments:</p> <p>HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___</p> <p>Preservation: (check all that apply)</p> <p>Date/Time: 10-18-19 7:40 Samples Relinquished by / Company: <i>Chic</i></p> <p>Date/Time: 10-18-19 1455 Samples Received by / Company: <i>Chic</i></p> <p>Date/Time: 10-17-19 1530 Samples Relinquished by / Company: <i>Chic</i></p> <p>Date/Time: 10-17-19 1530 Samples Received by / Company: <i>Chic</i></p> <p>Date/Time: 10-18-19 1455 Samples Relinquished by / Company: <i>Chic</i></p> <p>Date/Time: 10-18-19 1455 Samples Received by / Company: <i>Chic</i></p>									
Special Instruction		Field Filtered Lab to Filter		Date/Time		Date/Time		Temp. Received at Lab	
				10-18-19 1455		10-18-19 1455		2.8	



Technical Report

prepared for:

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Report Date: 10/29/2019
Client Project ID: 31402218.000 Westchester County Airport (WCA)
York Project (SDG) No.: 19J0928

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 21, 2019 and listed below. The project was identified as your project: **31402218.000 Westchester County Airport (WCA)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19J0928-01	FMW-37	Water	10/18/2019	10/21/2019
19J0928-02	DPWMW-3	Water	10/18/2019	10/21/2019
19J0928-03	FMW-17	Water	10/18/2019	10/21/2019
19J0928-04	FMW-27	Water	10/18/2019	10/21/2019
19J0928-05	XDDMW-7S	Water	10/18/2019	10/21/2019
19J0928-06	MW-7D (XDDMW-7R)	Water	10/18/2019	10/21/2019
19J0928-07	MW-3 (XDDMW-3)	Water	10/18/2019	10/21/2019
19J0928-08	MW-4 (PMMW-1)	Water	10/18/2019	10/21/2019
19J0928-09	MW-10S	Water	10/18/2019	10/21/2019
19J0928-10	MW-10D	Water	10/18/2019	10/21/2019
19J0928-11	XDDMW-13	Water	10/18/2019	10/21/2019
19J0928-12	Field Blank	Water	10/18/2019	10/21/2019
19J0928-13	Trip Blank	Water	10/18/2019	10/21/2019

General Notes for York Project (SDG) No.: 19J0928

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/29/2019





Sample Information

Client Sample ID: FMW-37

York Sample ID: 19J0928-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0928	31402218.000 Westchester County Airport (WCA)	Water	October 18, 2019 10:25 am	10/21/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	84.3		ng/L	62.5	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	46.5		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	49.3		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	83.8		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	741		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	185		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	73.5		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
375-95-1	* Perfluorononanoic acid (PFNA)	39.2		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	2950		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	90.7		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	192		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 17:36	KT



Sample Information

Client Sample ID: FMW-37

York Sample ID: 19J0928-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 10:25 am

10/21/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result		Acceptance Range						
	Surrogate: M3PFBS	55.1 %								
	Surrogate: M5PFHxA	51.0 %								
	Surrogate: M4PFHpA	66.0 %								
	Surrogate: M3PFHxS	53.1 %								
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	54.2 %								
	Surrogate: M6PFDA	54.6 %								
	Surrogate: M7PFUDA	52.9 %								
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	44.9 %	PF-CC V-L							
	Surrogate: M2PFTeDA	35.4 %								
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	51.4 %								
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	52.6 %								
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	52.4 %								
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	42.7 %								
	Surrogate: d3-N-MeFOSAA	54.3 %								
	Surrogate: d5-N-EtFOSAA	53.0 %								
	Surrogate: M2-6:2 FTS	68.2 %								
	Surrogate: M2-8:2 FTS	68.8 %								
	Surrogate: M9PFNA	58.9 %								

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-21-1	* Ethylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 18:58	RB
57-55-6	* Propylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 18:58	RB
Surrogate Recoveries		Result		Acceptance Range						
110-63-4	Surrogate: 1,4-Butanediol	92.6 %								



Sample Information

Client Sample ID: DPWMW-3

York Sample ID: 19J0928-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 11:20 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	80	80	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
78-93-3	2-Butanone	2.8	CCV-E, J, B	ug/L	0.40	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
108-10-1	4-Methyl-2-pentanone	1.3		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ



Sample Information

Client Sample ID: DPWMW-3

York Sample ID: 19J0928-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 11:20 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	6.1	CCV-E	ug/L	2.0	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
107-02-8	Acrolein	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
71-43-2	Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-25-2	Bromoform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
74-83-9	Bromomethane	0.40	CCV-E, J	ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-15-0	Carbon disulfide	1.7		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-00-3	Chloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
67-66-3	Chloroform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
74-87-3	Chloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ



Sample Information

Client Sample ID: DPWMW-3

York Sample ID: 19J0928-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 11:20 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-09-2	Methylene chloride	ND		ug/L	2.0	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
95-47-6	o-Xylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	2.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
100-42-5	Styrene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	1.0	2.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
108-88-3	Toluene	200		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	1.2	3.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 18:51	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	123 %	69-130								



Sample Information

Client Sample ID: DPWMW-3

York Sample ID: 19J0928-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 11:20 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: SURR: Toluene-d8	96.5 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	91.7 %			79-122						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.0	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	6.21		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT



Sample Information

Client Sample ID: DPWMW-3

York Sample ID: 19J0928-02

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 11:20 am	<u>Date Received</u> 10/21/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 17:41	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		49.2 %	25-150							
Surrogate: M5PFHxA		47.3 %	25-150							
Surrogate: M4PFHpA		59.3 %	25-150							
Surrogate: M3PFHxS		48.9 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		46.5 %	25-150							
Surrogate: M6PFDA		45.9 %	25-150							
Surrogate: M7PFUdA		39.6 %	25-150							
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)		37.0 %	25-150							
Surrogate: M2PFTeDA		29.1 %	10-150							
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)		49.7 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		47.5 %	25-150							
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)		48.0 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)		39.3 %	10-150							
Surrogate: d3-N-MeFOSAA		63.3 %	25-150							
Surrogate: d5-N-EtFOSAA		66.6 %	25-150							
Surrogate: M2-6:2 FTS		112 %	25-150							
Surrogate: M2-8:2 FTS		139 %	25-150							
Surrogate: M9PFNA		49.3 %	25-150							

Sample Information

Client Sample ID: FMW-17

York Sample ID: 19J0928-03

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 11:35 am	<u>Date Received</u> 10/21/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: FMW-17

York Sample ID: 19J0928-03

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 11:35 am	<u>Date Received</u> 10/21/2019
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Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	28.6		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	62.5	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	25.5		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	25.7		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	42.8		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	325		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	77.7		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	36.4		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	3080		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	35.7		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	75.5		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:29	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	51.7 %	25-150
Surrogate: M5PFHxA	49.6 %	25-150



Sample Information

Client Sample ID: FMW-17			York Sample ID: 19J0928-03
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>
19J0928	31402218.000 Westchester County Airport (WCA)	Water	October 18, 2019 11:35 am
			<u>Date Received</u> 10/21/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M4PFHpA	60.6 %			25-150					
	Surrogate: M3PFHxS	52.7 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	54.3 %			25-150					
	Surrogate: M6PFDA	51.6 %			25-150					
	Surrogate: M7PFUdA	52.1 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	53.1 %	PF-CC V-L		25-150					
	Surrogate: M2PFTeDA	42.9 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	54.3 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	51.8 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	49.8 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	46.4 %			10-150					
	Surrogate: d3-N-MeFOSAA	63.1 %			25-150					
	Surrogate: d5-N-EtFOSAA	62.3 %			25-150					
	Surrogate: M2-6:2 FTS	124 %			25-150					
	Surrogate: M2-8:2 FTS	118 %			25-150					
	Surrogate: M9PFNA	54.3 %			25-150					

Sample Information

Client Sample ID: FMW-27			York Sample ID: 19J0928-04
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>
19J0928	31402218.000 Westchester County Airport (WCA)	Water	October 18, 2019 11:55 am
			<u>Date Received</u> 10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ



Sample Information

Client Sample ID: FMW-27

York Sample ID: 19J0928-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 11:55 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
95-63-6	1,2,4-Trimethylbenzene	0.46	J	ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	80	80	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
78-93-3	2-Butanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
67-64-1	Acetone	ND		ug/L	2.0	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
107-02-8	Acrolein	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ



Sample Information

Client Sample ID: FMW-27

York Sample ID: 19J0928-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 11:55 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-25-2	Bromoform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
74-83-9	Bromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-00-3	Chloroethane	2.9		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
67-66-3	Chloroform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
74-87-3	Chloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
100-41-4	Ethyl Benzene	23		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	0.46	J	ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ



Sample Information

Client Sample ID: FMW-27

York Sample ID: 19J0928-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 11:55 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	2.0	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
95-47-6	o-Xylene	43		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
179601-23-1	p- & m- Xylenes	110		ug/L	1.0	2.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
100-42-5	Styrene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	1.0	2.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
108-88-3	Toluene	42		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 15:59	LLJ
1330-20-7	Xylenes, Total	150		ug/L	1.2	3.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 15:59	LLJ

Surrogate Recoveries	Result	Acceptance Range
17060-07-0 Surrogate: SURRE: 1,2-Dichloroethane-d4	101 %	69-130
2037-26-5 Surrogate: SURRE: Toluene-d8	97.3 %	81-117
460-00-4 Surrogate: SURRE: p-Bromofluorobenzene	95.7 %	79-122



Sample Information

Client Sample ID: FMW-27

York Sample ID: 19J0928-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 11:55 am

10/21/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	96.0		ng/L	62.5	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	27.9		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	33.3		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	72.4		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	434		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	131		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	54.2		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
375-95-1	* Perfluorononanoic acid (PFNA)	28.3		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	2400		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	87.5		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	175		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 19:56	KT

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: FMW-27			York Sample ID: 19J0928-04
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>
19J0928	31402218.000 Westchester County Airport (WCA)	Water	October 18, 2019 11:55 am
			<u>Date Received</u> 10/21/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFBS	56.7 %			25-150					
	Surrogate: M5PFHxA	55.4 %			25-150					
	Surrogate: M4PFHpA	70.3 %			25-150					
	Surrogate: M3PFHxS	56.9 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	56.3 %			25-150					
	Surrogate: M6PFDA	61.1 %			25-150					
	Surrogate: M7PFUdA	52.7 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	47.5 %	PF-CC V-L		25-150					
	Surrogate: M2PFTeDA	38.7 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	57.9 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	55.9 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	55.7 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	51.0 %			10-150					
	Surrogate: d3-N-MeFOSAA	59.1 %			25-150					
	Surrogate: d5-N-EtFOSAA	58.4 %			25-150					
	Surrogate: M2-6:2 FTS	89.0 %			25-150					
	Surrogate: M2-8:2 FTS	85.4 %			25-150					
	Surrogate: M9PFNA	62.5 %			25-150					

Sample Information

Client Sample ID: XDDMW-7S			York Sample ID: 19J0928-05
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>
19J0928	31402218.000 Westchester County Airport (WCA)	Water	October 18, 2019 1:10 pm
			<u>Date Received</u> 10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
71-55-6	1,1,1-Trichloroethane	3.9		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ



Sample Information

Client Sample ID: XDDMW-7S

York Sample ID: 19J0928-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 1:10 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-34-3	1,1-Dichloroethane	64		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-35-4	1,1-Dichloroethylene	16		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ



Sample Information

Client Sample ID: XDDMW-7S

York Sample ID: 19J0928-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 1:10 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
156-59-2	cis-1,2-Dichloroethylene	37		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
100-41-4	Ethyl Benzene	5.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ



Sample Information

Client Sample ID: XDDMW-7S

York Sample ID: 19J0928-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 1:10 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
95-47-6	o-Xylene	9.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
179601-23-1	p- & m- Xylenes	23		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
127-18-4	Tetrachloroethylene	17	QL-02	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
108-88-3	Toluene	10		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
156-60-5	trans-1,2-Dichloroethylene	0.44	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
79-01-6	Trichloroethylene	14		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
75-01-4	Vinyl Chloride	6.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:25	LLJ
1330-20-7	Xylenes, Total	33		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 16:25	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	97.7 %	69-130
2037-26-5	Surrogate: SURRE: Toluene-d8	97.0 %	81-117
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	95.9 %	79-122



Sample Information

Client Sample ID: XDDMW-7S

York Sample ID: 19J0928-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 1:10 pm

10/21/2019

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	32.4	B	ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/23/2019 08:43	10/23/2019 22:22	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	84.0 %	50-130							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	7.35		ng/L	5.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	2.09		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	8.73		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	15.5		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	45.2		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	30.4		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	22.3		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
375-95-1	* Perfluorononanoic acid (PFNA)	19.3		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	109		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT



Sample Information

Client Sample ID: XDDMW-7S

York Sample ID: 19J0928-05

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 1:10 pm	<u>Date Received</u> 10/21/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	* Perfluorooctanoic acid (PFOA)	25.2		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	40.2		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 20:50	KT
Surrogate Recoveries		Result		Acceptance Range						
Surrogate: M3PFBS		42.5 %		25-150						
Surrogate: M5PFHxA		43.6 %		25-150						
Surrogate: M4PFHpA		55.8 %		25-150						
Surrogate: M3PFHxS		44.9 %		25-150						
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		44.7 %		25-150						
Surrogate: M6PFDA		49.5 %		25-150						
Surrogate: M7PFUdA		38.8 %		25-150						
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)		36.7 %	PF-CC V-L	25-150						
Surrogate: M2PFTeDA		19.6 %		10-150						
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)		50.5 %		25-150						
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		43.0 %		25-150						
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)		42.5 %		25-150						
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)		32.5 %		10-150						
Surrogate: d3-N-MeFOSAA		48.4 %		25-150						
Surrogate: d5-N-EtFOSAA		48.6 %		25-150						
Surrogate: M2-6:2 FTS		78.0 %		25-150						
Surrogate: M2-8:2 FTS		107 %		25-150						
Surrogate: M9PFNA		46.6 %		25-150						

Sample Information

Client Sample ID: MW-7D (XDDMW-7R)

York Sample ID: 19J0928-06

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 1:30 pm	<u>Date Received</u> 10/21/2019
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Sample Information

Client Sample ID: MW-7D (XDDMW-7R)

York Sample ID: 19J0928-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 1:30 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-34-3	1,1-Dichloroethane	40		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-35-4	1,1-Dichloroethylene	3.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ



Sample Information

Client Sample ID: MW-7D (XDDMW-7R)

York Sample ID: 19J0928-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 1:30 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
156-59-2	cis-1,2-Dichloroethylene	5.7		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
100-41-4	Ethyl Benzene	3.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ



Sample Information

Client Sample ID: MW-7D (XDDMW-7R)

York Sample ID: 19J0928-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 1:30 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
95-47-6	o-Xylene	5.6		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
179601-23-1	p- & m- Xylenes	14		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
127-18-4	Tetrachloroethylene	1.2	QL-02	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
108-88-3	Toluene	6.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
79-01-6	Trichloroethylene	7.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
1330-20-7	Xylenes, Total	19		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 16:51	LLJ
	Surrogate Recoveries	Result						Acceptance Range			



Sample Information

Client Sample ID: MW-7D (XDDMW-7R)

York Sample ID: 19J0928-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 1:30 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	97.4 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	97.4 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	93.9 %			79-122						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	3.22		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	3.47		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	15.5		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	9.15		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	4.72		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
375-95-1	* Perfluorononanoic acid (PFNA)	4.43		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	20.7		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT



Sample Information

Client Sample ID: MW-7D (XDDMW-7R)

York Sample ID: 19J0928-06

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 1:30 pm	<u>Date Received</u> 10/21/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	* Perfluorooctanoic acid (PFOA)	7.31		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	12.7		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 21:16	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		50.1 %	25-150							
Surrogate: M5PFHxA		49.3 %	25-150							
Surrogate: M4PFHpA		63.5 %	25-150							
Surrogate: M3PFHxS		49.8 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		54.5 %	25-150							
Surrogate: M6PFDA		51.5 %	25-150							
Surrogate: M7PFUdA		48.6 %	25-150							
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)		49.2 %	PF-CC V-L	25-150						
Surrogate: M2PFTeDA		37.7 %	10-150							
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)		49.7 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		48.8 %	25-150							
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)		49.6 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)		45.9 %	10-150							
Surrogate: d3-N-MeFOSAA		56.7 %	25-150							
Surrogate: d5-N-EtFOSAA		62.9 %	25-150							
Surrogate: M2-6:2 FTS		77.6 %	25-150							
Surrogate: M2-8:2 FTS		95.7 %	25-150							
Surrogate: M9PFNA		51.7 %	25-150							

Sample Information

Client Sample ID: MW-3 (XDDMW-3)

York Sample ID: 19J0928-07

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 3:10 pm	<u>Date Received</u> 10/21/2019
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Sample Information

Client Sample ID: MW-3 (XDDMW-3)

York Sample ID: 19J0928-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 3:10 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	80	80	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
78-93-3	2-Butanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ



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31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 3:10 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	2.0	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
107-02-8	Acrolein	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
71-43-2	Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-25-2	Bromoform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
74-83-9	Bromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-00-3	Chloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
67-66-3	Chloroform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
74-87-3	Chloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
100-41-4	Ethyl Benzene	4.8		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ



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Water

October 18, 2019 3:10 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-09-2	Methylene chloride	ND		ug/L	2.0	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
95-47-6	o-Xylene	7.7		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
179601-23-1	p- & m- Xylenes	19		ug/L	1.0	2.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
100-42-5	Styrene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	1.0	2.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
108-88-3	Toluene	10		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
1330-20-7	Xylenes, Total	27		ug/L	1.2	3.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 17:18	LLJ
	Surrogate Recoveries	Result			Acceptance Range						



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31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 3:10 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	98.5 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	97.5 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	94.7 %			79-122						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.0	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	4.88		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	7.44		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	6.24		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	19.8		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	9.54		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT



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York Sample ID: 19J0928-07

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 3:10 pm	<u>Date Received</u> 10/21/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	* Perfluorooctanoic acid (PFOA)	5.82		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	23.2		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 18:34	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	41.8 %	25-150
Surrogate: M5PFHxA	37.3 %	25-150
Surrogate: M4PFHpA	50.8 %	25-150
Surrogate: M3PFHxS	45.9 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	46.8 %	25-150
Surrogate: M6PFDA	46.8 %	25-150
Surrogate: M7PFUdA	37.5 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	32.5 %	25-150
Surrogate: M2PFTeDA	23.8 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	48.1 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	47.0 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	32.6 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	14.2 %	10-150
Surrogate: d3-N-MeFOSAA	44.2 %	25-150
Surrogate: d5-N-EtFOSAA	43.8 %	25-150
Surrogate: M2-6:2 FTS	99.8 %	25-150
Surrogate: M2-8:2 FTS	72.4 %	25-150
Surrogate: M9PFNA	45.3 %	25-150

Sample Information

Client Sample ID: MW-4 (PMMW-1)

York Sample ID: 19J0928-08

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 3:20 pm	<u>Date Received</u> 10/21/2019
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Sample Information

Client Sample ID: MW-4 (PMMW-1)

York Sample ID: 19J0928-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 3:20 pm

10/21/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.0	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	5.88		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	7.25		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	20.5		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	26.0		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/24/2019 11:11	10/28/2019 19:28	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		40.5 %	25-150							



Sample Information

Client Sample ID: MW-4 (PMMW-1)

York Sample ID: 19J0928-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0928	31402218.000 Westchester County Airport (WCA)	Water	October 18, 2019 3:20 pm	10/21/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	28.5 %			25-150					
	Surrogate: M4PFHpA	44.4 %			25-150					
	Surrogate: M3PFHxS	49.4 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	48.9 %			25-150					
	Surrogate: M6PFDA	43.8 %			25-150					
	Surrogate: M7PFUdA	35.6 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	27.1 %			25-150					
	Surrogate: M2PFTeDA	13.5 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	29.0 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	49.5 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	17.6 %	PFSu-L		25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	8.11 %	PFSu-L		10-150					
	Surrogate: d3-N-MeFOSAA	44.2 %			25-150					
	Surrogate: d5-N-EtFOSAA	38.9 %			25-150					
	Surrogate: M2-6:2 FTS	133 %			25-150					
	Surrogate: M2-8:2 FTS	102 %			25-150					
	Surrogate: M9PFNA	48.1 %			25-150					

Sample Information

Client Sample ID: MW-10S

York Sample ID: 19J0928-09

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0928	31402218.000 Westchester County Airport (WCA)	Water	October 18, 2019 2:45 pm	10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ



