

Jan. 20, 2021

DRI 352-M4 MVRHS Athletic Fields

Note from MVC staff:

The following is a preliminary report on the laboratory testing organized in 2020 by MVC consultant Tetra Tech and conducted by Alpha Analytical, with revisions to the report based on comments from MVC consultant Horsley Witten in January. These are the preliminary results for phase 1 of the testing, with phase 2 (additional testing for PFAS) still underway as of Jan. 20. Once phase 2 is complete, Horsley Witten and Tetra Tech will each provide a final report on the data. The testing protocols as developed by Tetra Tech are available [here](#).



ANALYTICAL REPORT

Lab Number:	L2052415
Client:	Tetra Tech Rizzo Marlborough Technology Park 100 Nickerson Road Marlborough, MA 01752
ATTN:	Ron Myrick
Phone:	(508) 786-2200
Project Name:	MVC TURF
Project Number:	143-319629-21001
Report Date:	01/07/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2052415-01	GREENFIELD TURF	SOLID	EDGARTOWN, MA	11/24/20 08:45	11/24/20
L2052415-02	BROCK SHOCK PAD	SOLID	EDGARTOWN, MA	11/24/20 09:15	11/24/20
L2052415-03	BROCK FILL	SOLID	EDGARTOWN, MA	11/24/20 09:30	11/24/20
L2052415-04	REYNOLDS 775 GLUE	SOLID	EDGARTOWN, MA	11/24/20 09:45	11/24/20
L2052415-05	MAPEI ULTRA BOND	SOLID	EDGARTOWN, MA	11/24/20 10:30	11/24/20

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MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	NO
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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Case Narrative (continued)

Report Revision

January 07, 2021: All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

January 05, 2021: At the client's request, Benzyl Alcohol by SW-846 8270D is reported on L2052415-03. Additionally, the extraneous SPLP Zinc results reported on L2052415-01 through -04 have been removed.

Report Submission

December 29, 2020: This final report includes the results of all requested analyses.

December 22, 2020: This is a preliminary report.

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Total Metals.

Semivolatile Organics

L2052415-01, -02, and -03: The sample has elevated detection limits due to limited sample volume available for analysis.

L2052415-04: The sample has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.

L2052415-05: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

In reference to question A:

L2052415-01 through -05 were extracted with the method required holding time exceeded.

In reference to question H:

L2052415-04: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%), and 4-terphenyl-d14 (0%)

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Case Narrative (continued)

due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Hexavalent Chromium

LCS SRM Lot#: ERA D107-921

L2052415-01 through -04: The sample has an elevated detection limit due to the dilution required by the sample matrix.

In reference to question G:

L2052415-01 through -04: One or more of the target analytes did not achieve the requested CAM reporting limits.

Non-MCP Related Narratives

SPLP Semivolatiles

L2052415-02 was extracted with the method required holding time exceeded.

The WG1447256-2/-3 LCS/LCSD recoveries, associated with L2052415-02, are below the acceptance criteria for benzidine (8%/0%), aniline (22%/6%) and pyridine (LCSD 8%); however, they have been identified as "difficult" analytes. The results of the associated samples are reported.

The WG1447256-2/-3 LCS/LCSD recoveries, associated with L2052415-02, are below the individual acceptance criteria for 4-chloroaniline (30%/21%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG1445550-2/-3 LCS/LCSD RPD, associated with L2052415-01, -03, and -04, are above the acceptance criteria for benzidine (33%).

The WG1447256-2/-3 LCS/LCSD RPDs, associated with L2052415-02, are above the acceptance criteria for aniline (114%), 4-chloroaniline (35%) and pyridine (60%).

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Case Narrative (continued)

Perfluorinated Alkyl Acids by Isotope Dilution

L2052415-01, -02, -03, and -05: The sample has elevated detection limits due to the limited sample weight utilized during extraction, as required by the sample matrix.

L2052415-01, -03, -04, -05, WG1442230-4, and WG1442230-5: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The WG1442230-2/-3 LCS/LCSD recoveries, associated with L2052415-01 through -05, are above the acceptance criteria for 1h,1h,2h,2h-perfluorohexanesulfonic acid (4:2fts) (166%/170%), 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2fts) (148%/148%), perfluorononanesulfonic acid (pfns) (131%/135%), perfluorodecanesulfonic acid (pfd) (138%/142%), and perfluorotetradecanoic acid (pfta) (163%/161%); however, the associated samples are non-detect to the RL for these target analytes. The results of the original analysis are reported.

The WG1442230-4 MS recoveries, performed on L2052415-03, are outside the acceptance criteria for 1h,1h,2h,2h-perfluorohexanesulfonic acid (4:2fts) (168%), perfluoropentanesulfonic acid (pfps) (125%), and perfluorotetradecanoic acid (pfta) (163%).

SPLP Perfluorinated Alkyl Acids by Isotope Dilution

L2052415-01 and -02 was extracted with the method required holding time exceeded.