Sample Information

Client Sample ID: MW-10S

York Sample ID: 19J0928-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 2:45 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-34-3	1,1-Dichloroethane	14		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-35-4	1,1-Dichloroethylene	1.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ



Sample Information

Client Sample ID: MW-10S

York Sample ID: 19J0928-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 2:45 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
156-59-2	cis-1,2-Dichloroethylene	4.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
100-41-4	Ethyl Benzene	1.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ



Sample Information

Client Sample ID: MW-10S

York Sample ID: 19J0928-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 2:45 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
95-47-6	o-Xylene	2.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
179601-23-1	p- & m- Xylenes	6.9		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
127-18-4	Tetrachloroethylene	1.2	QL-02	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
108-88-3	Toluene	3.9		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
156-60-5	trans-1,2-Dichloroethylene	0.24	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
79-01-6	Trichloroethylene	1.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
75-01-4	Vinyl Chloride	1.7		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
1330-20-7	Xylenes, Total	9.7		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 17:44	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	96.3 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	97.3 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	94.6 %	79-122								



Sample Information

Client Sample ID: MW-10S

York Sample ID: 19J0928-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 2:45 pm

10/21/2019

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	9.72	B	ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/23/2019 08:43	10/23/2019 22:38	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	72.0 %	50-130							

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	2.38		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	7.19		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	14.0		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	53.3		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	30.5		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	17.9		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
375-95-1	* Perfluorononanoic acid (PFNA)	9.90		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	80.8		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT



Sample Information

Client Sample ID: MW-10S

York Sample ID: 19J0928-09

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 2:45 pm	<u>Date Received</u> 10/21/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	* Perfluorooctanoic acid (PFOA)	19.8		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	35.7		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 22:37	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	56.2 %	25-150
Surrogate: M5PFHxA	54.1 %	25-150
Surrogate: M4PFHpA	69.7 %	25-150
Surrogate: M3PFHxS	57.9 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	62.3 %	25-150
Surrogate: M6PFDA	60.8 %	25-150
Surrogate: M7PFUdA	54.3 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	45.0 %	PF-CC V-L 25-150
Surrogate: M2PFTeDA	31.8 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	61.0 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	57.0 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	53.5 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	42.3 %	10-150
Surrogate: d3-N-MeFOSAA	60.3 %	25-150
Surrogate: d5-N-EtFOSAA	63.3 %	25-150
Surrogate: M2-6:2 FTS	92.0 %	25-150
Surrogate: M2-8:2 FTS	100 %	25-150
Surrogate: M9PFNA	61.4 %	25-150

Sample Information

Client Sample ID: MW-10D

York Sample ID: 19J0928-10

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 2:50 pm	<u>Date Received</u> 10/21/2019
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Sample Information

Client Sample ID: MW-10D

York Sample ID: 19J0928-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 2:50 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-34-3	1,1-Dichloroethane	12		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ



Sample Information

Client Sample ID: MW-10D

York Sample ID: 19J0928-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 2:50 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	1.2	CCV-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-15-0	Carbon disulfide	0.24	J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.42	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
100-41-4	Ethyl Benzene	1.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ



Sample Information

Client Sample ID: MW-10D

York Sample ID: 19J0928-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 2:50 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
95-47-6	o-Xylene	2.1		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
179601-23-1	p- & m- Xylenes	5.0		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-65-0	tert-Butyl alcohol (TBA)	2.8		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
108-88-3	Toluene	3.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
156-60-5	trans-1,2-Dichloroethylene	0.30	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
75-01-4	Vinyl Chloride	1.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
1330-20-7	Xylenes, Total	7.1		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 18:10	LLJ
	Surrogate Recoveries	Result									



Sample Information

Client Sample ID: MW-10D

York Sample ID: 19J0928-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 2:50 pm

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	96.8 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	96.4 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	96.9 %			79-122						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	6.58	B	ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/23/2019 08:43	10/23/2019 22:55	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	76.0 %			50-130					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	6.62		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	10.8		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT



Sample Information

Client Sample ID: MW-10D

York Sample ID: 19J0928-10

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 2:50 pm	<u>Date Received</u> 10/21/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	49.2		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	21.9		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	13.0		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
375-95-1	* Perfluorononanoic acid (PFNA)	7.40		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	53.1		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	15.0		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	27.5		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:04	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	47.7 %	25-150
Surrogate: M5PFHxA	43.8 %	25-150
Surrogate: M4PFHpA	56.8 %	25-150
Surrogate: M3PFHxS	47.2 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	49.2 %	25-150
Surrogate: M6PFDA	49.8 %	25-150
Surrogate: M7PFUdA	36.7 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	36.2 %	PF-CC V-L 25-150
Surrogate: M2PFTeDA	34.7 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	48.0 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.1 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	44.9 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	38.5 %	10-150
Surrogate: d3-N-MeFOSAA	44.1 %	25-150
Surrogate: d5-N-EtFOSAA	44.3 %	25-150
Surrogate: M2-6:2 FTS	66.5 %	25-150



Sample Information

Client Sample ID: MW-10D

York Sample ID: 19J0928-10

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 2:50 pm	<u>Date Received</u> 10/21/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2-8:2 FTS	65.8 %			25-150					
	Surrogate: M9PFNA	50.4 %			25-150					

Sample Information

Client Sample ID: XDDMW-13

York Sample ID: 19J0928-11

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 4:10 pm	<u>Date Received</u> 10/21/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	14.9		ng/L	5.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	2.42		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	8.05		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	2.04		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	16.8		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	57.2		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	32.3		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	23.9		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT



Sample Information

Client Sample ID: XDDMW-13

York Sample ID: 19J0928-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 4:10 pm

10/21/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	* Perfluorononanoic acid (PFNA)	13.4		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	149		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	21.0		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	40.2		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	2.47		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:31	KT
Surrogate Recoveries		Result		Acceptance Range						
Surrogate: M3PFBS		51.5 %		25-150						
Surrogate: M5PFHxA		49.9 %		25-150						
Surrogate: M4PFHpA		61.7 %		25-150						
Surrogate: M3PFHxS		50.9 %		25-150						
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		51.4 %		25-150						
Surrogate: M6PFDA		57.6 %		25-150						
Surrogate: M7PFUdA		51.4 %		25-150						
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)		48.4 %	PF-CC V-L	25-150						
Surrogate: M2PFTeDA		42.8 %		10-150						
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)		53.1 %		25-150						
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		48.9 %		25-150						
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)		51.2 %		25-150						
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)		41.4 %		10-150						
Surrogate: d3-N-MeFOSAA		54.3 %		25-150						
Surrogate: d5-N-EtFOSAA		71.0 %		25-150						
Surrogate: M2-6:2 FTS		71.5 %		25-150						
Surrogate: M2-8:2 FTS		78.9 %		25-150						
Surrogate: M9PFNA		52.1 %		25-150						



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0928-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 12:00 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ



Sample Information

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19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 12:00 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0928-12

York Project (SDG) No.

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19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 12:00 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-09-2	Methylene chloride	1.1	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 12:55	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	103 %			69-130						



Sample Information

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Water

October 18, 2019 12:00 am

10/21/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: SURR: Toluene-d8	98.5 %			81-117						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %			79-122						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	0.840	B	ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/23/2019 08:43	10/23/2019 23:12	KH
	Surrogate Recoveries	Result			Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	72.0 %			50-130					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT



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Client Project ID

Matrix

Collection Date/Time

Date Received

19J0928

31402218.000 Westchester County Airport (WCA)

Water

October 18, 2019 12:00 am

10/21/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/24/2019 11:11	10/25/2019 23:58	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	59.2 %	25-150
Surrogate: M5PFHxA	55.6 %	25-150
Surrogate: M4PFHpA	71.7 %	25-150
Surrogate: M3PFHxS	57.4 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	58.7 %	25-150
Surrogate: M6PFDA	59.4 %	25-150
Surrogate: M7PFUdA	50.4 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	41.0 %	PF-CC V-L 25-150
Surrogate: M2PFTeDA	35.3 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	57.7 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	58.4 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	57.9 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	49.2 %	10-150
Surrogate: d3-N-MeFOSAA	61.5 %	25-150
Surrogate: d5-N-EtFOSAA	60.6 %	25-150
Surrogate: M2-6:2 FTS	75.9 %	25-150
Surrogate: M2-8:2 FTS	68.9 %	25-150
Surrogate: M9PFNA	60.3 %	25-150



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0928-12

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 12:00 am	<u>Date Received</u> 10/21/2019
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Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-21-1	* Ethylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 19:19	RB
57-55-6	* Propylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 19:19	RB
	Surrogate Recoveries	Result		Acceptance Range						
110-63-4	Surrogate: 1,4-Butanediol	81.9 %		30-130						

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0928-13

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 12:00 am	<u>Date Received</u> 10/21/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
87-61-6	1,2,3-Trichlorobenzene	0.23	CCV-E, ICV-E, QL-02, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0928-13

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 12:00 am	<u>Date Received</u> 10/21/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0928-13

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 12:00 am	<u>Date Received</u> 10/21/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0928-13

<u>York Project (SDG) No.</u> 19J0928	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 18, 2019 12:00 am	<u>Date Received</u> 10/21/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/23/2019 06:26	10/23/2019 11:10	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	105 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	99.6 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	102 %			79-122						



Analytical Batch Summary

Batch ID: BJ91214 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19J0928-04	FMW-27	10/23/19
19J0928-05	XDDMW-7S	10/23/19
19J0928-06	MW-7D (XDDMW-7R)	10/23/19
19J0928-07	MW-3 (XDDMW-3)	10/23/19
19J0928-09	MW-10S	10/23/19
19J0928-10	MW-10D	10/23/19
19J0928-12	Field Blank	10/23/19
19J0928-13	Trip Blank	10/23/19
BJ91214-BLK1	Blank	10/23/19
BJ91214-BS1	LCS	10/23/19
BJ91214-BSD1	LCS Dup	10/23/19

Batch ID: BJ91215 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19J0928-02	DPWMW-3	10/24/19
BJ91215-BLK1	Blank	10/24/19
BJ91215-BS1	LCS	10/24/19
BJ91215-BSD1	LCS Dup	10/24/19

Batch ID: BJ91319 **Preparation Method:** Preparation for GC Analysis **Prepared By:** CM

YORK Sample ID	Client Sample ID	Preparation Date
19J0928-01	FMW-37	10/22/19
19J0928-12	Field Blank	10/22/19
BJ91319-BLK1	Blank	10/22/19
BJ91319-BS1	LCS	10/22/19

Batch ID: BJ91378 **Preparation Method:** EPA 3535A **Prepared By:** CTD

YORK Sample ID	Client Sample ID	Preparation Date
19J0928-05	XDDMW-7S	10/23/19
19J0928-09	MW-10S	10/23/19
19J0928-10	MW-10D	10/23/19
19J0928-12	Field Blank	10/23/19
BJ91378-BLK1	Blank	10/23/19
BJ91378-BS1	LCS	10/23/19

Batch ID: BJ91487 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** WL

YORK Sample ID	Client Sample ID	Preparation Date
19J0928-01	FMW-37	10/24/19
19J0928-02	DPWMW-3	10/24/19



19J0928-03	FMW-17	10/24/19
19J0928-04	FMW-27	10/24/19
19J0928-05	XDDMW-7S	10/24/19
19J0928-06	MW-7D (XDDMW-7R)	10/24/19
19J0928-07	MW-3 (XDDMW-3)	10/24/19
19J0928-08	MW-4 (PMMW-1)	10/24/19
19J0928-09	MW-10S	10/24/19
19J0928-10	MW-10D	10/24/19
19J0928-11	XDDMW-13	10/24/19
19J0928-12	Field Blank	10/24/19
BJ91487-BLK1	Blank	10/24/19
BJ91487-BS1	LCS	10/24/19
BJ91487-MS1	Matrix Spike	10/24/19
BJ91487-MS2	Matrix Spike	10/24/19
BJ91487-MSD1	Matrix Spike Dup	10/24/19
BJ91487-MSD2	Matrix Spike Dup	10/24/19



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91214 - EPA 5030B

Blank (BJ91214-BLK1)

Prepared & Analyzed: 10/23/2019

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	0.33	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	0.21	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	0.43	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91214 - EPA 5030B

Blank (BJ91214-BLK1)

Prepared & Analyzed: 10/23/2019

Methylene chloride	ND	2.0	ug/L								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
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Surrogate: SURRE: 1,2-Dichloroethane-d4	10.3		"	10.0		103	69-130				
Surrogate: SURRE: Toluene-d8	9.76		"	10.0		97.6	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.95		"	10.0		99.5	79-122				

LCS (BJ91214-BS1)

Prepared & Analyzed: 10/23/2019

1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126				
1,1,1-Trichloroethane	9.3		"	10.0		92.8	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		108	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.9		"	10.0		98.9	54-165				
1,1,2-Trichloroethane	10		"	10.0		101	82-123				
1,1-Dichloroethane	10		"	10.0		102	82-129				
1,1-Dichloroethylene	9.4		"	10.0		94.2	68-138				
1,2,3-Trichlorobenzene	7.6		"	10.0		75.8	76-136	Low Bias			
1,2,3-Trichloropropane	11		"	10.0		108	77-128				
1,2,4-Trichlorobenzene	8.5		"	10.0		85.0	76-137				
1,2,4-Trimethylbenzene	9.8		"	10.0		98.0	82-132				
1,2-Dibromo-3-chloropropane	9.3		"	10.0		93.1	45-147				
1,2-Dibromoethane	11		"	10.0		105	83-124				
1,2-Dichlorobenzene	10		"	10.0		101	79-123				
1,2-Dichloroethane	10		"	10.0		101	73-132				
1,2-Dichloropropane	9.8		"	10.0		98.0	78-126				
1,3,5-Trimethylbenzene	9.8		"	10.0		97.9	80-131				
1,3-Dichlorobenzene	9.8		"	10.0		98.2	86-122				
1,4-Dichlorobenzene	9.9		"	10.0		98.9	85-124				
1,4-Dioxane	240		"	210		113	10-349				
2-Butanone	11		"	10.0		111	49-152				
2-Hexanone	10		"	10.0		101	51-146				
4-Methyl-2-pentanone	7.3		"	10.0		73.3	57-145				
Acetone	8.8		"	10.0		88.3	14-150				
Acrolein	3.6		"	10.0		35.8	10-153				
Acrylonitrile	11		"	10.0		113	51-150				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD	
		Limit	Units							Limit	Flag

Batch BJ91214 - EPA 5030B

LCS (BJ91214-BS1)

Prepared & Analyzed: 10/23/2019

Benzene	11		ug/L	10.0		109	85-126				
Bromochloromethane	11		"	10.0		108	77-128				
Bromodichloromethane	9.8		"	10.0		97.5	79-128				
Bromoform	10		"	10.0		99.9	78-133				
Bromomethane	4.8		"	10.0		47.8	43-168				
Carbon disulfide	8.0		"	10.0		80.4	68-146				
Carbon tetrachloride	9.0		"	10.0		89.6	77-141				
Chlorobenzene	10		"	10.0		101	88-120				
Chloroethane	11		"	10.0		113	65-136				
Chloroform	10		"	10.0		99.7	82-128				
Chloromethane	10		"	10.0		104	43-155				
cis-1,2-Dichloroethylene	10		"	10.0		101	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		100	80-131				
Cyclohexane	9.8		"	10.0		98.1	63-149				
Dibromochloromethane	10		"	10.0		101	80-130				
Dibromomethane	10		"	10.0		102	72-134				
Dichlorodifluoromethane	13		"	10.0		132	44-144				
Ethyl Benzene	11		"	10.0		105	80-131				
Hexachlorobutadiene	9.3		"	10.0		93.2	67-146				
Isopropylbenzene	9.8		"	10.0		97.9	76-140				
Methyl acetate	11		"	10.0		109	51-139				
Methyl tert-butyl ether (MTBE)	10		"	10.0		102	76-135				
Methylcyclohexane	7.0		"	10.0		69.6	72-143	Low Bias			
Methylene chloride	12		"	10.0		116	55-137				
n-Butylbenzene	9.2		"	10.0		92.2	79-132				
n-Propylbenzene	9.9		"	10.0		99.3	78-133				
o-Xylene	10		"	10.0		102	78-130				
p- & m- Xylenes	18		"	20.0		89.8	77-133				
p-Isopropyltoluene	9.4		"	10.0		94.0	81-136				
sec-Butylbenzene	9.6		"	10.0		96.0	79-137				
Styrene	10		"	10.0		104	67-132				
tert-Butyl alcohol (TBA)	50		"	50.0		101	25-162				
tert-Butylbenzene	7.7		"	10.0		77.0	77-138				
Tetrachloroethylene	8.2		"	10.0		82.2	82-131				
Toluene	11		"	10.0		105	80-127				
trans-1,2-Dichloroethylene	9.7		"	10.0		97.4	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131				
trans-1,4-dichloro-2-butene	11		"	10.0		107	63-141				
Trichloroethylene	9.3		"	10.0		93.4	82-128				
Trichlorofluoromethane	11		"	10.0		113	67-139				
Vinyl Chloride	10		"	10.0		101	58-145				
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Surrogate: SURR: 1,2-Dichloroethane-d4	10.2		"	10.0		102	69-130				
Surrogate: SURR: Toluene-d8	9.79		"	10.0		97.9	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.1		"	10.0		101	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91214 - EPA 5030B											
LCS Dup (BJ91214-BSD1)											
Prepared & Analyzed: 10/23/2019											
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		105	82-126		3.09	30	
1,1,1-Trichloroethane	9.2		"	10.0		91.5	78-136		1.41	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		111	76-129		3.29	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.6		"	10.0		96.1	54-165		2.87	30	
1,1,2-Trichloroethane	10		"	10.0		103	82-123		2.15	30	
1,1-Dichloroethane	10		"	10.0		103	82-129		0.390	30	
1,1-Dichloroethylene	9.2		"	10.0		92.3	68-138		2.04	30	
1,2,3-Trichlorobenzene	8.1		"	10.0		80.9	76-136		6.51	30	
1,2,3-Trichloropropane	11		"	10.0		109	77-128		0.923	30	
1,2,4-Trichlorobenzene	8.9		"	10.0		88.8	76-137		4.37	30	
1,2,4-Trimethylbenzene	9.9		"	10.0		99.3	82-132		1.32	30	
1,2-Dibromo-3-chloropropane	9.5		"	10.0		95.2	45-147		2.23	30	
1,2-Dibromoethane	11		"	10.0		107	83-124		1.98	30	
1,2-Dichlorobenzene	10		"	10.0		104	79-123		2.15	30	
1,2-Dichloroethane	10		"	10.0		104	73-132		3.21	30	
1,2-Dichloropropane	9.9		"	10.0		98.9	78-126		0.914	30	
1,3,5-Trimethylbenzene	9.9		"	10.0		98.6	80-131		0.712	30	
1,3-Dichlorobenzene	10		"	10.0		99.9	86-122		1.72	30	
1,4-Dichlorobenzene	10		"	10.0		101	85-124		1.80	30	
1,4-Dioxane	240		"	210		114	10-349		1.51	30	
2-Butanone	12		"	10.0		118	49-152		5.69	30	
2-Hexanone	10		"	10.0		102	51-146		0.295	30	
4-Methyl-2-pentanone	7.3		"	10.0		73.3	57-145		0.00	30	
Acetone	9.1		"	10.0		91.1	14-150		3.12	30	
Acrolein	3.5		"	10.0		35.0	10-153		2.26	30	
Acrylonitrile	12		"	10.0		118	51-150		3.98	30	
Benzene	11		"	10.0		110	85-126		0.916	30	
Bromochloromethane	11		"	10.0		111	77-128		2.82	30	
Bromodichloromethane	9.9		"	10.0		99.2	79-128		1.73	30	
Bromoform	10		"	10.0		103	78-133		2.67	30	
Bromomethane	5.1		"	10.0		51.1	43-168		6.67	30	
Carbon disulfide	7.8		"	10.0		78.1	68-146		2.90	30	
Carbon tetrachloride	8.8		"	10.0		88.4	77-141		1.35	30	
Chlorobenzene	10		"	10.0		103	88-120		1.86	30	
Chloroethane	11		"	10.0		113	65-136		0.708	30	
Chloroform	10		"	10.0		101	82-128		1.20	30	
Chloromethane	10		"	10.0		103	43-155		1.06	30	
cis-1,2-Dichloroethylene	10		"	10.0		103	83-129		1.18	30	
cis-1,3-Dichloropropylene	10		"	10.0		103	80-131		2.17	30	
Cyclohexane	9.7		"	10.0		96.6	63-149		1.54	30	
Dibromochloromethane	10		"	10.0		103	80-130		2.65	30	
Dibromomethane	11		"	10.0		106	72-134		4.05	30	
Dichlorodifluoromethane	13		"	10.0		129	44-144		2.83	30	
Ethyl Benzene	10		"	10.0		105	80-131		0.381	30	
Hexachlorobutadiene	9.2		"	10.0		91.5	67-146		1.84	30	
Isopropylbenzene	9.8		"	10.0		98.0	76-140		0.102	30	
Methyl acetate	11		"	10.0		112	51-139		2.53	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0		105	76-135		3.20	30	
Methylcyclohexane	6.8		"	10.0		68.4	72-143	Low Bias	1.74	30	
Methylene chloride	12		"	10.0		119	55-137		2.73	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91214 - EPA 5030B

LCS Dup (BJ91214-BSD1)

Prepared & Analyzed: 10/23/2019

n-Butylbenzene	9.3		ug/L	10.0		93.1	79-132		0.971	30	
n-Propylbenzene	9.9		"	10.0		98.7	78-133		0.606	30	
o-Xylene	10		"	10.0		102	78-130		0.491	30	
p- & m- Xylenes	18		"	20.0		89.8	77-133		0.0557	30	
p-Isopropyltoluene	9.5		"	10.0		94.6	81-136		0.636	30	
sec-Butylbenzene	9.6		"	10.0		96.3	79-137		0.312	30	
Styrene	10		"	10.0		104	67-132		0.673	30	
tert-Butyl alcohol (TBA)	51		"	50.0		103	25-162		2.10	30	
tert-Butylbenzene	7.7		"	10.0		76.8	77-138	Low Bias	0.260	30	
Tetrachloroethylene	8.1		"	10.0		81.3	82-131	Low Bias	1.10	30	
Toluene	11		"	10.0		105	80-127		0.0951	30	
trans-1,2-Dichloroethylene	9.7		"	10.0		96.7	80-132		0.721	30	
trans-1,3-Dichloropropylene	10		"	10.0		104	78-131		3.32	30	
trans-1,4-dichloro-2-butene	11		"	10.0		110	63-141		2.67	30	
Trichloroethylene	9.2		"	10.0		92.4	82-128		1.08	30	
Trichlorofluoromethane	11		"	10.0		108	67-139		4.80	30	
Vinyl Chloride	9.8		"	10.0		97.6	58-145		3.52	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.79</i>		<i>"</i>	<i>10.0</i>		<i>97.9</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>79-122</i>				

Batch BJ91215 - EPA 5030B

Blank (BJ91215-BLK1)

Prepared & Analyzed: 10/24/2019

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	1.4	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BJ91215 - EPA 5030B

Blank (BJ91215-BLK1)

Prepared & Analyzed: 10/24/2019

Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
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Surrogate: SURRE: 1,2-Dichloroethane-d4	12.2		"	10.0		122	69-130				
Surrogate: SURRE: Toluene-d8	9.61		"	10.0		96.1	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.43		"	10.0		94.3	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
Batch BJ91215 - EPA 5030B										
LCS (BJ91215-BS1)										
Prepared & Analyzed: 10/24/2019										
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		106	82-126			
1,1,1-Trichloroethane	11		"	10.0		110	78-136			
1,1,2,2-Tetrachloroethane	12		"	10.0		123	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		116	54-165			
1,1,2-Trichloroethane	11		"	10.0		111	82-123			
1,1-Dichloroethane	11		"	10.0		109	82-129			
1,1-Dichloroethylene	10		"	10.0		101	68-138			
1,2,3-Trichlorobenzene	9.5		"	10.0		95.3	76-136			
1,2,3-Trichloropropane	13		"	10.0		127	77-128			
1,2,4-Trichlorobenzene	9.4		"	10.0		94.0	76-137			
1,2,4-Trimethylbenzene	9.9		"	10.0		99.3	82-132			
1,2-Dibromo-3-chloropropane	13		"	10.0		128	45-147			
1,2-Dibromoethane	12		"	10.0		116	83-124			
1,2-Dichlorobenzene	11		"	10.0		107	79-123			
1,2-Dichloroethane	13		"	10.0		128	73-132			
1,2-Dichloropropane	9.8		"	10.0		98.0	78-126			
1,3,5-Trimethylbenzene	9.8		"	10.0		98.4	80-131			
1,3-Dichlorobenzene	9.9		"	10.0		98.6	86-122			
1,4-Dichlorobenzene	10		"	10.0		103	85-124			
1,4-Dioxane	400		"	210		189	10-349			
2-Butanone	13		"	10.0		126	49-152			
2-Hexanone	12		"	10.0		122	51-146			
4-Methyl-2-pentanone	13		"	10.0		126	57-145			
Acetone	11		"	10.0		112	14-150			
Acrolein	3.5		"	10.0		34.8	10-153			
Acrylonitrile	12		"	10.0		121	51-150			
Benzene	10		"	10.0		104	85-126			
Bromochloromethane	12		"	10.0		125	77-128			
Bromodichloromethane	11		"	10.0		108	79-128			
Bromoform	12		"	10.0		118	78-133			
Bromomethane	8.7		"	10.0		86.8	43-168			
Carbon disulfide	8.1		"	10.0		80.9	68-146			
Carbon tetrachloride	12		"	10.0		116	77-141			
Chlorobenzene	10		"	10.0		101	88-120			
Chloroethane	9.8		"	10.0		97.6	65-136			
Chloroform	11		"	10.0		110	82-128			
Chloromethane	7.6		"	10.0		75.9	43-155			
cis-1,2-Dichloroethylene	11		"	10.0		110	83-129			
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131			
Cyclohexane	5.0		"	10.0		49.6	63-149	Low Bias		
Dibromochloromethane	11		"	10.0		114	80-130			
Dibromomethane	11		"	10.0		112	72-134			
Dichlorodifluoromethane	10		"	10.0		104	44-144			
Ethyl Benzene	10		"	10.0		104	80-131			
Hexachlorobutadiene	7.6		"	10.0		75.5	67-146			
Isopropylbenzene	9.6		"	10.0		96.0	76-140			
Methyl acetate	13		"	10.0		134	51-139			
Methyl tert-butyl ether (MTBE)	12		"	10.0		122	76-135			
Methylcyclohexane	10		"	10.0		102	72-143			
Methylene chloride	12		"	10.0		118	55-137			



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91215 - EPA 5030B

LCS (BJ91215-BS1)

Prepared & Analyzed: 10/24/2019

n-Butylbenzene	10		ug/L	10.0		99.7	79-132				
n-Propylbenzene	9.9		"	10.0		98.9	78-133				
o-Xylene	10		"	10.0		103	78-130				
p- & m- Xylenes	21		"	20.0		106	77-133				
p-Isopropyltoluene	10		"	10.0		102	81-136				
sec-Butylbenzene	11		"	10.0		105	79-137				
Styrene	10		"	10.0		104	67-132				
tert-Butyl alcohol (TBA)	65		"	50.0		130	25-162				
tert-Butylbenzene	8.7		"	10.0		87.1	77-138				
Tetrachloroethylene	8.6		"	10.0		85.5	82-131				
Toluene	9.8		"	10.0		97.8	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		103	80-132				
trans-1,3-Dichloropropylene	11		"	10.0		109	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		101	63-141				
Trichloroethylene	9.6		"	10.0		95.9	82-128				
Trichlorofluoromethane	13		"	10.0		134	67-139				
Vinyl Chloride	8.7		"	10.0		87.1	58-145				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>12.2</i>		<i>"</i>	<i>10.0</i>		<i>122</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.68</i>		<i>"</i>	<i>10.0</i>		<i>96.8</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.61</i>		<i>"</i>	<i>10.0</i>		<i>96.1</i>	<i>79-122</i>				

LCS Dup (BJ91215-BSD1)

Prepared & Analyzed: 10/24/2019

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		109	82-126		3.07	30	
1,1,1-Trichloroethane	12		"	10.0		116	78-136		4.94	30	
1,1,2,2-Tetrachloroethane	12		"	10.0		117	76-129		4.59	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		120	54-165		3.89	30	
1,1,2-Trichloroethane	11		"	10.0		113	82-123		1.43	30	
1,1-Dichloroethane	11		"	10.0		114	82-129		4.39	30	
1,1-Dichloroethylene	11		"	10.0		107	68-138		5.66	30	
1,2,3-Trichlorobenzene	11		"	10.0		115	76-136		18.4	30	
1,2,3-Trichloropropane	12		"	10.0		119	77-128		5.85	30	
1,2,4-Trichlorobenzene	11		"	10.0		106	76-137		12.3	30	
1,2,4-Trimethylbenzene	9.9		"	10.0		98.8	82-132		0.505	30	
1,2-Dibromo-3-chloropropane	13		"	10.0		128	45-147		0.469	30	
1,2-Dibromoethane	12		"	10.0		120	83-124		2.96	30	
1,2-Dichlorobenzene	11		"	10.0		105	79-123		1.51	30	
1,2-Dichloroethane	13		"	10.0		132	73-132		2.61	30	
1,2-Dichloropropane	10		"	10.0		102	78-126		3.61	30	
1,3,5-Trimethylbenzene	9.6		"	10.0		96.5	80-131		1.95	30	
1,3-Dichlorobenzene	9.7		"	10.0		96.8	86-122		1.84	30	
1,4-Dichlorobenzene	9.9		"	10.0		99.2	85-124		3.76	30	
1,4-Dioxane	330		"	210		156	10-349		19.1	30	
2-Butanone	12		"	10.0		121	49-152		4.46	30	
2-Hexanone	13		"	10.0		131	51-146		7.10	30	
4-Methyl-2-pentanone	13		"	10.0		133	57-145		5.42	30	
Acetone	11		"	10.0		109	14-150		3.08	30	
Acrolein	4.6		"	10.0		45.8	10-153		27.3	30	
Acrylonitrile	7.7		"	10.0		77.3	51-150		44.1	30	Non-dir.
Benzene	11		"	10.0		110	85-126		5.05	30	
Bromochloromethane	12		"	10.0		123	77-128		1.37	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91215 - EPA 5030B

LCS Dup (BJ91215-BSD1)

Prepared & Analyzed: 10/24/2019

Bromodichloromethane	11		ug/L	10.0		111	79-128		3.10	30	
Bromoform	12		"	10.0		122	78-133		3.18	30	
Bromomethane	9.0		"	10.0		89.5	43-168		3.06	30	
Carbon disulfide	8.5		"	10.0		85.3	68-146		5.29	30	
Carbon tetrachloride	12		"	10.0		121	77-141		4.73	30	
Chlorobenzene	10		"	10.0		105	88-120		3.39	30	
Chloroethane	10		"	10.0		102	65-136		3.92	30	
Chloroform	11		"	10.0		115	82-128		3.99	30	
Chloromethane	7.9		"	10.0		78.8	43-155		3.75	30	
cis-1,2-Dichloroethylene	11		"	10.0		113	83-129		3.06	30	
cis-1,3-Dichloropropylene	10		"	10.0		104	80-131		2.14	30	
Cyclohexane	5.2		"	10.0		52.5	63-149	Low Bias	5.68	30	
Dibromochloromethane	12		"	10.0		118	80-130		2.85	30	
Dibromomethane	12		"	10.0		115	72-134		3.26	30	
Dichlorodifluoromethane	11		"	10.0		110	44-144		5.82	30	
Ethyl Benzene	11		"	10.0		110	80-131		5.24	30	
Hexachlorobutadiene	9.1		"	10.0		91.0	67-146		18.6	30	
Isopropylbenzene	9.4		"	10.0		93.5	76-140		2.64	30	
Methyl acetate	14		"	10.0		143	51-139	High Bias	6.65	30	
Methyl tert-butyl ether (MTBE)	13		"	10.0		128	76-135		4.89	30	
Methylcyclohexane	11		"	10.0		106	72-143		4.14	30	
Methylene chloride	12		"	10.0		122	55-137		3.34	30	
n-Butylbenzene	11		"	10.0		114	79-132		13.0	30	
n-Propylbenzene	9.8		"	10.0		97.6	78-133		1.32	30	
o-Xylene	11		"	10.0		108	78-130		5.12	30	
p- & m- Xylenes	22		"	20.0		112	77-133		5.66	30	
p-Isopropyltoluene	10		"	10.0		101	81-136		0.891	30	
sec-Butylbenzene	10		"	10.0		104	79-137		1.53	30	
Styrene	11		"	10.0		109	67-132		4.98	30	
tert-Butyl alcohol (TBA)	69		"	50.0		138	25-162		5.92	30	
tert-Butylbenzene	8.6		"	10.0		86.0	77-138		1.27	30	
Tetrachloroethylene	9.0		"	10.0		90.5	82-131		5.68	30	
Toluene	10		"	10.0		102	80-127		4.69	30	
trans-1,2-Dichloroethylene	11		"	10.0		108	80-132		4.65	30	
trans-1,3-Dichloropropylene	11		"	10.0		111	78-131		1.81	30	
trans-1,4-dichloro-2-butene	10		"	10.0		99.5	63-141		1.89	30	
Trichloroethylene	9.9		"	10.0		99.1	82-128		3.28	30	
Trichlorofluoromethane	13		"	10.0		130	67-139		3.56	30	
Vinyl Chloride	9.2		"	10.0		92.2	58-145		5.69	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	12.3		"	10.0		123	69-130				
Surrogate: SURRE: Toluene-d8	9.52		"	10.0		95.2	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.15		"	10.0		91.5	79-122				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91378 - EPA 3535A											
Blank (BJ91378-BLK1)											
										Prepared & Analyzed: 10/23/2019	
1,4-Dioxane	0.500	0.200	ug/L								
<i>Surrogate: 1,4-Dioxane-d8</i>	<i>4.00</i>		"	<i>5.00</i>		<i>80.0</i>	<i>50-130</i>				
LCS (BJ91378-BS1)											
										Prepared & Analyzed: 10/23/2019	
1,4-Dioxane	1.06	0.200	ug/L	1.00		106	50-130				
<i>Surrogate: 1,4-Dioxane-d8</i>	<i>3.80</i>		"	<i>5.00</i>		<i>76.0</i>	<i>50-130</i>				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BJ91487 - SPE Ext-PFAS-EPA 537.1M

Blank (BJ91487-BLK1)

Prepared: 10/24/2019 Analyzed: 10/25/2019

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	ng/L								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
N-EtFOSAA	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTTrDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Surrogate: M3PFBS	38.5		"	74.3		51.8		25-150			
Surrogate: M5PFHxA	40.0		"	80.0		50.1		25-150			
Surrogate: M4PFHpA	51.1		"	80.0		63.9		25-150			
Surrogate: M3PFHxS	39.0		"	75.7		51.5		25-150			
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	43.1		"	80.0		53.8		25-150			
Surrogate: M6PFDA	40.5		"	80.0		50.6		25-150			
Surrogate: M7PFUdA	36.0		"	80.0		45.0		25-150			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	31.7		"	80.0		39.7		25-150			
Surrogate: M2PFTeDA	23.0		"	80.0		28.8		10-150			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	39.2		"	80.0		49.0		25-150			
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	40.9		"	76.6		53.5		25-150			
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	40.7		"	80.0		50.9		25-150			
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	36.1		"	80.0		45.1		10-150			
Surrogate: d3-N-MeFOSAA	41.5		"	80.0		51.9		25-150			
Surrogate: d5-N-EtFOSAA	41.6		"	80.0		52.0		25-150			
Surrogate: M2-6:2 FTS	47.9		"	75.9		63.1		25-150			
Surrogate: M2-8:2 FTS	41.7		"	76.6		54.4		25-150			
Surrogate: M9PFNA	44.0		"	80.0		55.0		25-150			



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91487 - SPE Ext-PFAS-EPA 537.1M

LCS (BJ91487-BS1)

Prepared: 10/24/2019 Analyzed: 10/25/2019

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	77.3	2.00	ng/L	76.8		101	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	73.0	5.00	"	76.0		96.1	50-130				
N-EtFOSAA	75.4	2.00	"	80.0		94.3	50-130				
N-MeFOSAA	77.3	2.00	"	80.0		96.7	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	67.3	2.00	"	77.2		87.2	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	78.3	2.00	"	79.6		98.3	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	77.1	2.00	"	80.0		96.4	50-130				
Perfluorobutanesulfonic acid (PFBS)	73.2	2.00	"	70.8		103	50-130				
Perfluorodecanoic acid (PFDA)	75.4	2.00	"	80.0		94.2	50-130				
Perfluorododecanoic acid (PFDoA)	87.4	2.00	"	80.0		109	50-130				
Perfluoroheptanoic acid (PFHpA)	67.7	2.00	"	80.0		84.7	50-130				
Perfluorohexanesulfonic acid (PFHxS)	60.6	2.00	"	59.2		102	50-130				
Perfluorohexanoic acid (PFHxA)	75.5	2.00	"	80.0		94.4	50-130				
Perfluoro-n-butanoic acid (PFBA)	78.3	2.00	"	80.0		97.9	50-130				
Perfluorononanoic acid (PFNA)	75.8	2.00	"	76.8		98.7	50-130				
Perfluorooctanesulfonic acid (PFOS)	57.4	2.00	"	58.4		98.3	50-130				
Perfluorooctanoic acid (PFOA)	76.2	2.00	"	80.0		95.3	50-130				
Perfluoropentanoic acid (PFPeA)	77.7	2.00	"	80.0		97.1	50-130				
Perfluorotetradecanoic acid (PFTA)	81.0	2.00	"	80.0		101	50-130				
Perfluorotridecanoic acid (PFTTrDA)	70.8	2.00	"	80.0		88.5	50-130				
Perfluoroundecanoic acid (PFUnA)	83.3	2.00	"	80.0		104	50-130				
Surrogate: M3PFBS	41.8		"	74.3		56.2	25-150				
Surrogate: M5PFHxA	43.9		"	80.0		54.9	25-150				
Surrogate: M4PFHpA	53.0		"	80.0		66.3	25-150				
Surrogate: M3PFHxS	41.2		"	75.7		54.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	46.8		"	80.0		58.5	25-150				
Surrogate: M6PFDA	43.4		"	80.0		54.3	25-150				
Surrogate: M7PFUdA	35.5		"	80.0		44.3	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	32.9		"	80.0		41.1	25-150				
Surrogate: M2PFTeDA	32.0		"	80.0		40.0	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	43.8		"	80.0		54.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	42.6		"	76.6		55.6	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	44.6		"	80.0		55.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	40.1		"	80.0		50.1	10-150				
Surrogate: d3-N-MeFOSAA	47.1		"	80.0		58.9	25-150				
Surrogate: d5-N-EtFOSAA	44.7		"	80.0		55.8	25-150				
Surrogate: M2-6:2 FTS	44.9		"	75.9		59.1	25-150				
Surrogate: M2-8:2 FTS	36.5		"	76.6		47.7	25-150				
Surrogate: M9PFNA	47.1		"	80.0		58.9	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91487 - SPE Ext-PFAS-EPA 537.1M

Matrix Spike (BJ91487-MS1)	*Source sample: 19J0928-01 (FMW-37)						Prepared: 10/24/2019 Analyzed: 10/25/2019	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1090	25.0	ng/L	960	ND	114	25-150	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1050	62.5	"	950	84.3	102	25-150	
N-EtFOSAA	1050	25.0	"	1000	ND	105	25-150	
N-MeFOSAA	1020	25.0	"	1000	ND	102	25-150	
Perfluoro-1-decanesulfonic acid (PFDS)	992	25.0	"	965	ND	103	25-150	
Perfluoro-1-heptanesulfonic acid (PFHpS)	1190	25.0	"	995	46.5	115	25-150	
Perfluoro-1-octanesulfonamide (FOSA)	1000	25.0	"	1000	ND	100	25-150	
Perfluorobutanesulfonic acid (PFBS)	1030	25.0	"	885	49.3	111	25-150	
Perfluorodecanoic acid (PFDA)	977	25.0	"	1000	ND	97.7	25-150	
Perfluorododecanoic acid (PFDoA)	1050	25.0	"	1000	ND	105	25-150	
Perfluoroheptanoic acid (PFHpA)	1030	25.0	"	1000	83.8	94.3	25-150	
Perfluorohexanesulfonic acid (PFHxS)	1750	25.0	"	740	741	137	25-150	
Perfluorohexanoic acid (PFHxA)	1180	25.0	"	1000	185	99.9	25-150	
Perfluoro-n-butanoic acid (PFBA)	1110	25.0	"	1000	73.5	104	25-150	
Perfluorononanoic acid (PFNA)	981	25.0	"	960	39.2	98.1	25-150	
Perfluorooctanoic acid (PFOA)	1070	25.0	"	1000	90.7	97.9	25-150	
Perfluoropentanoic acid (PFPeA)	1220	25.0	"	1000	192	103	25-150	
Perfluorotetradecanoic acid (PFTA)	1020	25.0	"	1000	ND	102	25-150	
Perfluorotridecanoic acid (PFTrDA)	1070	25.0	"	1000	ND	107	25-150	
Perfluoroundecanoic acid (PFUnA)	1120	25.0	"	1000	ND	112	25-150	
Surrogate: M3PFBS	520		"	929		56.0	25-150	
Surrogate: M5PFHxA	523		"	1000		52.3	25-150	
Surrogate: M4PFHpA	644		"	1000		64.4	25-150	
Surrogate: M3PFHxS	506		"	946		53.5	25-150	
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	566		"	1000		56.6	25-150	
Surrogate: M6PFDA	564		"	1000		56.4	25-150	
Surrogate: M7PFUdA	462		"	1000		46.2	25-150	
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	441		"	1000		44.1	25-150	
Surrogate: M2PFTeDA	413		"	1000		41.3	10-150	
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	534		"	1000		53.4	25-150	
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	533		"	1000		53.3	25-150	
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	471		"	1000		47.1	10-150	
Surrogate: d3-N-MeFOSAA	566		"	1000		56.6	25-150	
Surrogate: d5-N-EtFOSAA	514		"	1000		51.4	25-150	
Surrogate: M2-6:2 FTS	665		"	949		70.0	25-150	
Surrogate: M2-8:2 FTS	594		"	958		62.0	25-150	
Surrogate: M9PFNA	604		"	1000		60.4	25-150	



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91487 - SPE Ext-PFAS-EPA 537.1M											
Matrix Spike (BJ91487-MS2)		*Source sample: 19J0928-01 (FMW-37)					Prepared: 10/24/2019 Analyzed: 10/28/2019				
Perfluorooctanesulfonic acid (PFOS)	4130	50.0	ng/L	730	2950	162	25-150	High Bias			
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	514		"	957		53.7	25-150				
Matrix Spike Dup (BJ91487-MSD1)		*Source sample: 19J0928-01 (FMW-37)					Prepared: 10/24/2019 Analyzed: 10/25/2019				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1070	25.0	ng/L	960	ND	111	25-150		2.03	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1050	62.5	"	950	84.3	102	25-150		0.0326	35	
N-EtFOSAA	1030	25.0	"	1000	ND	103	25-150		1.92	35	
N-MeFOSAA	996	25.0	"	1000	ND	99.6	25-150		2.55	35	
Perfluoro-1-decanesulfonic acid (PFDS)	996	25.0	"	965	ND	103	25-150		0.446	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	1160	25.0	"	995	46.5	112	25-150		2.15	35	
Perfluoro-1-octanesulfonamide (FOSA)	1010	25.0	"	1000	ND	101	25-150		0.791	35	
Perfluorobutanesulfonic acid (PFBS)	1030	25.0	"	885	49.3	110	25-150		0.245	35	
Perfluorodecanoic acid (PFDA)	1040	25.0	"	1000	ND	104	25-150		5.81	35	
Perfluorododecanoic acid (PFDoA)	1060	25.0	"	1000	ND	106	25-150		1.33	35	
Perfluoroheptanoic acid (PFHpA)	953	25.0	"	1000	83.8	87.0	25-150		7.42	35	
Perfluorohexanesulfonic acid (PFHxS)	1740	25.0	"	740	741	135	25-150		0.736	35	
Perfluorohexanoic acid (PFHxA)	1170	25.0	"	1000	185	98.3	25-150		1.39	35	
Perfluoro-n-butanoic acid (PFBA)	1100	25.0	"	1000	73.5	103	25-150		0.677	35	
Perfluorononanoic acid (PFNA)	981	25.0	"	960	39.2	98.1	25-150		0.0107	35	
Perfluorooctanoic acid (PFOA)	1110	25.0	"	1000	90.7	102	25-150		4.04	35	
Perfluoropentanoic acid (PFPeA)	1220	25.0	"	1000	192	103	25-150		0.480	35	
Perfluorotetradecanoic acid (PFTA)	1090	25.0	"	1000	ND	109	25-150		6.72	35	
Perfluorotridecanoic acid (PFTDA)	1010	25.0	"	1000	ND	101	25-150		5.73	35	
Perfluoroundecanoic acid (PFUnA)	1060	25.0	"	1000	ND	106	25-150		5.93	35	
<i>Surrogate: M3PFBS</i>	483		"	929		52.0	25-150				
<i>Surrogate: M5PFHxA</i>	496		"	1000		49.6	25-150				
<i>Surrogate: M4PFHpA</i>	617		"	1000		61.7	25-150				
<i>Surrogate: M3PFHxS</i>	473		"	946		50.0	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	520		"	1000		52.0	25-150				
<i>Surrogate: M6PFDA</i>	488		"	1000		48.8	25-150				
<i>Surrogate: M7PFUdA</i>	494		"	1000		49.4	25-150				
<i>Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)</i>	405		"	1000		40.5	25-150				
<i>Surrogate: M2PFTeDA</i>	371		"	1000		37.1	10-150				
<i>Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)</i>	490		"	1000		49.0	25-150				
<i>Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)</i>	502		"	1000		50.2	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)</i>	427		"	1000		42.7	10-150				
<i>Surrogate: d3-N-MeFOSAA</i>	531		"	1000		53.1	25-150				
<i>Surrogate: d5-N-EtFOSAA</i>	497		"	1000		49.7	25-150				
<i>Surrogate: M2-6:2 FTS</i>	627		"	949		66.1	25-150				
<i>Surrogate: M2-8:2 FTS</i>	526		"	958		54.9	25-150				
<i>Surrogate: M9PFNA</i>	530		"	1000		53.0	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result		Limits		Limit			

Batch BJ91487 - SPE Ext-PFAS-EPA 537.1M

Matrix Spike Dup (BJ91487-MSD2)	*Source sample: 19J0928-01 (FMW-37)							Prepared: 10/24/2019 Analyzed: 10/28/2019	
Perfluorooctanesulfonic acid (PFOS)	4010	50.0	ng/L	730	2950	145	25-150	3.07	35
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	475		"	957		49.6	25-150		



Gas Chromatography/Flame Ionization Detector - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result	Limits	Limit				

Batch BJ91319 - Preparation for GC Analysis

Blank (BJ91319-BLK1)

Prepared: 10/22/2019 Analyzed: 10/23/2019

Ethylene Glycol	ND	10.0	mg/L								
Propylene Glycol	ND	10.0	"								
<i>Surrogate: 1,4-Butanediol</i>	<i>46.8</i>		<i>"</i>	<i>50.0</i>		<i>93.6</i>	<i>30-130</i>				

LCS (BJ91319-BS1)

Prepared: 10/22/2019 Analyzed: 10/23/2019

Ethylene Glycol	46.2	10.0	mg/L	50.0		92.5	60-140				
Propylene Glycol	46.0	10.0	"	50.0		92.0	60-140				
<i>Surrogate: 1,4-Butanediol</i>	<i>47.4</i>		<i>"</i>	<i>50.0</i>		<i>94.8</i>	<i>30-130</i>				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19J0928-02	DPWMW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0928-04	FMW-27	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0928-05	XDDMW-7S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0928-06	MW-7D (XDDMW-7R)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0928-07	MW-3 (XDDMW-3)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0928-09	MW-10S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0928-10	MW-10D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0928-12	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0928-13	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-CCV-L	The CCV recovery was slightly below acceptable limits for the qualified compound. However, sample results are not biased low because results are corrected for isotope recovery.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.



If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



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Field Chain-of-Custody Record

YORK Project No.

19J0928

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
 This document serves as your written authorization for YORK to proceed with the analyses requested below.
 Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 2

YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: WSP USA	Company:	Company:			RUSH - Next Day
Address: 4 Westchester Park Dr White Plains, NY 10604	Address:	Address:			RUSH - Two Day
Phone: 914 694 5711	Phone: Same	Phone: Same			RUSH - Three Day
Contact: John Benvegna	Contact:	Contact:			RUSH - Four Day
E-mail: John.Benvegna@WSP.com	E-mail:	E-mail:			Standard (5-7 Day) <input checked="" type="checkbox"/>
				YOUR Project Name Westchester County Airport (WCA)	
				YOUR PO#: 31402218.000	

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until all questions by YORK are resolved. Mike Reiff Samples Collected by: (print your name above and sign below)	Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
	S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil Other	New York New Jersey Connecticut Pennsylvania Other	<input checked="" type="checkbox"/> Summary Report <input type="checkbox"/> QA Report <input type="checkbox"/> NY ASP A Package <input checked="" type="checkbox"/> NY ASP B Package	CT RCP CT RCP DQA/DUE NJDEP Reduced Deliverables NJDKQP	Standard Excel EDD EQUIS (Standard) NYSDEC EQUIS NJDEP SRP HazSite Other:	Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested				Container Description
			EPA 537	8260 Full	1,4 Dioxane	Glycols	
FMW-37	GW	10/15/19 1025	<input checked="" type="checkbox"/>				29 plastics, 2A Vials
DPW-MW-3		1120		<input checked="" type="checkbox"/>			3 Vials
FMW-17		1135					
FMW-27		1155		<input checked="" type="checkbox"/>			3 Vials
XDD MW-7S		1310		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3 Vials, 1A Vial
MW-7D (XDD MW-7R)		1330		<input checked="" type="checkbox"/>			3 Vials
MW-3 (XDD MW-3)		1510		<input checked="" type="checkbox"/>			3 Vials
MW-4 (PMMW-1)		1520		<input checked="" type="checkbox"/>			
MW-10S		1445		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3 Vials, 1A Vial

Comments:	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: _____	Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
<i>[Signature]</i> WSP	10/15/19 1700	<i>[Signature]</i>	10-21-19 13:52	<i>[Signature]</i>	10-21-19 1446		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received In LAB by	Temp. Received at Lab
						<i>[Signature]</i> 10-21-19 1446	3.2 Degrees C



York Analytical Laboratories, Inc.
 120 Research Drive 132-02 89th Ave
 Stratford, CT 06615 Queens, NY 11418
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.
 1950928
 Page 2 of 2

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
 This document serves as your written authorization for YORK to proceed with the analyses requested below.
 Your signature binds you to YORK's Standard Terms & Conditions.

YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: WSP USA	Company:	Company:	Company:	—	RUSH - Next Day
Address: 4 Westchester Park Dr White Plains, NY 10604	Address:	Address:	Address:		RUSH - Two Day
Phone: 914 694 5711	Phone: Same	Phone: Same	Phone:		RUSH - Three Day
Contact: John Benvegna	Contact:	Contact:	Contact:		RUSH - Four Day
E-mail: John.Benvegna@WSP.com	E-mail:	E-mail:	E-mail:	YOUR Project Name Westchester County Airport (WCA)	Standard (5-7 Day) <input checked="" type="checkbox"/>
				YOUR PO#: 31402218.000	

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved. Mike Reiff Samples Collected by: (print your name above and sign below)	Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
	S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil ; Other	New York <input checked="" type="checkbox"/> New Jersey Connecticut Pennsylvania Other		Summary Report QA Report NY ASP A Package NY ASP B Package	CT RCP CT RCP DQA/DUE NJDEP Reduced Deliverables NJDKQP	Standard Excel EDD EQUIS (Standard) NYSDEC EQUIS NJDEP SRP HazSite Other:

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested				Container Description
			EPA 537	8260 Full	1,4 Dioxane	Glycols	
MW-10D	GW	10/18/19 1450	X	X	X		2 Plastics, 3 Vials, 1 Amber
XDDMW-13	GW	1610					↓
field Blank	DI			X	X	X	1 Plastic, 5 vials, 1 Amber
TRIP Blank	DI			X			2 Vials

Comments:	Preservation: (check all that apply)	Special Instruction
	HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___	Field Filtered ___ Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
WSP [Signature]	10/18/19 1700	Chic [Signature]	10-21-19 13:50	[Signature]	10-21-19 1446	[Signature]	10-21-19 1446
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Temp. Received at Lab
						79ah 10-21-19 1446	3-2 Degrees C



Technical Report

prepared for:

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Report Date: 11/05/2019
Client Project ID: 31402218.000 Westchester County Airport (WCA)
York Project (SDG) No.: 19J0965

Revision No. 1.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

WSP USA, Inc. (White Plains)
4 Westchester Park Drive, Suite 175
White Plains NY, 10604
Attention: John Benvegna

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 22, 2019 and listed below. The project was identified as your project: **31402218.000 Westchester County Airport (WCA)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19J0965-01	Hanger E MW-1	Water	10/21/2019	10/22/2019
19J0965-02	Hanger E MW-2	Water	10/21/2019	10/22/2019
19J0965-03	Hanger E MW-3	Water	10/21/2019	10/22/2019
19J0965-04	Hanger E MW-4	Water	10/21/2019	10/22/2019
19J0965-05	FMW-40	Water	10/21/2019	10/22/2019
19J0965-06	FMW-31	Water	10/21/2019	10/22/2019
19J0965-07	FMW-35	Water	10/21/2019	10/22/2019
19J0965-08	FMW-36	Water	10/21/2019	10/22/2019
19J0965-09	FMW-12	Water	10/21/2019	10/22/2019
19J0965-10	BRMW-2	Water	10/21/2019	10/22/2019
19J0965-11	FMW-11	Water	10/21/2019	10/22/2019
19J0965-12	Field Duplicate	Water	10/21/2019	10/22/2019
19J0965-13	Field Blank	Water	10/21/2019	10/22/2019
19J0965-14	Trip Blank	Water	10/21/2019	10/22/2019

General Notes for York Project (SDG) No.: 19J0965

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/05/2019





Sample Information

Client Sample ID: Hanger E MW-1

York Sample ID: 19J0965-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 10:10 am	10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-34-3	1,1-Dichloroethane	35		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-35-4	1,1-Dichloroethylene	130		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
95-50-1	1,2-Dichlorobenzene	0.23	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
107-06-2	1,2-Dichloroethane	8.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
123-91-1	1,4-Dioxane	9100	CCV-E	ug/L	2000	2000	50	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 06:00	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ



Sample Information

Client Sample ID: Hanger E MW-1

York Sample ID: 19J0965-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 10:10 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
71-43-2	Benzene	0.85		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
74-83-9	Bromomethane	0.39	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-00-3	Chloroethane	46		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
156-59-2	cis-1,2-Dichloroethylene	18		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ



Sample Information

Client Sample ID: Hanger E MW-1

York Sample ID: 19J0965-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 10:10 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	0.23	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
108-87-2	Methylcyclohexane	0.37	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-09-2	Methylene chloride	1.3	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
95-47-6	o-Xylene	0.28	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
135-98-8	sec-Butylbenzene	0.31	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-65-0	tert-Butyl alcohol (TBA)	28	CCV-E	ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
156-60-5	trans-1,2-Dichloroethylene	0.21	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
79-01-6	Trichloroethylene	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
75-01-4	Vinyl Chloride	19		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:12	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 14:12	LLJ



Sample Information

Client Sample ID: Hanger E MW-1

York Sample ID: 19J0965-01

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 10:10 am	<u>Date Received</u> 10/22/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	116 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	98.4 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	93.3 %			79-122						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	1940		ug/L	5.00	25	EPA 8270D SIM	10/28/2019 10:09	10/30/2019 17:21	KH
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	100 %			50-130					

Certifications: NJDEP,NELAC-NY10854

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	19.3		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	606		ng/L	25.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								
375-85-9	* Perfluoroheptanoic acid (PFHpA)	314		ng/L	10.0	5	EPA 537m	10/28/2019 11:32	10/30/2019 14:17	KT
		Certifications:								



Sample Information

Client Sample ID: Hanger E MW-1

York Sample ID: 19J0965-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 10:10 am	10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 14:17	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	1210		ng/L	40.0	20	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 14:44	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	477		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 14:17	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 14:17	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	12.6		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 14:17	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	194		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 14:17	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	3450		ng/L	50.0	25	EPA 537m Certifications:	10/28/2019 11:32	10/31/2019 12:40	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 14:17	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 14:17	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 14:17	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	99.2 %	25-150
Surrogate: M5PFHxA	91.7 %	25-150
Surrogate: M5PFHxA	88.2 %	25-150
Surrogate: M4PFHpA	103 %	25-150
Surrogate: M3PFHxS	101 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	87.9 %	25-150
Surrogate: M6PFDA	89.3 %	25-150
Surrogate: M7PFUdA	75.6 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	63.2 %	25-150
Surrogate: M2PFTeDA	33.9 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	102 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	93.9 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	73.7 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	80.0 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	59.6 %	10-150
Surrogate: d3-N-MeFOSAA	85.7 %	25-150



Sample Information

Client Sample ID: Hanger E MW-1

York Sample ID: 19J0965-01

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 10:10 am	<u>Date Received</u> 10/22/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d5-N-EtFOSAA	104 %			25-150					
	Surrogate: M2-6:2 FTS	171 %	PF-CC V-H		25-150					
	Surrogate: M2-8:2 FTS	142 %			25-150					
	Surrogate: M9PFNA	92.7 %			25-150					

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-21-1	* Ethylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 19:40	RB
57-55-6	* Propylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 19:40	RB
	Surrogate Recoveries	Result					Acceptance Range			
110-63-4	Surrogate: 1,4-Butanediol	84.2 %					30-130			

Sample Information

Client Sample ID: Hanger E MW-2

York Sample ID: 19J0965-02

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 11:05 am	<u>Date Received</u> 10/22/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
75-34-3	1,1-Dichloroethane	29		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ



Sample Information

Client Sample ID: Hanger E MW-2

York Sample ID: 19J0965-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 11:05 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	59		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
107-06-2	1,2-Dichloroethane	3.6		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
123-91-1	1,4-Dioxane	2600	CCV-E	ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
71-43-2	Benzene	0.46	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ



Sample Information

Client Sample ID: Hanger E MW-2

York Sample ID: 19J0965-02

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 11:05 am	<u>Date Received</u> 10/22/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
74-83-9	Bromomethane	0.40	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
75-00-3	Chloroethane	0.42	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
156-59-2	cis-1,2-Dichloroethylene	6.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
108-87-2	Methylcyclohexane	0.36	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ



Sample Information

Client Sample ID: Hanger E MW-2

York Sample ID: 19J0965-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 11:05 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
135-98-8	sec-Butylbenzene	0.21	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
79-01-6	Trichloroethylene	0.79		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
75-01-4	Vinyl Chloride	5.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 14:40	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	121 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	96.9 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	91.6 %	79-122								

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	263		ug/L	1.00	5	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/28/2019 10:09	10/30/2019 17:39	KH



Sample Information

Client Sample ID: Hanger E MW-2

York Sample ID: 19J0965-02

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 11:05 am	<u>Date Received</u> 10/22/2019
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Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	40.0 %	S1-DIO X		50-130					

Sample Information

Client Sample ID: Hanger E MW-3

York Sample ID: 19J0965-03

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 10:40 am	<u>Date Received</u> 10/22/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-34-3	1,1-Dichloroethane	4.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-35-4	1,1-Dichloroethylene	14		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ



Sample Information

Client Sample ID: Hanger E MW-3

York Sample ID: 19J0965-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 10:40 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
123-91-1	1,4-Dioxane	120	CCV-E	ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
78-93-3	2-Butanone	0.70	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
71-43-2	Benzene	0.27	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
74-83-9	Bromomethane	0.43	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ



Sample Information

Client Sample ID: Hanger E MW-3

York Sample ID: 19J0965-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 10:40 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	2.6		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
98-82-8	Isopropylbenzene	0.51		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ



Sample Information

Client Sample ID: Hanger E MW-3

York Sample ID: 19J0965-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 10:40 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
75-01-4	Vinyl Chloride	2.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 15:08	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	121 %			69-130						
2037-26-5	Surrogate: <i>SURR:</i> <i>Toluene-d8</i>	96.0 %			81-117						
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	94.3 %			79-122						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	17.2		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/28/2019 10:09	10/28/2019 17:37	KH
Surrogate Recoveries		Result			Acceptance Range					
17647-74-4	Surrogate: <i>1,4-Dioxane-d8</i>	36.0 %	S1-DIO X		50-130					

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	136		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	628		ng/L	100	20	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:38	KT



Sample Information

Client Sample ID: Hanger E MW-3

York Sample ID: 19J0965-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 10:40 am	10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	301		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	11.0		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	420		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	188		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
375-95-1	* Perfluorononanoic acid (PFNA)	32.6		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	43.3		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	240		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	949		ng/L	40.0	20	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:38	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 15:11	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	95.4 %	25-150
Surrogate: M5PFHxA	83.9 %	25-150
Surrogate: M4PFHpA	103 %	25-150
Surrogate: M3PFHxS	96.9 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	89.2 %	25-150



Sample Information

Client Sample ID: Hanger E MW-3

York Sample ID: 19J0965-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 10:40 am	10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M6PFDA	85.3 %			25-150					
	Surrogate: M7PFUdA	64.5 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	56.6 %			25-150					
	Surrogate: M2PFTeDA	44.8 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	92.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	93.2 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	84.2 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	46.5 %			10-150					
	Surrogate: d3-N-MeFOSAA	81.6 %			25-150					
	Surrogate: d5-N-EtFOSAA	86.4 %			25-150					
	Surrogate: M2-6:2 FTS	203 %	PF-CC V-H		25-150					
	Surrogate: M2-8:2 FTS	135 %			25-150					
	Surrogate: M9PFNA	88.0 %			25-150					

Sample Information

Client Sample ID: Hanger E MW-4

York Sample ID: 19J0965-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 11:15 am	10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ



Sample Information

Client Sample ID: Hanger E MW-4

York Sample ID: 19J0965-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 11:15 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	0.55		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
75-35-4	1,1-Dichloroethylene	0.52		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
123-91-1	1,4-Dioxane	59	CCV-E	ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
78-93-3	2-Butanone	0.23	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ



Sample Information

Client Sample ID: Hanger E MW-4

York Sample ID: 19J0965-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 11:15 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
74-83-9	Bromomethane	0.22	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
156-59-2	cis-1,2-Dichloroethylene	0.41	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:03	LLJ



Sample Information

Client Sample ID: Hanger E MW-4

York Sample ID: 19J0965-04

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 19J0965, 31402218.000 Westchester County Airport (WCA), Water, October 21, 2019 11:15 am, 10/22/2019

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes data for 1,4-Dioxane and Surrogate Recoveries.

Sample Information

Client Sample ID: FMW-40

York Sample ID: 19J0965-05

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 19J0965, 31402218.000 Westchester County Airport (WCA), Water, October 21, 2019 12:20 pm, 10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various volatile organics and their results.



Sample Information

Client Sample ID: FMW-40

York Sample ID: 19J0965-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:20 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
67-64-1	Acetone	3.3	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ



Sample Information

Client Sample ID: FMW-40

York Sample ID: 19J0965-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:20 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ



Sample Information

Client Sample ID: FMW-40

York Sample ID: 19J0965-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:20 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 16:31	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	128 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	95.8 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	101 %	79-122								

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	25.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	15.4		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT



Sample Information

Client Sample ID: FMW-40

York Sample ID: 19J0965-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:20 pm

10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	12.2		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	50.7		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	434		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	85.6		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	45.7		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
375-95-1	* Perfluorononanoic acid (PFNA)	117		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	1200		ng/L	20.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 17:53	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	82.2		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	101		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	23.2		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 20:22	KT
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M3PFBS	82.4 %		25-150						
	Surrogate: M5PFHxA	74.2 %		25-150						
	Surrogate: M4PFHpA	101 %		25-150						
	Surrogate: M3PFHxS	76.6 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	82.9 %		25-150						
	Surrogate: M6PFDA	84.7 %		25-150						
	Surrogate: M7PFUdA	71.8 %		25-150						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	64.2 %		25-150						
	Surrogate: M2PFTeDA	52.6 %		10-150						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	82.9 %		25-150						



Sample Information

Client Sample ID: FMW-40

York Sample ID: 19J0965-05

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 12:20 pm	<u>Date Received</u> 10/22/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	80.3 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	78.1 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	68.1 %			10-150					
	Surrogate: d3-N-MeFOSAA	88.7 %			25-150					
	Surrogate: d5-N-EtFOSAA	91.9 %			25-150					
	Surrogate: M2-6:2 FTS	128 %			25-150					
	Surrogate: M2-8:2 FTS	156 %	PFSu-H		25-150					
	Surrogate: M9PFNA	78.4 %			25-150					

Sample Information

Client Sample ID: FMW-31

York Sample ID: 19J0965-06

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 11:50 am	<u>Date Received</u> 10/22/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ



Sample Information

Client Sample ID: FMW-31

York Sample ID: 19J0965-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 11:50 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	9.1		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
108-67-8	1,3,5-Trimethylbenzene	3.4		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
67-64-1	Acetone	5.8	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
74-83-9	Bromomethane	0.31	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ



Sample Information

Client Sample ID: FMW-31

York Sample ID: 19J0965-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 11:50 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
156-59-2	cis-1,2-Dichloroethylene	1.6		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
100-41-4	Ethyl Benzene	0.50		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
98-82-8	Isopropylbenzene	0.95		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
103-65-1	n-Propylbenzene	1.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
95-47-6	o-Xylene	0.38	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
179601-23-1	p- & m- Xylenes	0.73	J	ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ



Sample Information

Client Sample ID: FMW-31

York Sample ID: 19J0965-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 11:50 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
98-06-6	tert-Butylbenzene	0.37	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
1330-20-7	Xylenes, Total	1.1	J	ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 16:58	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	126 %			69-130						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	96.7 %			81-117						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	88.4 %			79-122						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	318		ng/L	100	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT



Sample Information

Client Sample ID: FMW-31

York Sample ID: 19J0965-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 11:50 am

10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	223		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	75.5		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	65.3		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	1570		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	196		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	63.9		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
375-95-1	* Perfluorononanoic acid (PFNA)	117		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	5040		ng/L	200	10	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 19:14	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	175		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	219		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	40.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 18:20	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	132 %	25-150
Surrogate: M5PFHxA	120 %	25-150
Surrogate: M4PFHpA	158 %	25-150
Surrogate: M3PFHxS	123 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	134 %	25-150
Surrogate: M6PFDA	116 %	25-150
Surrogate: M7PFUdA	116 %	25-150

PFSu-H



Sample Information

Client Sample ID: FMW-31

York Sample ID: 19J0965-06

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 19J0965, 31402218.000 Westchester County Airport (WCA), Water, October 21, 2019 11:50 am, 10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various surrogate PFAS compounds and their results.

Sample Information

Client Sample ID: FMW-35

York Sample ID: 19J0965-07

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 19J0965, 31402218.000 Westchester County Airport (WCA), Water, October 21, 2019 12:10 pm, 10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists volatile organic compounds and their results.



Sample Information

Client Sample ID: FMW-35

York Sample ID: 19J0965-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:10 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ



Sample Information

Client Sample ID: FMW-35

York Sample ID: 19J0965-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:10 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	0.20	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ



Sample Information

Client Sample ID: FMW-35

York Sample ID: 19J0965-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:10 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 17:27	LLJ
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	123 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	95.0 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	99.4 %			79-122						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT



Sample Information

Client Sample ID: FMW-35

York Sample ID: 19J0965-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:10 pm

10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	2.36		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	6.27		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	4.46		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	78.9		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	8.34		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	14.0		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
375-95-1	* Perfluorononanoic acid (PFNA)	2.66		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	182		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	20.7		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	7.30		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 21:16	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		62.2 %	25-150							
Surrogate: M5PFHxA		51.4 %	25-150							
Surrogate: M4PFHpA		69.8 %	25-150							



Sample Information

Client Sample ID: FMW-35					York Sample ID: 19J0965-07
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>	
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 12:10 pm	10/22/2019	

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	60.7 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	56.3 %			25-150					
	Surrogate: M6PFDA	53.9 %			25-150					
	Surrogate: M7PFUdA	51.8 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	48.1 %			25-150					
	Surrogate: M2PFTeDA	43.9 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	60.8 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	60.8 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	56.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	49.7 %			10-150					
	Surrogate: d3-N-MeFOSAA	62.2 %			25-150					
	Surrogate: d5-N-EtFOSAA	65.0 %			25-150					
	Surrogate: M2-6:2 FTS	102 %			25-150					
	Surrogate: M2-8:2 FTS	97.0 %			25-150					
	Surrogate: M9PFNA	58.9 %			25-150					

Sample Information

Client Sample ID: FMW-36					York Sample ID: 19J0965-08
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>	
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 12:45 pm	10/22/2019	

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	21.9		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	25.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT



Sample Information

Client Sample ID: FMW-36

York Sample ID: 19J0965-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:45 pm

10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	10.2		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	17.2		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	13.4		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	13.3		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	40.5		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	10.5		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:07	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	73.7 %	25-150
Surrogate: M5PFHxA	69.7 %	25-150
Surrogate: M4PFHpA	84.8 %	25-150
Surrogate: M3PFHxS	76.7 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	78.4 %	25-150
Surrogate: M6PFDA	63.6 %	25-150
Surrogate: M7PFUdA	53.6 %	25-150



Sample Information

Client Sample ID: FMW-36			York Sample ID: 19J0965-08
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 12:45 pm
			<u>Date Received</u> 10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	33.3 %				25-150				
	Surrogate: M2PFTeDA	10.1 %				10-150				
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	47.5 %				25-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	69.3 %				25-150				
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	71.9 %				25-150				
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	27.5 %				10-150				
	Surrogate: d3-N-MeFOSAA	64.7 %				25-150				
	Surrogate: d5-N-EtFOSAA	64.3 %				25-150				
	Surrogate: M2-6:2 FTS	149 %				25-150				
	Surrogate: M2-8:2 FTS	115 %				25-150				
	Surrogate: M9PFNA	70.8 %				25-150				

Sample Information

Client Sample ID: FMW-12			York Sample ID: 19J0965-09
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 12:50 pm
			<u>Date Received</u> 10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ



Sample Information

Client Sample ID: FMW-12

York Sample ID: 19J0965-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:50 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
67-64-1	Acetone	1.8	CCV-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ



Sample Information

Client Sample ID: FMW-12

York Sample ID: 19J0965-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:50 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ



Sample Information

Client Sample ID: FMW-12

York Sample ID: 19J0965-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:50 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 17:55	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	126 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	96.9 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	96.9 %	79-122								

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT



Sample Information

Client Sample ID: FMW-12

York Sample ID: 19J0965-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:50 pm

10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	33.1		ng/L	25.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	11.7		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	31.5		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	40.3		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	327		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	104		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	33.8		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
375-95-1	* Perfluorononanoic acid (PFNA)	10.5		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	856		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	65.4		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	68.6		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 22:37	KT
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M3PFBS	70.1 %		25-150						
	Surrogate: M5PFHxA	63.6 %		25-150						
	Surrogate: M4PFHpA	86.0 %		25-150						



Sample Information

Client Sample ID: FMW-12

York Sample ID: 19J0965-09

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 12:50 pm	10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	68.6 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	67.7 %			25-150					
	Surrogate: M6PFDA	70.0 %			25-150					
	Surrogate: M7PFUdA	65.4 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	52.4 %			25-150					
	Surrogate: M2PFTeDA	44.3 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	70.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	66.2 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	66.6 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	57.9 %			10-150					
	Surrogate: d3-N-MeFOSAA	76.3 %			25-150					
	Surrogate: d5-N-EtFOSAA	78.7 %			25-150					
	Surrogate: M2-6:2 FTS	116 %			25-150					
	Surrogate: M2-8:2 FTS	122 %			25-150					
	Surrogate: M9PFNA	71.7 %			25-150					

Sample Information

Client Sample ID: BRMW-2

York Sample ID: 19J0965-10

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 1:40 pm	10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.0	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT



Sample Information

Client Sample ID: BRMW-2

York Sample ID: 19J0965-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 1:40 pm

10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	29.9		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	18.5		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	131		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	48.8		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	26.0		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
375-95-1	* Perfluorononanoic acid (PFNA)	6.20		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	93.7		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	31.3		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	50.8		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	4.00	2	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 20:34	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	84.7 %	25-150
Surrogate: M5PFHxA	78.6 %	25-150
Surrogate: M4PFHpA	103 %	25-150
Surrogate: M3PFHxS	88.4 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	86.9 %	25-150
Surrogate: M6PFDA	78.6 %	25-150
Surrogate: M7PFUdA	67.6 %	25-150



Sample Information

Client Sample ID: BRMW-2

York Sample ID: 19J0965-10

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 1:40 pm	<u>Date Received</u> 10/22/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	61.4 %			25-150					
	Surrogate: M2PFTeDA	40.6 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	92.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	85.3 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	78.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.1 %			10-150					
	Surrogate: d3-N-MeFOSAA	83.0 %			25-150					
	Surrogate: d5-N-EtFOSAA	85.7 %			25-150					
	Surrogate: M2-6:2 FTS	158 %	PFSu-H		25-150					
	Surrogate: M2-8:2 FTS	146 %			25-150					
	Surrogate: M9PFNA	82.2 %			25-150					

Sample Information

Client Sample ID: FMW-11

York Sample ID: 19J0965-11

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 1:55 pm	<u>Date Received</u> 10/22/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ



Sample Information

Client Sample ID: FMW-11

York Sample ID: 19J0965-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 1:55 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	80	80	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
78-93-3	2-Butanone	1.1	CCV-E, J, B	ug/L	0.40	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
67-64-1	Acetone	ND		ug/L	2.0	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
107-02-8	Acrolein	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
71-43-2	Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-25-2	Bromoform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ



Sample Information

Client Sample ID: FMW-11

York Sample ID: 19J0965-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 1:55 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	0.40	CCV-E, J	ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-00-3	Chloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
67-66-3	Chloroform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
74-87-3	Chloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-09-2	Methylene chloride	ND		ug/L	2.0	4.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
95-47-6	o-Xylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ



Sample Information

Client Sample ID: FMW-11

York Sample ID: 19J0965-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 1:55 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	2.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
100-42-5	Styrene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	1.0	2.0	2	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
108-88-3	Toluene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	1.2	3.0	2	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 18:23	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	126 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	96.1 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	102 %	79-122								

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT



Sample Information

Client Sample ID: FMW-11

York Sample ID: 19J0965-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 1:55 pm

10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	3.00		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	3.30		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	11.3		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	6.13		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	8.22		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	6.01		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	15.2		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	6.59		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/29/2019 23:31	KT
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M3PFBS	67.7 %		25-150						
	Surrogate: M5PFHxA	63.4 %		25-150						
	Surrogate: M4PFHpA	78.5 %		25-150						



Sample Information

Client Sample ID: FMW-11

York Sample ID: 19J0965-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 1:55 pm	10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	68.0 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	63.4 %			25-150					
	Surrogate: M6PFDA	75.8 %			25-150					
	Surrogate: M7PFUdA	57.1 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	45.8 %			25-150					
	Surrogate: M2PFTeDA	34.9 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	70.2 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	67.3 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	64.5 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	48.5 %			10-150					
	Surrogate: d3-N-MeFOSAA	69.0 %			25-150					
	Surrogate: d5-N-EtFOSAA	73.4 %			25-150					
	Surrogate: M2-6:2 FTS	102 %			25-150					
	Surrogate: M2-8:2 FTS	110 %			25-150					
	Surrogate: M9PFNA	68.1 %			25-150					

Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0965-12

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 12:00 am	10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0965-12

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 12:00 am	<u>Date Received</u> 10/22/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-34-3	1,1-Dichloroethane	32		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-35-4	1,1-Dichloroethylene	120		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
95-50-1	1,2-Dichlorobenzene	0.22	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
107-06-2	1,2-Dichloroethane	8.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
108-10-1	4-Methyl-2-pentanone	0.24	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
71-43-2	Benzene	0.78		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0965-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:00 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
74-83-9	Bromomethane	0.33	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-00-3	Chloroethane	39		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
156-59-2	cis-1,2-Dichloroethylene	17		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
108-87-2	Methylcyclohexane	0.37	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-09-2	Methylene chloride	1.2	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0965-12

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 12:00 am	<u>Date Received</u> 10/22/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
95-47-6	o-Xylene	0.26	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
135-98-8	sec-Butylbenzene	0.27	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-65-0	tert-Butyl alcohol (TBA)	18	CCV-E	ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
156-60-5	trans-1,2-Dichloroethylene	0.20	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
79-01-6	Trichloroethylene	1.1		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
75-01-4	Vinyl Chloride	17		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 12:23	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	125 %			69-130						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	96.2 %			81-117						
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	96.0 %			79-122						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE www.YORKLAB.com	STRATFORD, CT 06615 (203) 325-1371		■		132-02 89th AVENUE FAX (203) 357-0166		RICHMOND HILL, NY 11418 ClientServices@			



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0965-12

York Project (SDG) No. 19J0965 Client Project ID 31402218.000 Westchester County Airport (WCA) Matrix Water Collection Date/Time October 21, 2019 12:00 am Date Received 10/22/2019

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes data for 1,4-Dioxane and Surrogate Recoveries.

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various PFAS compounds and their results.



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0965-12

York Project (SDG) No. 19J0965 **Client Project ID** 31402218.000 Westchester County Airport (WCA) **Matrix** Water **Collection Date/Time** October 21, 2019 12:00 am **Date Received** 10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	* Perfluorooctanoic acid (PFOA)	179		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 21:01	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	3620		ng/L	40.0	20	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 21:28	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 21:01	KT
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 21:01	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	10.0	5	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 21:01	KT

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS	94.1 %	25-150
Surrogate: M5PFHxA	79.7 %	25-150
Surrogate: M4PFHpA	109 %	25-150
Surrogate: M3PFHxS	96.2 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	90.0 %	25-150
Surrogate: M6PFDA	82.8 %	25-150
Surrogate: M7PFUdA	81.0 %	25-150
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	64.1 %	25-150
Surrogate: M2PFTeDA	60.5 %	10-150
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	95.7 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	92.5 %	25-150
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	79.0 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	65.4 %	10-150
Surrogate: d3-N-MeFOSAA	89.4 %	25-150
Surrogate: d5-N-EtFOSAA	98.8 %	25-150
Surrogate: M2-6:2 FTS	172 %	PFSu-H 25-150
Surrogate: M2-8:2 FTS	131 %	25-150
Surrogate: M9PFNA	81.4 %	25-150

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-21-1	* Ethylene Glycol	ND		mg/L	10.0	1	GC/FID Certifications:	10/22/2019 10:44	10/23/2019 20:02	RB



Sample Information

Client Sample ID: Field Duplicate

York Sample ID: 19J0965-12

York Project (SDG) No. 19J0965 Client Project ID 31402218.000 Westchester County Airport (WCA) Matrix Water Collection Date/Time October 21, 2019 12:00 am Date Received 10/22/2019

Glycols, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Preparation for GC Analysis

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes data for Propylene Glycol and Surrogate Recoveries for 1,4-Butanediol.

Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0965-13

York Project (SDG) No. 19J0965 Client Project ID 31402218.000 Westchester County Airport (WCA) Matrix Water Collection Date/Time October 21, 2019 2:00 pm Date Received 10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various volatile organic compounds and their results.



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0965-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 2:00 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
78-93-3	2-Butanone	0.40	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
74-83-9	Bromomethane	0.32	CCV-E, J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0965-13

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 2:00 pm	<u>Date Received</u> 10/22/2019
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
75-09-2	Methylene chloride	1.3	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0965-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 2:00 pm

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/28/2019 06:26	10/29/2019 02:44	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	110 %			69-130						
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	95.8 %			81-117						
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	100 %			79-122						

Semi-Volatiles, 1,4-Dioxane by 8270-SIM

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
123-91-1	1,4-Dioxane	0.480		ug/L	0.200	1	EPA 8270D SIM Certifications: NJDEP,NELAC-NY10854	10/28/2019 10:09	10/28/2019 18:29	KH	
Surrogate Recoveries		Result			Acceptance Range						
17647-74-4	Surrogate: <i>1,4-Dioxane-d8</i>	84.0 %			50-130						

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	5.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0965-13

<u>York Project (SDG) No.</u> 19J0965	<u>Client Project ID</u> 31402218.000 Westchester County Airport (WCA)	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 21, 2019 2:00 pm	<u>Date Received</u> 10/22/2019
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PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2991-50-6	* N-EtFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
2355-31-9	* N-MeFOSAA	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
3871-99-6	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	1	EPA 537m Certifications:	10/28/2019 11:32	10/30/2019 00:24	KT
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M3PFBS		83.3 %	25-150							
Surrogate: M5PFHxA		77.3 %	25-150							
Surrogate: M4PFHpA		100 %	25-150							
Surrogate: M3PFHxS		82.2 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		85.3 %	25-150							
Surrogate: M6PFDA		80.8 %	25-150							



Sample Information

Client Sample ID: Field Blank

York Sample ID: 19J0965-13

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 2:00 pm	10/22/2019

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	74.8 %			25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	67.1 %			25-150					
	Surrogate: M2PFTeDA	57.9 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	83.9 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	80.8 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	80.4 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	73.5 %			10-150					
	Surrogate: d3-N-MeFOSAA	96.2 %			25-150					
	Surrogate: d5-N-EtFOSAA	94.2 %			25-150					
	Surrogate: M2-6:2 FTS	124 %			25-150					
	Surrogate: M2-8:2 FTS	152 %	PFSu-H		25-150					
	Surrogate: M9PFNA	89.9 %			25-150					

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0965-14

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
19J0965	31402218.000 Westchester County Airport (WCA)	Water	October 21, 2019 12:00 am	10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0965-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:00 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
78-93-3	2-Butanone	0.50	CCV-E, J, B	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0965-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:00 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
74-83-9	Bromomethane	0.30	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 19J0965-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19J0965

31402218.000 Westchester County Airport (WCA)

Water

October 21, 2019 12:00 am

10/22/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	10/24/2019 06:07	10/24/2019 11:56	LLJ
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	10/24/2019 06:07	10/24/2019 11:56	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	124 %	69-130
2037-26-5	Surrogate: SURRE: Toluene-d8	98.0 %	81-117
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	99.8 %	79-122



Analytical Batch Summary

Batch ID: BJ91215 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19J0965-01	Hanger E MW-1	10/24/19
19J0965-02	Hanger E MW-2	10/24/19
19J0965-03	Hanger E MW-3	10/24/19
19J0965-04	Hanger E MW-4	10/24/19
19J0965-05	FMW-40	10/24/19
19J0965-06	FMW-31	10/24/19
19J0965-07	FMW-35	10/24/19
19J0965-09	FMW-12	10/24/19
19J0965-11	FMW-11	10/24/19
19J0965-12	Field Duplicate	10/24/19
19J0965-14	Trip Blank	10/24/19
BJ91215-BLK1	Blank	10/24/19
BJ91215-BS1	LCS	10/24/19
BJ91215-BSD1	LCS Dup	10/24/19
BJ91215-MS1	Matrix Spike	10/24/19
BJ91215-MSD1	Matrix Spike Dup	10/24/19

Batch ID: BJ91319 **Preparation Method:** Preparation for GC Analysis **Prepared By:** CM

YORK Sample ID	Client Sample ID	Preparation Date
19J0965-01	Hanger E MW-1	10/22/19
19J0965-12	Field Duplicate	10/22/19
BJ91319-BLK1	Blank	10/22/19
BJ91319-BS1	LCS	10/22/19

Batch ID: BJ91641 **Preparation Method:** EPA 3535A **Prepared By:** CTD

YORK Sample ID	Client Sample ID	Preparation Date
19J0965-01	Hanger E MW-1	10/28/19
19J0965-01RE1	Hanger E MW-1	10/28/19
19J0965-02	Hanger E MW-2	10/28/19
19J0965-02RE1	Hanger E MW-2	10/28/19
19J0965-03	Hanger E MW-3	10/28/19
19J0965-04	Hanger E MW-4	10/28/19
19J0965-12	Field Duplicate	10/28/19
19J0965-12RE1	Field Duplicate	10/28/19
19J0965-12RE2	Field Duplicate	10/28/19
19J0965-13	Field Blank	10/28/19
BJ91641-BLK1	Blank	10/28/19
BJ91641-BS1	LCS	10/28/19
BJ91641-MS1	Matrix Spike	10/28/19
BJ91641-MSD1	Matrix Spike Dup	10/28/19



Batch ID: BJ91651

Preparation Method: SPE Ext-PFAS-EPA 537.1M

Prepared By: WL

YORK Sample ID	Client Sample ID	Preparation Date
19J0965-01	Hanger E MW-1	10/28/19
19J0965-01RE1	Hanger E MW-1	10/28/19
19J0965-01RE2	Hanger E MW-1	10/28/19
19J0965-03	Hanger E MW-3	10/28/19
19J0965-03RE1	Hanger E MW-3	10/28/19
19J0965-05	FMW-40	10/28/19
19J0965-05RE1	FMW-40	10/28/19
19J0965-06	FMW-31	10/28/19
19J0965-06RE1	FMW-31	10/28/19
19J0965-07	FMW-35	10/28/19
19J0965-08	FMW-36	10/28/19
19J0965-09	FMW-12	10/28/19
19J0965-10	BRMW-2	10/28/19
19J0965-11	FMW-11	10/28/19
19J0965-12	Field Duplicate	10/28/19
19J0965-12RE1	Field Duplicate	10/28/19
19J0965-13	Field Blank	10/28/19
BJ91651-BLK1	Blank	10/28/19
BJ91651-BS1	LCS	10/28/19
BJ91651-MS1	Matrix Spike	10/28/19
BJ91651-MS2	Matrix Spike	10/28/19
BJ91651-MSD1	Matrix Spike Dup	10/28/19
BJ91651-MSD2	Matrix Spike Dup	10/28/19

Batch ID: BJ91693

Preparation Method: EPA 5030B

Prepared By: LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19J0965-01RE1	Hanger E MW-1	10/28/19
19J0965-12RE1	Field Duplicate	10/24/19
19J0965-13	Field Blank	10/28/19
BJ91693-BLK1	Blank	10/28/19
BJ91693-BS1	LCS	10/28/19
BJ91693-BSD1	LCS Dup	10/28/19



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91215 - EPA 5030B

Blank (BJ91215-BLK1)

Prepared & Analyzed: 10/24/2019

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	1.4	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Flag	RPD	RPD	
		Limit							Units	Level

Batch BJ91215 - EPA 5030B

Blank (BJ91215-BLK1)

Prepared & Analyzed: 10/24/2019

Methylene chloride	ND	2.0	ug/L							
n-Butylbenzene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
o-Xylene	ND	0.50	"							
p- & m- Xylenes	ND	1.0	"							
p-Isopropyltoluene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
tert-Butyl alcohol (TBA)	ND	1.0	"							
tert-Butylbenzene	ND	0.50	"							
Tetrachloroethylene	ND	0.50	"							
Toluene	ND	0.50	"							
trans-1,2-Dichloroethylene	ND	0.50	"							
trans-1,3-Dichloropropylene	ND	0.50	"							
trans-1,4-dichloro-2-butene	ND	0.50	"							
Trichloroethylene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl Chloride	ND	0.50	"							
Xylenes, Total	ND	1.5	"							
<hr/>										
Surrogate: SURRE: 1,2-Dichloroethane-d4	12.2		"	10.0		122	69-130			
Surrogate: SURRE: Toluene-d8	9.61		"	10.0		96.1	81-117			
Surrogate: SURRE: p-Bromofluorobenzene	9.43		"	10.0		94.3	79-122			

LCS (BJ91215-BS1)

Prepared & Analyzed: 10/24/2019

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		106	82-126			
1,1,1-Trichloroethane	11		"	10.0		110	78-136			
1,1,2,2-Tetrachloroethane	12		"	10.0		123	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		116	54-165			
1,1,2-Trichloroethane	11		"	10.0		111	82-123			
1,1-Dichloroethane	11		"	10.0		109	82-129			
1,1-Dichloroethylene	10		"	10.0		101	68-138			
1,2,3-Trichlorobenzene	9.5		"	10.0		95.3	76-136			
1,2,3-Trichloropropane	13		"	10.0		127	77-128			
1,2,4-Trichlorobenzene	9.4		"	10.0		94.0	76-137			
1,2,4-Trimethylbenzene	9.9		"	10.0		99.3	82-132			
1,2-Dibromo-3-chloropropane	13		"	10.0		128	45-147			
1,2-Dibromoethane	12		"	10.0		116	83-124			
1,2-Dichlorobenzene	11		"	10.0		107	79-123			
1,2-Dichloroethane	13		"	10.0		128	73-132			
1,2-Dichloropropane	9.8		"	10.0		98.0	78-126			
1,3,5-Trimethylbenzene	9.8		"	10.0		98.4	80-131			
1,3-Dichlorobenzene	9.9		"	10.0		98.6	86-122			
1,4-Dichlorobenzene	10		"	10.0		103	85-124			
1,4-Dioxane	400		"	210		189	10-349			
2-Butanone	13		"	10.0		126	49-152			
2-Hexanone	12		"	10.0		122	51-146			
4-Methyl-2-pentanone	13		"	10.0		126	57-145			
Acetone	11		"	10.0		112	14-150			
Acrolein	3.5		"	10.0		34.8	10-153			
Acrylonitrile	12		"	10.0		121	51-150			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit

Batch BJ91215 - EPA 5030B

LCS (BJ91215-BS1)

Prepared & Analyzed: 10/24/2019

Benzene	10		ug/L	10.0		104	85-126			
Bromochloromethane	12		"	10.0		125	77-128			
Bromodichloromethane	11		"	10.0		108	79-128			
Bromoform	12		"	10.0		118	78-133			
Bromomethane	8.7		"	10.0		86.8	43-168			
Carbon disulfide	8.1		"	10.0		80.9	68-146			
Carbon tetrachloride	12		"	10.0		116	77-141			
Chlorobenzene	10		"	10.0		101	88-120			
Chloroethane	9.8		"	10.0		97.6	65-136			
Chloroform	11		"	10.0		110	82-128			
Chloromethane	7.6		"	10.0		75.9	43-155			
cis-1,2-Dichloroethylene	11		"	10.0		110	83-129			
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131			
Cyclohexane	5.0		"	10.0		49.6	63-149	Low Bias		
Dibromochloromethane	11		"	10.0		114	80-130			
Dibromomethane	11		"	10.0		112	72-134			
Dichlorodifluoromethane	10		"	10.0		104	44-144			
Ethyl Benzene	10		"	10.0		104	80-131			
Hexachlorobutadiene	7.6		"	10.0		75.5	67-146			
Isopropylbenzene	9.6		"	10.0		96.0	76-140			
Methyl acetate	13		"	10.0		134	51-139			
Methyl tert-butyl ether (MTBE)	12		"	10.0		122	76-135			
Methylcyclohexane	10		"	10.0		102	72-143			
Methylene chloride	12		"	10.0		118	55-137			
n-Butylbenzene	10		"	10.0		99.7	79-132			
n-Propylbenzene	9.9		"	10.0		98.9	78-133			
o-Xylene	10		"	10.0		103	78-130			
p- & m- Xylenes	21		"	20.0		106	77-133			
p-Isopropyltoluene	10		"	10.0		102	81-136			
sec-Butylbenzene	11		"	10.0		105	79-137			
Styrene	10		"	10.0		104	67-132			
tert-Butyl alcohol (TBA)	65		"	50.0		130	25-162			
tert-Butylbenzene	8.7		"	10.0		87.1	77-138			
Tetrachloroethylene	8.6		"	10.0		85.5	82-131			
Toluene	9.8		"	10.0		97.8	80-127			
trans-1,2-Dichloroethylene	10		"	10.0		103	80-132			
trans-1,3-Dichloropropylene	11		"	10.0		109	78-131			
trans-1,4-dichloro-2-butene	10		"	10.0		101	63-141			
Trichloroethylene	9.6		"	10.0		95.9	82-128			
Trichlorofluoromethane	13		"	10.0		134	67-139			
Vinyl Chloride	8.7		"	10.0		87.1	58-145			
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>12.2</i>		<i>"</i>	<i>10.0</i>		<i>122</i>	<i>69-130</i>			
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.68</i>		<i>"</i>	<i>10.0</i>		<i>96.8</i>	<i>81-117</i>			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.61</i>		<i>"</i>	<i>10.0</i>		<i>96.1</i>	<i>79-122</i>			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91215 - EPA 5030B											
LCS Dup (BJ91215-BSD1)											
Prepared & Analyzed: 10/24/2019											
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		109	82-126		3.07	30	
1,1,1-Trichloroethane	12		"	10.0		116	78-136		4.94	30	
1,1,2,2-Tetrachloroethane	12		"	10.0		117	76-129		4.59	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		120	54-165		3.89	30	
1,1,2-Trichloroethane	11		"	10.0		113	82-123		1.43	30	
1,1-Dichloroethane	11		"	10.0		114	82-129		4.39	30	
1,1-Dichloroethylene	11		"	10.0		107	68-138		5.66	30	
1,2,3-Trichlorobenzene	11		"	10.0		115	76-136		18.4	30	
1,2,3-Trichloropropane	12		"	10.0		119	77-128		5.85	30	
1,2,4-Trichlorobenzene	11		"	10.0		106	76-137		12.3	30	
1,2,4-Trimethylbenzene	9.9		"	10.0		98.8	82-132		0.505	30	
1,2-Dibromo-3-chloropropane	13		"	10.0		128	45-147		0.469	30	
1,2-Dibromoethane	12		"	10.0		120	83-124		2.96	30	
1,2-Dichlorobenzene	11		"	10.0		105	79-123		1.51	30	
1,2-Dichloroethane	13		"	10.0		132	73-132		2.61	30	
1,2-Dichloropropane	10		"	10.0		102	78-126		3.61	30	
1,3,5-Trimethylbenzene	9.6		"	10.0		96.5	80-131		1.95	30	
1,3-Dichlorobenzene	9.7		"	10.0		96.8	86-122		1.84	30	
1,4-Dichlorobenzene	9.9		"	10.0		99.2	85-124		3.76	30	
1,4-Dioxane	330		"	210		156	10-349		19.1	30	
2-Butanone	12		"	10.0		121	49-152		4.46	30	
2-Hexanone	13		"	10.0		131	51-146		7.10	30	
4-Methyl-2-pentanone	13		"	10.0		133	57-145		5.42	30	
Acetone	11		"	10.0		109	14-150		3.08	30	
Acrolein	4.6		"	10.0		45.8	10-153		27.3	30	
Acrylonitrile	7.7		"	10.0		77.3	51-150		44.1	30	Non-dir.
Benzene	11		"	10.0		110	85-126		5.05	30	
Bromochloromethane	12		"	10.0		123	77-128		1.37	30	
Bromodichloromethane	11		"	10.0		111	79-128		3.10	30	
Bromoform	12		"	10.0		122	78-133		3.18	30	
Bromomethane	9.0		"	10.0		89.5	43-168		3.06	30	
Carbon disulfide	8.5		"	10.0		85.3	68-146		5.29	30	
Carbon tetrachloride	12		"	10.0		121	77-141		4.73	30	
Chlorobenzene	10		"	10.0		105	88-120		3.39	30	
Chloroethane	10		"	10.0		102	65-136		3.92	30	
Chloroform	11		"	10.0		115	82-128		3.99	30	
Chloromethane	7.9		"	10.0		78.8	43-155		3.75	30	
cis-1,2-Dichloroethylene	11		"	10.0		113	83-129		3.06	30	
cis-1,3-Dichloropropylene	10		"	10.0		104	80-131		2.14	30	
Cyclohexane	5.2		"	10.0		52.5	63-149	Low Bias	5.68	30	
Dibromochloromethane	12		"	10.0		118	80-130		2.85	30	
Dibromomethane	12		"	10.0		115	72-134		3.26	30	
Dichlorodifluoromethane	11		"	10.0		110	44-144		5.82	30	
Ethyl Benzene	11		"	10.0		110	80-131		5.24	30	
Hexachlorobutadiene	9.1		"	10.0		91.0	67-146		18.6	30	
Isopropylbenzene	9.4		"	10.0		93.5	76-140		2.64	30	
Methyl acetate	14		"	10.0		143	51-139	High Bias	6.65	30	
Methyl tert-butyl ether (MTBE)	13		"	10.0		128	76-135		4.89	30	
Methylcyclohexane	11		"	10.0		106	72-143		4.14	30	
Methylene chloride	12		"	10.0		122	55-137		3.34	30	



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91215 - EPA 5030B

LCS Dup (BJ91215-BSD1)

Prepared & Analyzed: 10/24/2019

n-Butylbenzene	11		ug/L	10.0		114	79-132		13.0	30	
n-Propylbenzene	9.8		"	10.0		97.6	78-133		1.32	30	
o-Xylene	11		"	10.0		108	78-130		5.12	30	
p- & m- Xylenes	22		"	20.0		112	77-133		5.66	30	
p-Isopropyltoluene	10		"	10.0		101	81-136		0.891	30	
sec-Butylbenzene	10		"	10.0		104	79-137		1.53	30	
Styrene	11		"	10.0		109	67-132		4.98	30	
tert-Butyl alcohol (TBA)	69		"	50.0		138	25-162		5.92	30	
tert-Butylbenzene	8.6		"	10.0		86.0	77-138		1.27	30	
Tetrachloroethylene	9.0		"	10.0		90.5	82-131		5.68	30	
Toluene	10		"	10.0		102	80-127		4.69	30	
trans-1,2-Dichloroethylene	11		"	10.0		108	80-132		4.65	30	
trans-1,3-Dichloropropylene	11		"	10.0		111	78-131		1.81	30	
trans-1,4-dichloro-2-butene	10		"	10.0		99.5	63-141		1.89	30	
Trichloroethylene	9.9		"	10.0		99.1	82-128		3.28	30	
Trichlorofluoromethane	13		"	10.0		130	67-139		3.56	30	
Vinyl Chloride	9.2		"	10.0		92.2	58-145		5.69	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>12.3</i>		<i>"</i>	<i>10.0</i>		<i>123</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>9.52</i>		<i>"</i>	<i>10.0</i>		<i>95.2</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>9.15</i>		<i>"</i>	<i>10.0</i>		<i>91.5</i>	<i>79-122</i>				

Matrix Spike (BJ91215-MS1)

*Source sample: 19J0965-03 (Hanger E MW-3)

Prepared & Analyzed: 10/24/2019

1,1,1,2-Tetrachloroethane	10		ug/L	10.0	0.0	103	45-161				
1,1,1-Trichloroethane	12		"	10.0	0.0	119	70-146				
1,1,2,2-Tetrachloroethane	10		"	10.0	0.0	102	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0	0.0	120	21-217				
1,1,2-Trichloroethane	9.8		"	10.0	0.0	98.5	59-146				
1,1-Dichloroethane	15		"	10.0	4.3	112	54-146				
1,1-Dichloroethylene	25		"	10.0	14	110	44-165				
1,2,3-Trichlorobenzene	7.9		"	10.0	0.0	79.0	40-161				
1,2,3-Trichloropropane	11		"	10.0	0.0	107	74-127				
1,2,4-Trichlorobenzene	8.0		"	10.0	0.0	79.9	41-161				
1,2,4-Trimethylbenzene	9.7		"	10.0	0.0	97.1	72-129				
1,2-Dibromo-3-chloropropane	12		"	10.0	0.0	115	31-151				
1,2-Dibromoethane	10		"	10.0	0.0	102	75-125				
1,2-Dichlorobenzene	9.7		"	10.0	0.0	97.4	63-122				
1,2-Dichloroethane	13		"	10.0	0.0	128	68-131				
1,2-Dichloropropane	9.2		"	10.0	0.0	92.1	77-121				
1,3,5-Trimethylbenzene	9.7		"	10.0	0.0	97.2	69-126				
1,3-Dichlorobenzene	9.2		"	10.0	0.0	92.0	74-119				
1,4-Dichlorobenzene	9.3		"	10.0	0.0	92.7	70-124				
1,4-Dioxane	440		"	210	120	155	10-310				
2-Butanone	9.2		"	10.0	0.70	84.9	10-193				
2-Hexanone	10		"	10.0	0.0	105	53-133				
4-Methyl-2-pentanone	11		"	10.0	0.0	108	38-150				
Acetone	14		"	10.0	0.0	140	13-149				
Acrolein	4.0		"	10.0	0.0	39.6	10-195				
Acrylonitrile	10		"	10.0	0.0	99.9	37-165				
Benzene	11		"	10.0	0.27	105	38-155				
Bromochloromethane	11		"	10.0	0.0	106	75-121				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91215 - EPA 5030B

Matrix Spike (BJ91215-MS1)	*Source sample: 19J0965-03 (Hanger E MW-3)					Prepared & Analyzed: 10/24/2019					
Bromodichloromethane	10		ug/L	10.0	0.0	104	70-129				
Bromoform	9.9		"	10.0	0.0	98.9	66-136				
Bromomethane	4.9		"	10.0	0.43	44.5	30-158				
Carbon disulfide	8.7		"	10.0	0.0	87.4	10-138				
Carbon tetrachloride	13		"	10.0	0.0	126	71-146				
Chlorobenzene	9.9		"	10.0	0.0	99.0	81-117				
Chloroethane	11		"	10.0	0.0	107	51-145				
Chloroform	11		"	10.0	0.0	112	80-124				
Chloromethane	7.2		"	10.0	0.0	71.9	16-163				
cis-1,2-Dichloroethylene	13		"	10.0	2.6	109	76-125				
cis-1,3-Dichloropropylene	9.1		"	10.0	0.0	91.2	58-131				
Cyclohexane	5.1		"	10.0	0.0	51.3	70-130	Low Bias			
Dibromochloromethane	10		"	10.0	0.0	103	71-129				
Dibromomethane	9.9		"	10.0	0.0	99.3	76-120				
Dichlorodifluoromethane	14		"	10.0	0.0	142	30-147				
Ethyl Benzene	11		"	10.0	0.0	106	72-128				
Hexachlorobutadiene	6.4		"	10.0	0.0	63.5	34-166				
Isopropylbenzene	9.2		"	10.0	0.51	86.8	66-139				
Methyl acetate	10		"	10.0	0.0	104	10-200				
Methyl tert-butyl ether (MTBE)	11		"	10.0	0.0	113	75-128				
Methylcyclohexane	9.4		"	10.0	0.0	93.8	70-130				
Methylene chloride	12		"	10.0	0.0	122	57-128				
n-Butylbenzene	9.9		"	10.0	0.0	99.1	61-138				
n-Propylbenzene	9.7		"	10.0	0.0	97.4	66-134				
o-Xylene	10		"	10.0	0.0	104	69-126				
p- & m- Xylenes	22		"	20.0	0.0	108	67-130				
p-Isopropyltoluene	9.5		"	10.0	0.0	95.3	64-137				
sec-Butylbenzene	9.9		"	10.0	0.0	99.4	53-155				
Styrene	9.8		"	10.0	0.0	98.3	69-125				
tert-Butyl alcohol (TBA)	87		"	50.0	0.0	174	10-130	High Bias			
tert-Butylbenzene	8.4		"	10.0	0.0	84.4	65-139				
Tetrachloroethylene	8.5		"	10.0	0.0	84.7	64-139				
Toluene	9.7		"	10.0	0.0	97.2	76-123				
trans-1,2-Dichloroethylene	11		"	10.0	0.0	106	79-131				
trans-1,3-Dichloropropylene	9.6		"	10.0	0.0	95.6	55-130				
trans-1,4-dichloro-2-butene	9.7		"	10.0	0.0	96.6	25-155				
Trichloroethylene	9.7		"	10.0	0.0	97.4	53-145				
Trichlorofluoromethane	12		"	10.0	0.0	118	61-142				
Vinyl Chloride	12		"	10.0	2.4	95.9	31-165				
Surrogate: SURRE: 1,2-Dichloroethane-d4	12.4		"	10.0		124	69-130				
Surrogate: SURRE: Toluene-d8	9.58		"	10.0		95.8	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.46		"	10.0		94.6	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91215 - EPA 5030B											
Matrix Spike Dup (BJ91215-MSD1)		*Source sample: 19J0965-03 (Hanger E MW-3)				Prepared & Analyzed: 10/24/2019					
1,1,1,2-Tetrachloroethane	11		ug/L	10.0	0.0	106	45-161		2.50	30	
1,1,1-Trichloroethane	12		"	10.0	0.0	119	70-146		0.252	30	
1,1,2,2-Tetrachloroethane	10		"	10.0	0.0	103	74-121		1.76	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0	0.0	118	21-217		1.76	30	
1,1,2-Trichloroethane	9.8		"	10.0	0.0	98.2	59-146		0.305	30	
1,1-Dichloroethane	15		"	10.0	4.3	110	54-146		1.45	30	
1,1-Dichloroethylene	25		"	10.0	14	110	44-165		0.273	30	
1,2,3-Trichlorobenzene	8.4		"	10.0	0.0	84.5	40-161		6.73	30	
1,2,3-Trichloropropane	11		"	10.0	0.0	105	74-127		1.88	30	
1,2,4-Trichlorobenzene	8.0		"	10.0	0.0	80.3	41-161		0.499	30	
1,2,4-Trimethylbenzene	10		"	10.0	0.0	101	72-129		3.54	30	
1,2-Dibromo-3-chloropropane	12		"	10.0	0.0	116	31-151		0.951	30	
1,2-Dibromoethane	10		"	10.0	0.0	101	75-125		1.19	30	
1,2-Dichlorobenzene	9.8		"	10.0	0.0	97.5	63-122		0.103	30	
1,2-Dichloroethane	12		"	10.0	0.0	124	68-131		3.01	30	
1,2-Dichloropropane	9.5		"	10.0	0.0	95.2	77-121		3.31	30	
1,3,5-Trimethylbenzene	9.8		"	10.0	0.0	98.0	69-126		0.820	30	
1,3-Dichlorobenzene	9.3		"	10.0	0.0	93.0	74-119		1.08	30	
1,4-Dichlorobenzene	9.4		"	10.0	0.0	93.9	70-124		1.29	30	
1,4-Dioxane	450		"	210	120	160	10-310		2.98	30	
2-Butanone	8.4		"	10.0	0.70	76.9	10-193		9.89	30	
2-Hexanone	11		"	10.0	0.0	106	53-133		1.05	30	
4-Methyl-2-pentanone	11		"	10.0	0.0	108	38-150		0.0926	30	
Acetone	15		"	10.0	0.0	154	13-149	High Bias	9.53	30	
Acrolein	3.0		"	10.0	0.0	30.2	10-195		26.9	30	
Acrylonitrile	9.4		"	10.0	0.0	94.0	37-165		6.09	30	
Benzene	11		"	10.0	0.27	104	38-155		0.573	30	
Bromochloromethane	11		"	10.0	0.0	108	75-121		2.34	30	
Bromodichloromethane	11		"	10.0	0.0	107	70-129		3.23	30	
Bromoform	9.5		"	10.0	0.0	95.0	66-136		4.02	30	
Bromomethane	7.3		"	10.0	0.43	68.3	30-158		42.2	30	Non-dir.
Carbon disulfide	8.8		"	10.0	0.0	88.1	10-138		0.798	30	
Carbon tetrachloride	12		"	10.0	0.0	124	71-146		1.44	30	
Chlorobenzene	10		"	10.0	0.0	99.6	81-117		0.604	30	
Chloroethane	10		"	10.0	0.0	104	51-145		3.13	30	
Chloroform	11		"	10.0	0.0	112	80-124		0.179	30	
Chloromethane	8.8		"	10.0	0.0	87.5	16-163		19.6	30	
cis-1,2-Dichloroethylene	13		"	10.0	2.6	108	76-125		0.552	30	
cis-1,3-Dichloropropylene	9.1		"	10.0	0.0	91.2	58-131		0.00	30	
Cyclohexane	5.0		"	10.0	0.0	50.0	70-130	Low Bias	2.57	30	
Dibromochloromethane	10		"	10.0	0.0	104	71-129		0.675	30	
Dibromomethane	10		"	10.0	0.0	102	76-120		2.58	30	
Dichlorodifluoromethane	14		"	10.0	0.0	138	30-147		2.71	30	
Ethyl Benzene	11		"	10.0	0.0	107	72-128		1.32	30	
Hexachlorobutadiene	7.0		"	10.0	0.0	69.7	34-166		9.31	30	
Isopropylbenzene	9.4		"	10.0	0.51	88.9	66-139		2.39	30	
Methyl acetate	10		"	10.0	0.0	104	10-200		0.00	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0	0.0	110	75-128		2.61	30	
Methylcyclohexane	9.5		"	10.0	0.0	95.3	70-130		1.59	30	
Methylene chloride	12		"	10.0	0.0	119	57-128		2.82	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91215 - EPA 5030B

Matrix Spike Dup (BJ91215-MSD1)	*Source sample: 19J0965-03 (Hanger E MW-3)				Prepared & Analyzed: 10/24/2019						
n-Butylbenzene	9.8		ug/L	10.0	0.0	98.2	61-138		0.912	30	
n-Propylbenzene	9.9		"	10.0	0.0	98.8	66-134		1.43	30	
o-Xylene	11		"	10.0	0.0	106	69-126		2.58	30	
p- & m- Xylenes	22		"	20.0	0.0	109	67-130		1.25	30	
p-Isopropyltoluene	9.7		"	10.0	0.0	97.0	64-137		1.77	30	
sec-Butylbenzene	10		"	10.0	0.0	102	53-155		2.39	30	
Styrene	9.8		"	10.0	0.0	98.0	69-125		0.306	30	
tert-Butyl alcohol (TBA)	56		"	50.0	0.0	113	10-130		42.9	30	Non-dir.
tert-Butylbenzene	8.7		"	10.0	0.0	87.3	65-139		3.38	30	
Tetrachloroethylene	8.6		"	10.0	0.0	85.5	64-139		0.940	30	
Toluene	9.9		"	10.0	0.0	99.3	76-123		2.14	30	
trans-1,2-Dichloroethylene	11		"	10.0	0.0	106	79-131		0.660	30	
trans-1,3-Dichloropropylene	9.5		"	10.0	0.0	95.1	55-130		0.524	30	
trans-1,4-dichloro-2-butene	11		"	10.0	0.0	108	25-155		10.8	30	
Trichloroethylene	9.9		"	10.0	0.0	99.1	53-145		1.73	30	
Trichlorofluoromethane	12		"	10.0	0.0	124	61-142		5.53	30	
Vinyl Chloride	13		"	10.0	2.4	105	31-165		9.25	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	11.7		"	10.0		117	69-130				
Surrogate: SURRE: Toluene-d8	9.64		"	10.0		96.4	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.42		"	10.0		94.2	79-122				

Batch BJ91693 - EPA 5030B

Blank (BJ91693-BLK1)	Prepared: 10/28/2019 Analyzed: 10/29/2019										
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	0.46	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	0.65	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	

Batch BJ91693 - EPA 5030B

Blank (BJ91693-BLK1)

Prepared: 10/28/2019 Analyzed: 10/29/2019

Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	0.29	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	0.30	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
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Surrogate: SURR: 1,2-Dichloroethane-d4	11.0		"	10.0		110	69-130				
Surrogate: SURR: Toluene-d8	9.56		"	10.0		95.6	81-117				
Surrogate: SURR: p-Bromofluorobenzene	10.1		"	10.0		101	79-122				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
Batch BJ91693 - EPA 5030B										
LCS (BJ91693-BS1)										
Prepared & Analyzed: 10/28/2019										
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		103	82-126			
1,1,1-Trichloroethane	11		"	10.0		113	78-136			
1,1,2,2-Tetrachloroethane	11		"	10.0		106	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13		"	10.0		127	54-165			
1,1,2-Trichloroethane	10		"	10.0		104	82-123			
1,1-Dichloroethane	11		"	10.0		115	82-129			
1,1-Dichloroethylene	11		"	10.0		112	68-138			
1,2,3-Trichlorobenzene	9.3		"	10.0		93.2	76-136			
1,2,3-Trichloropropane	11		"	10.0		105	77-128			
1,2,4-Trichlorobenzene	8.5		"	10.0		84.8	76-137			
1,2,4-Trimethylbenzene	10		"	10.0		104	82-132			
1,2-Dibromo-3-chloropropane	10		"	10.0		104	45-147			
1,2-Dibromoethane	11		"	10.0		107	83-124			
1,2-Dichlorobenzene	10		"	10.0		103	79-123			
1,2-Dichloroethane	11		"	10.0		114	73-132			
1,2-Dichloropropane	10		"	10.0		102	78-126			
1,3,5-Trimethylbenzene	10		"	10.0		104	80-131			
1,3-Dichlorobenzene	10		"	10.0		103	86-122			
1,4-Dichlorobenzene	10		"	10.0		102	85-124			
1,4-Dioxane	390		"	210		188	10-349			
2-Butanone	12		"	10.0		125	49-152			
2-Hexanone	12		"	10.0		116	51-146			
4-Methyl-2-pentanone	11		"	10.0		108	57-145			
Acetone	14		"	10.0		140	14-150			
Acrolein	7.6		"	10.0		76.2	10-153			
Acrylonitrile	6.1		"	10.0		60.6	51-150			
Benzene	11		"	10.0		108	85-126			
Bromochloromethane	11		"	10.0		114	77-128			
Bromodichloromethane	10		"	10.0		103	79-128			
Bromoform	9.8		"	10.0		98.1	78-133			
Bromomethane	6.2		"	10.0		61.8	43-168			
Carbon disulfide	11		"	10.0		113	68-146			
Carbon tetrachloride	11		"	10.0		113	77-141			
Chlorobenzene	10		"	10.0		104	88-120			
Chloroethane	12		"	10.0		120	65-136			
Chloroform	11		"	10.0		115	82-128			
Chloromethane	6.4		"	10.0		63.9	43-155			
cis-1,2-Dichloroethylene	11		"	10.0		110	83-129			
cis-1,3-Dichloropropylene	9.9		"	10.0		99.3	80-131			
Cyclohexane	12		"	10.0		116	63-149			
Dibromochloromethane	10		"	10.0		104	80-130			
Dibromomethane	10		"	10.0		104	72-134			
Dichlorodifluoromethane	11		"	10.0		105	44-144			
Ethyl Benzene	11		"	10.0		108	80-131			
Hexachlorobutadiene	7.4		"	10.0		74.5	67-146			
Isopropylbenzene	10		"	10.0		104	76-140			
Methyl acetate	13		"	10.0		130	51-139			
Methyl tert-butyl ether (MTBE)	11		"	10.0		115	76-135			
Methylcyclohexane	11		"	10.0		115	72-143			
Methylene chloride	11		"	10.0		108	55-137			



Volatile Organic Compounds by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91693 - EPA 5030B

LCS (BJ91693-BS1)

Prepared & Analyzed: 10/28/2019

n-Butylbenzene	11		ug/L	10.0		110	79-132				
n-Propylbenzene	11		"	10.0		108	78-133				
o-Xylene	10		"	10.0		105	78-130				
p- & m- Xylenes	22		"	20.0		110	77-133				
p-Isopropyltoluene	10		"	10.0		104	81-136				
sec-Butylbenzene	10		"	10.0		105	79-137				
Styrene	10		"	10.0		105	67-132				
tert-Butyl alcohol (TBA)	13		"	50.0		26.6	25-162				
tert-Butylbenzene	10		"	10.0		104	77-138				
Tetrachloroethylene	10		"	10.0		104	82-131				
Toluene	10		"	10.0		101	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		111	80-132				
trans-1,3-Dichloropropylene	9.9		"	10.0		98.8	78-131				
trans-1,4-dichloro-2-butene	11		"	10.0		112	63-141				
Trichloroethylene	10		"	10.0		103	82-128				
Trichlorofluoromethane	12		"	10.0		122	67-139				
Vinyl Chloride	11		"	10.0		106	58-145				
Surrogate: SURRE: 1,2-Dichloroethane-d4	10.5		"	10.0		105	69-130				
Surrogate: SURRE: Toluene-d8	9.58		"	10.0		95.8	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.74		"	10.0		97.4	79-122				

LCS Dup (BJ91693-BS1)

Prepared: 10/28/2019 Analyzed: 10/29/2019

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		107	82-126		4.18	30	
1,1,1-Trichloroethane	11		"	10.0		110	78-136		2.42	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		112	76-129		5.96	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		117	54-165		8.05	30	
1,1,2-Trichloroethane	11		"	10.0		106	82-123		1.43	30	
1,1-Dichloroethane	11		"	10.0		113	82-129		1.76	30	
1,1-Dichloroethylene	10		"	10.0		104	68-138		7.28	30	
1,2,3-Trichlorobenzene	10		"	10.0		105	76-136		11.5	30	
1,2,3-Trichloropropane	11		"	10.0		109	77-128		3.36	30	
1,2,4-Trichlorobenzene	9.6		"	10.0		95.8	76-137		12.2	30	
1,2,4-Trimethylbenzene	11		"	10.0		105	82-132		0.573	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		104	45-147		0.192	30	
1,2-Dibromoethane	11		"	10.0		110	83-124		2.86	30	
1,2-Dichlorobenzene	11		"	10.0		106	79-123		3.35	30	
1,2-Dichloroethane	12		"	10.0		121	73-132		5.63	30	
1,2-Dichloropropane	10		"	10.0		102	78-126		0.393	30	
1,3,5-Trimethylbenzene	10		"	10.0		104	80-131		0.193	30	
1,3-Dichlorobenzene	10		"	10.0		102	86-122		0.195	30	
1,4-Dichlorobenzene	10		"	10.0		103	85-124		1.47	30	
1,4-Dioxane	410		"	210		193	10-349		2.65	30	
2-Butanone	11		"	10.0		107	49-152		15.5	30	
2-Hexanone	11		"	10.0		114	51-146		2.17	30	
4-Methyl-2-pentanone	11		"	10.0		115	57-145		6.12	30	
Acetone	11		"	10.0		112	14-150		22.0	30	
Acrolein	3.5		"	10.0		35.0	10-153		74.1	30	Non-dir.
Acrylonitrile	12		"	10.0		124	51-150		68.8	30	Non-dir.
Benzene	11		"	10.0		112	85-126		3.72	30	
Bromochloromethane	12		"	10.0		116	77-128		1.13	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91693 - EPA 5030B

LCS Dup (BJ91693-BSD1)

Prepared: 10/28/2019 Analyzed: 10/29/2019

Bromodichloromethane	10		ug/L	10.0		104	79-128		0.775	30	
Bromoform	10		"	10.0		101	78-133		2.91	30	
Bromomethane	6.1		"	10.0		60.6	43-168		1.96	30	
Carbon disulfide	9.2		"	10.0		92.4	68-146		19.9	30	
Carbon tetrachloride	11		"	10.0		112	77-141		0.890	30	
Chlorobenzene	11		"	10.0		105	88-120		0.858	30	
Chloroethane	11		"	10.0		110	65-136		8.61	30	
Chloroform	12		"	10.0		116	82-128		0.867	30	
Chloromethane	5.5		"	10.0		54.7	43-155		15.5	30	
cis-1,2-Dichloroethylene	11		"	10.0		112	83-129		1.35	30	
cis-1,3-Dichloropropylene	9.9		"	10.0		99.1	80-131		0.202	30	
Cyclohexane	5.0		"	10.0		50.5	63-149	Low Bias	78.5	30	Non-dir.
Dibromochloromethane	11		"	10.0		105	80-130		1.05	30	
Dibromomethane	11		"	10.0		108	72-134		2.92	30	
Dichlorodifluoromethane	9.8		"	10.0		97.6	44-144		7.40	30	
Ethyl Benzene	11		"	10.0		109	80-131		1.47	30	
Hexachlorobutadiene	8.3		"	10.0		82.8	67-146		10.6	30	
Isopropylbenzene	10		"	10.0		102	76-140		2.81	30	
Methyl acetate	12		"	10.0		125	51-139		4.08	30	
Methyl tert-butyl ether (MTBE)	12		"	10.0		122	76-135		6.50	30	
Methylcyclohexane	10		"	10.0		101	72-143		13.2	30	
Methylene chloride	12		"	10.0		121	55-137		11.4	30	
n-Butylbenzene	11		"	10.0		111	79-132		1.18	30	
n-Propylbenzene	10		"	10.0		104	78-133		2.83	30	
o-Xylene	11		"	10.0		107	78-130		1.51	30	
p- & m- Xylenes	22		"	20.0		110	77-133		0.136	30	
p-Isopropyltoluene	11		"	10.0		107	81-136		3.22	30	
sec-Butylbenzene	11		"	10.0		110	79-137		5.11	30	
Styrene	11		"	10.0		108	67-132		3.10	30	
tert-Butyl alcohol (TBA)	62		"	50.0		125	25-162		130	30	Non-dir.
tert-Butylbenzene	9.1		"	10.0		90.7	77-138		13.2	30	
Tetrachloroethylene	9.0		"	10.0		89.7	82-131		15.0	30	
Toluene	10		"	10.0		104	80-127		2.15	30	
trans-1,2-Dichloroethylene	11		"	10.0		107	80-132		3.58	30	
trans-1,3-Dichloropropylene	10		"	10.0		100	78-131		1.61	30	
trans-1,4-dichloro-2-butene	11		"	10.0		108	63-141		3.28	30	
Trichloroethylene	9.7		"	10.0		97.0	82-128		6.29	30	
Trichlorofluoromethane	11		"	10.0		114	67-139		6.88	30	
Vinyl Chloride	9.0		"	10.0		89.5	58-145		16.7	30	
Surrogate: SURRE: 1,2-Dichloroethane-d4	10.8		"	10.0		108	69-130				
Surrogate: SURRE: Toluene-d8	9.50		"	10.0		95.0	81-117				
Surrogate: SURRE: p-Bromofluorobenzene	9.64		"	10.0		96.4	79-122				



Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91641 - EPA 3535A											
Blank (BJ91641-BLK1)											Prepared & Analyzed: 10/28/2019
1,4-Dioxane	ND	0.200	ug/L								
<i>Surrogate: 1,4-Dioxane-d8</i>	4.00		"	5.00		80.0	50-130				
LCS (BJ91641-BS1)											Prepared & Analyzed: 10/28/2019
1,4-Dioxane	5.00	0.200	ug/L	5.00		100	50-130				
<i>Surrogate: 1,4-Dioxane-d8</i>	3.20		"	5.00		64.0	50-130				
Matrix Spike (BJ91641-MS1)											*Source sample: 19J0965-03 (Hanger E MW-3) Prepared & Analyzed: 10/28/2019
1,4-Dioxane	23.1	0.200	ug/L	5.00	17.2	117	50-130				
<i>Surrogate: 1,4-Dioxane-d8</i>	2.60		"	5.00		52.0	50-130				
Matrix Spike Dup (BJ91641-MSD1)											*Source sample: 19J0965-03 (Hanger E MW-3) Prepared & Analyzed: 10/28/2019
1,4-Dioxane	21.4	0.200	ug/L	5.00	17.2	84.0	50-130		7.46	30	
<i>Surrogate: 1,4-Dioxane-d8</i>	2.80		"	5.00		56.0	50-130				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91651 - SPE Ext-PFAS-EPA 537.1M

Blank (BJ91651-BLK1)

Prepared: 10/28/2019 Analyzed: 10/29/2019

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	ng/L								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
N-EtFOSAA	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTTrDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Surrogate: M3PFBS	65.8		"	74.3		88.5	25-150				
Surrogate: M5PFHxA	66.1		"	80.0		82.6	25-150				
Surrogate: M4PFHpA	75.9		"	80.0		94.9	25-150				
Surrogate: M3PFHxS	61.2		"	75.7		80.9	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	67.8		"	80.0		84.8	25-150				
Surrogate: M6PFDA	70.3		"	80.0		87.9	25-150				
Surrogate: M7PFUdA	60.2		"	80.0		75.3	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	54.6		"	80.0		68.2	25-150				
Surrogate: M2PFTeDA	39.3		"	80.0		49.1	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	65.7		"	80.0		82.1	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	64.8		"	76.6		84.7	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	68.1		"	80.0		85.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	62.0		"	80.0		77.6	10-150				
Surrogate: d3-N-MeFOSAA	73.4		"	80.0		91.8	25-150				
Surrogate: d5-N-EtFOSAA	80.7		"	80.0		101	25-150				
Surrogate: M2-6:2 FTS	79.0		"	75.9		104	25-150				
Surrogate: M2-8:2 FTS	99.8		"	76.6		130	25-150				
Surrogate: M9PFNA	65.2		"	80.0		81.5	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91651 - SPE Ext-PFAS-EPA 537.1M

LCS (BJ91651-BS1)

Prepared: 10/28/2019 Analyzed: 10/29/2019

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	81.6	2.00	ng/L	76.8		106	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	76.2	5.00	"	76.0		100	50-130				
N-EtFOSAA	80.7	2.00	"	80.0		101	50-130				
N-MeFOSAA	81.8	2.00	"	80.0		102	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	76.8	2.00	"	77.2		99.4	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	85.1	2.00	"	79.6		107	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	82.8	2.00	"	80.0		103	50-130				
Perfluorobutanesulfonic acid (PFBS)	77.1	2.00	"	70.8		109	50-130				
Perfluorodecanoic acid (PFDA)	73.0	2.00	"	80.0		91.3	50-130				
Perfluorododecanoic acid (PFDoA)	78.8	2.00	"	80.0		98.4	50-130				
Perfluoroheptanoic acid (PFHpA)	65.8	2.00	"	80.0		82.2	50-130				
Perfluorohexanesulfonic acid (PFHxS)	66.2	2.00	"	59.2		112	50-130				
Perfluorohexanoic acid (PFHxA)	82.5	2.00	"	80.0		103	50-130				
Perfluoro-n-butanoic acid (PFBA)	82.5	2.00	"	80.0		103	50-130				
Perfluorononanoic acid (PFNA)	85.0	2.00	"	76.8		111	50-130				
Perfluorooctanesulfonic acid (PFOS)	63.2	2.00	"	58.4		108	50-130				
Perfluorooctanoic acid (PFOA)	82.9	2.00	"	80.0		104	50-130				
Perfluoropentanoic acid (PFPeA)	82.2	2.00	"	80.0		103	50-130				
Perfluorotetradecanoic acid (PFTA)	89.1	2.00	"	80.0		111	50-130				
Perfluorotridecanoic acid (PFTTrDA)	68.3	2.00	"	80.0		85.3	50-130				
Perfluoroundecanoic acid (PFUnA)	91.8	2.00	"	80.0		115	50-130				
Surrogate: M3PFBS	55.0		"	74.3		74.0	25-150				
Surrogate: M5PFHxA	56.0		"	80.0		70.0	25-150				
Surrogate: M4PFHpA	74.6		"	80.0		93.3	25-150				
Surrogate: M3PFHxS	53.6		"	75.7		70.9	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	59.1		"	80.0		73.9	25-150				
Surrogate: M6PFDA	61.2		"	80.0		76.5	25-150				
Surrogate: M7PFUdA	50.0		"	80.0		62.5	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	49.4		"	80.0		61.8	25-150				
Surrogate: M2PFTeDA	40.5		"	80.0		50.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	61.9		"	80.0		77.4	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	57.6		"	76.6		75.2	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	59.5		"	80.0		74.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	53.9		"	80.0		67.4	10-150				
Surrogate: d3-N-MeFOSAA	70.8		"	80.0		88.5	25-150				
Surrogate: d5-N-EtFOSAA	68.1		"	80.0		85.2	25-150				
Surrogate: M2-6:2 FTS	78.5		"	75.9		103	25-150				
Surrogate: M2-8:2 FTS	71.0		"	76.6		92.6	25-150				
Surrogate: M9PFNA	56.9		"	80.0		71.1	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ91651 - SPE Ext-PFAS-EPA 537.1M

Matrix Spike (BJ91651-MS1)	*Source sample: 19J0965-03 (Hanger E MW-3)						Prepared: 10/28/2019 Analyzed: 10/30/2019	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	229	10.0	ng/L	76.8	136	121	25-150	
N-EtFOSAA	80.3	10.0	"	80.0	ND	100	25-150	
N-MeFOSAA	80.2	10.0	"	80.0	ND	100	25-150	
Perfluoro-1-decanesulfonic acid (PFDS)	60.8	10.0	"	77.2	ND	78.7	25-150	
Perfluoro-1-heptanesulfonic acid (PFHpS)	92.1	10.0	"	79.6	ND	116	25-150	
Perfluoro-1-octanesulfonamide (FOSA)	80.7	10.0	"	80.0	ND	101	25-150	
Perfluorobutanesulfonic acid (PFBS)	79.6	10.0	"	70.8	3.29	108	25-150	
Perfluorodecanoic acid (PFDA)	78.1	10.0	"	80.0	4.28	92.3	25-150	
Perfluorododecanoic acid (PFDoA)	89.3	10.0	"	80.0	ND	112	25-150	
Perfluoroheptanoic acid (PFHpA)	361	10.0	"	80.0	301	75.8	25-150	
Perfluorohexanesulfonic acid (PFHxS)	88.0	10.0	"	59.2	11.0	130	25-150	
Perfluorohexanoic acid (PFHxA)	500	10.0	"	80.0	420	100	25-150	
Perfluoro-n-butanoic acid (PFBA)	263	10.0	"	80.0	188	93.5	25-150	
Perfluorononanoic acid (PFNA)	118	10.0	"	76.8	32.6	111	25-150	
Perfluorooctanesulfonic acid (PFOS)	129	10.0	"	58.4	43.3	147	25-150	
Perfluorooctanoic acid (PFOA)	322	10.0	"	80.0	240	103	25-150	
Perfluorotetradecanoic acid (PFTA)	86.4	10.0	"	80.0	ND	108	25-150	
Perfluorotridecanoic acid (PFTTrDA)	61.5	10.0	"	80.0	ND	76.9	25-150	
Perfluoroundecanoic acid (PFUnA)	86.6	10.0	"	80.0	ND	108	25-150	
Surrogate: M3PFBS	66.7		"	74.3		89.8	25-150	
Surrogate: M5PFHxA	62.2		"	80.0		77.7	25-150	
Surrogate: M4PFHpA	78.9		"	80.0		98.6	25-150	
Surrogate: M3PFHxS	69.2		"	75.7		91.5	25-150	
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	65.1		"	80.0		81.4	25-150	
Surrogate: M6PFDA	60.4		"	80.0		75.5	25-150	
Surrogate: M7PFUdA	50.9		"	80.0		63.6	25-150	
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	39.3		"	80.0		49.1	25-150	
Surrogate: M2PFTeDA	19.3		"	80.0		24.2	10-150	
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	72.2		"	80.0		90.3	25-150	
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	66.0		"	76.6		86.3	25-150	
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	42.2		"	80.0		52.8	10-150	
Surrogate: d3-N-MeFOSAA	62.3		"	80.0		77.9	25-150	
Surrogate: d5-N-EtFOSAA	64.6		"	80.0		80.8	25-150	
Surrogate: M2-8:2 FTS	90.1		"	76.6		118	25-150	
Surrogate: M9PFNA	63.0		"	80.0		78.8	25-150	



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91651 - SPE Ext-PFAS-EPA 537.1M											
Matrix Spike (BJ91651-MS2)		*Source sample: 19J0965-03 (Hanger E MW-3)					Prepared: 10/28/2019 Analyzed: 10/30/2019				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	658	100	ng/L	76.0	641	22.6	25-150	Low Bias			
Perfluoropentanoic acid (PFPeA)	1000	40.0	"	80.0	958	56.9	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	69.4		"	80.0		86.7	25-150				
Surrogate: M2-6:2 FTS	159		"	75.9		210	25-150				
Matrix Spike Dup (BJ91651-MSD1)		*Source sample: 19J0965-03 (Hanger E MW-3)					Prepared: 10/28/2019 Analyzed: 10/30/2019				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	243	10.0	ng/L	76.8	136	140	25-150		6.07	35	
N-EtFOSAA	78.7	10.0	"	80.0	ND	98.4	25-150		2.04	35	
N-MeFOSAA	84.8	10.0	"	80.0	ND	106	25-150		5.51	35	
Perfluoro-1-decanesulfonic acid (PFDS)	72.2	10.0	"	77.2	ND	93.5	25-150		17.2	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	92.2	10.0	"	79.6	ND	116	25-150		0.103	35	
Perfluoro-1-octanesulfonamide (FOSA)	82.7	10.0	"	80.0	ND	103	25-150		2.43	35	
Perfluorobutanesulfonic acid (PFBS)	81.4	10.0	"	70.8	3.29	110	25-150		2.23	35	
Perfluorodecanoic acid (PFDA)	86.2	10.0	"	80.0	4.28	102	25-150		9.83	35	
Perfluorododecanoic acid (PFDoA)	80.5	10.0	"	80.0	ND	101	25-150		10.3	35	
Perfluoroheptanoic acid (PFHpA)	365	10.0	"	80.0	301	80.9	25-150		1.13	35	
Perfluorohexanesulfonic acid (PFHxS)	90.0	10.0	"	59.2	11.0	133	25-150		2.22	35	
Perfluorohexanoic acid (PFHxA)	480	10.0	"	80.0	420	75.7	25-150		4.03	35	
Perfluoro-n-butanoic acid (PFBA)	269	10.0	"	80.0	188	101	25-150		2.40	35	
Perfluorononanoic acid (PFNA)	106	10.0	"	76.8	32.6	95.2	25-150		10.9	35	
Perfluorooctanesulfonic acid (PFOS)	135	10.0	"	58.4	43.3	158	25-150	High Bias	4.98	35	
Perfluorooctanoic acid (PFOA)	315	10.0	"	80.0	240	93.9	25-150		2.33	35	
Perfluorotetradecanoic acid (PFTA)	86.1	10.0	"	80.0	ND	108	25-150		0.288	35	
Perfluorotridecanoic acid (PFTriDA)	66.1	10.0	"	80.0	ND	82.6	25-150		7.17	35	
Perfluoroundecanoic acid (PFUnA)	77.4	10.0	"	80.0	ND	96.8	25-150		11.2	35	
Surrogate: M3PFBS	67.9		"	74.3		91.4	25-150				
Surrogate: M5PFHxA	65.7		"	80.0		82.1	25-150				
Surrogate: M4PFHpA	81.8		"	80.0		102	25-150				
Surrogate: M3PFHxS	69.5		"	75.7		91.8	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	67.0		"	80.0		83.7	25-150				
Surrogate: M6PFDA	60.9		"	80.0		76.1	25-150				
Surrogate: M7PFUdA	54.9		"	80.0		68.6	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	50.3		"	80.0		62.8	25-150				
Surrogate: M2PFTeDA	40.3		"	80.0		50.3	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	71.6		"	80.0		89.5	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	66.6		"	76.6		86.9	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	33.7		"	80.0		42.1	10-150				
Surrogate: d3-N-MeFOSAA	66.2		"	80.0		82.8	25-150				
Surrogate: d5-N-EtFOSAA	71.2		"	80.0		89.0	25-150				
Surrogate: M2-8:2 FTS	92.2		"	76.6		120	25-150				
Surrogate: M9PFNA	69.0		"	80.0		86.2	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result		Limits		Limit			
Batch BJ91651 - SPE Ext-PFAS-EPA 537.1M												
Matrix Spike Dup (BJ91651-MSD2)		*Source sample: 19J0965-03 (Hanger E MW-3)						Prepared: 10/28/2019 Analyzed: 10/30/2019				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	659	100	ng/L	76.0	641	23.8	25-150	Low Bias	0.136		35	
Perfluoropentanoic acid (PFPeA)	1030	40.0	"	80.0	958	92.7	25-150		2.81		35	
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	66.6		"	80.0		83.2	25-150					
Surrogate: M2-6:2 FTS	154		"	75.9		203	25-150					



Gas Chromatography/Flame Ionization Detector - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result	Limits	Limit				

Batch BJ91319 - Preparation for GC Analysis

Blank (BJ91319-BLK1)

Prepared: 10/22/2019 Analyzed: 10/23/2019

Ethylene Glycol	ND	10.0	mg/L								
Propylene Glycol	ND	10.0	"								
<i>Surrogate: 1,4-Butanediol</i>	<i>46.8</i>		<i>"</i>	<i>50.0</i>		<i>93.6</i>	<i>30-130</i>				

LCS (BJ91319-BS1)

Prepared: 10/22/2019 Analyzed: 10/23/2019

Ethylene Glycol	46.2	10.0	mg/L	50.0		92.5	60-140				
Propylene Glycol	46.0	10.0	"	50.0		92.0	60-140				
<i>Surrogate: 1,4-Butanediol</i>	<i>47.4</i>		<i>"</i>	<i>50.0</i>		<i>94.8</i>	<i>30-130</i>				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19J0965-01	Hanger E MW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-02	Hanger E MW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-03	Hanger E MW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-04	Hanger E MW-4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-05	FMW-40	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-06	FMW-31	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-07	FMW-35	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-09	FMW-12	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-11	FMW-11	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-12	Field Duplicate	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-13	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J0965-14	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PF-CCV-L	The CCV recovery was slightly below acceptable limits for the qualified compound. However, sample results are not biased low because results are corrected for isotope recovery.
A-01	This compound was analyzed at a 20x dilution due to the calibration exceedance caused when the matrix spike standard was added to the parent sample.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
S1-DIOX	The isotope recovered below control limits due to sample matrix. The recovery was greater than 10% and isotope dilution was applied to the native 1,4-Dioxane.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported



- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to correct the 1,4-Dioxane results.



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Field Chain-of-Custody Record

YORK Project No.
 19J0965

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 2 of 2

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time																																									
Company:	WSP USA	Company:		Company:		YOUR Project Name		RUSH - Next Day																																									
Address:	4 Westchester Park Dr White Plains, NY 10604	Address:		Address:		Westchester County Airport (WCA)		RUSH - Two Day																																									
Phone:	914 694 5711	Phone:	SAME	Phone:	SAME			RUSH - Three Day																																									
Contact:	John Benvegna	Contact:		Contact:				RUSH - Four Day																																									
E-mail:	John.Benvegna@wsp.com	E-mail:		E-mail:		YOUR PO#: 31402218.000		Standard (5-7 Day)	X																																								
<p>Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.</p> <p>Samples Collected by: (print your name above and sign below) Mike Reiff</p>																																																	
<table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Sample Matrix</th> <th>Date/Time Sampled</th> <th>Analysis Requested</th> <th>Container Description</th> </tr> </thead> <tbody> <tr> <td>BRMW-2</td> <td>GW</td> <td>10/21/19 1340</td> <td>EPA 537 8260 Full</td> <td>1,4 Dioxane Glycols</td> </tr> <tr> <td>FMW-11</td> <td>GW</td> <td>10/21/19 1355</td> <td>X</td> <td>2 Plastics</td> </tr> <tr> <td>Hanger E MW-3 Matrix Spike</td> <td>GW</td> <td>10/21/19 1040</td> <td>X</td> <td>3 VOCs</td> </tr> <tr> <td>Hanger E MW-3 Matrix Spike Duplicate</td> <td>GW</td> <td>10/21/19 1040</td> <td>X</td> <td>3 VOCs, 14 PCBs</td> </tr> <tr> <td>Field Duplicate</td> <td>GW</td> <td>10/21/19 1400</td> <td>X</td> <td>5 VOCs, 14 PCBs</td> </tr> <tr> <td>Field Blank</td> <td>DF</td> <td></td> <td>X</td> <td>17 PCBs, 3 VOCs, 14 PCBs</td> </tr> <tr> <td>TRIP Blank</td> <td>DF</td> <td></td> <td>X</td> <td>2 VOCs</td> </tr> </tbody> </table>										Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description	BRMW-2	GW	10/21/19 1340	EPA 537 8260 Full	1,4 Dioxane Glycols	FMW-11	GW	10/21/19 1355	X	2 Plastics	Hanger E MW-3 Matrix Spike	GW	10/21/19 1040	X	3 VOCs	Hanger E MW-3 Matrix Spike Duplicate	GW	10/21/19 1040	X	3 VOCs, 14 PCBs	Field Duplicate	GW	10/21/19 1400	X	5 VOCs, 14 PCBs	Field Blank	DF		X	17 PCBs, 3 VOCs, 14 PCBs	TRIP Blank	DF		X	2 VOCs
Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description																																													
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Hanger E MW-3 Matrix Spike Duplicate	GW	10/21/19 1040	X	3 VOCs, 14 PCBs																																													
Field Duplicate	GW	10/21/19 1400	X	5 VOCs, 14 PCBs																																													
Field Blank	DF		X	17 PCBs, 3 VOCs, 14 PCBs																																													
TRIP Blank	DF		X	2 VOCs																																													
<p>Report / EDD Type (circle selections)</p> <p>Summary Report <input type="checkbox"/> CT RCP <input type="checkbox"/> Standard Excel EDD <input type="checkbox"/></p> <p>QA Report <input type="checkbox"/> CT RCP DQA/DUE <input type="checkbox"/> EQUIS (Standard) <input type="checkbox"/></p> <p>NY ASP A Package <input type="checkbox"/> NJDEP Reduced Deliverables <input type="checkbox"/> NYSDEC EQUIS <input type="checkbox"/></p> <p>NY ASP B Package <input type="checkbox"/> NJDKQP <input type="checkbox"/> NJDEP SRP HazSite Other: <input type="checkbox"/></p>																																																	
<p>Preservation: (check all that apply)</p> <p>HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/></p> <p>Ascorbic Acid <input type="checkbox"/> Other: <input type="checkbox"/></p>																																																	
<p>Comments:</p>																																																	
Samples Relinquished by / Company		Date/Time		Samples Relinquished by / Company		Date/Time		Special Instruction																																									
[Signature]		10/21/19 1500		Chinc		10/22/19 1525		Field Filtered Lab to Filter																																									
Received by / Company		Date/Time		Samples Received by / Company		Date/Time																																											
[Signature]		10/21/19 1500		Chinc		10/22/19 1525																																											
Relinquished by / Company		Date/Time		Samples Received in LAB by		Date/Time		Temp. Received at Lab																																									
[Signature]		10/21/19 1500		TC Hinkle		10/22/19 1525		1.6																																									