L2052415-01, -03, -04, WG1444345-4, WG1444345-5 and WG1446532-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The WG1444345-4 MS recovery, performed on L2052415-03, is outside the acceptance criteria for perfluorobutanoic acid (pfba) (155%).

The WG1446532-1 Method Blank, associated with L2052415-01 and -02, has a concentration above the reporting limit for PFOA. Since the sample(s) were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

WG1444345-6: This blank represents the SPLP tumbling blank associated with L2052415-03 and -04.

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Case Narrative (continued)

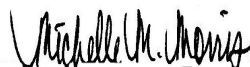
WG1446532-6: This blank represents the SPLP tumbling blank associated with L2052415-01 and -02.

SPLP Metals

The WG1445852-2 LCS recovery, associated with L2052415-01 through -04, was outside the acceptance criteria for zinc (126%); however, re-digestion achieved a similar result. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 01/07/21

QC OUTLIER SUMMARY REPORT

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Semivolatile Organics - Westborough Lab								
8270D	REYNOLDS 775 GLUE	L2052415-04 D	2-Fluorophenol	Surrogate	0	30-130	-	-- not applicable --
8270D	REYNOLDS 775 GLUE	L2052415-04 D	Phenol-d6	Surrogate	0	30-130	-	-- not applicable --
8270D	REYNOLDS 775 GLUE	L2052415-04 D	Nitrobenzene-d5	Surrogate	0	30-130	-	-- not applicable --
8270D	REYNOLDS 775 GLUE	L2052415-04 D	2-Fluorobiphenyl	Surrogate	0	30-130	-	-- not applicable --
8270D	REYNOLDS 775 GLUE	L2052415-04 D	2,4,6-Tribromophenol	Surrogate	0	30-130	-	-- not applicable --
8270D	REYNOLDS 775 GLUE	L2052415-04 D	4-Terphenyl-d14	Surrogate	0	30-130	-	-- not applicable --
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab								
LCMSMS-ID	Batch QC	WG1442230-2	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	LCS	166	62-145	01-05	potential high bias
LCMSMS-ID	Batch QC	WG1442230-2	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	LCS	148	65-137	01-05	potential high bias
LCMSMS-ID	Batch QC	WG1442230-2	Perfluorononanesulfonic Acid (PFNS)	LCS	131	69-125	01-05	potential high bias
LCMSMS-ID	Batch QC	WG1442230-2	Perfluorodecanesulfonic Acid (PFDS)	LCS	138	59-134	01-05	potential high bias
LCMSMS-ID	Batch QC	WG1442230-2	Perfluorotetradecanoic Acid (PFTA)	LCS	163	69-133	01-05	potential high bias
LCMSMS-ID	Batch QC	WG1442230-3	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	LCSD	170	62-145	01-05	potential high bias
LCMSMS-ID	Batch QC	WG1442230-3	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	LCSD	148	65-137	01-05	potential high bias
LCMSMS-ID	Batch QC	WG1442230-3	Perfluorononanesulfonic Acid (PFNS)	LCSD	135	69-125	01-05	potential high bias
LCMSMS-ID	Batch QC	WG1442230-3	Perfluorodecanesulfonic Acid (PFDS)	LCSD	142	59-134	01-05	potential high bias
LCMSMS-ID	Batch QC	WG1442230-3	Perfluorotetradecanoic Acid (PFTA)	LCSD	161	69-133	01-05	potential high bias
LCMSMS-ID	Batch QC (L2052415-03)	WG1442230-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	MS	168	62-145	01-05	potential high bias
LCMSMS-ID	Batch QC (L2052415-03)	WG1442230-4	Perfluoropentanesulfonic Acid (PFPeS)	MS	125	73-123	01-05	potential high bias
LCMSMS-ID	Batch QC (L2052415-03)	WG1442230-4	Perfluorotetradecanoic Acid (PFTA)	MS	163	69-133	01-05	potential high bias
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab								
LCMSMS-ID	Batch QC (L2052415-03)	WG1444345-4	Perfluorobutanoic Acid (PFBA)	MS	155	67-148	03-04	potential high bias
SPLP Semivolatiles by EPA 1312 - Westborough Lab								
8270D	Batch QC	WG1445550-3	Benzidine	LCSD	33	30	01,03-04	non-directional bias
8270D	Batch QC	WG1447256-2	Benzidine	LCS	8	10-75	02	potential low bias
8270D	Batch QC	WG1447256-2	Aniline	LCS	22	40-140	02	potential low bias
8270D	Batch QC	WG1447256-2	4-Chloroaniline	LCS	30	40-140	02	potential low bias
8270D	Batch QC	WG1447256-3	Benzidine	LCSD	0	10-75	02	potential low bias

QC OUTLIER SUMMARY REPORT

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Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8270D	Batch QC	WG1447256-3	Aniline	LCSD	6	40-140	02	potential low bias
8270D	Batch QC	WG1447256-3	Aniline	LCSD	114	30	02	non-directional bias
8270D	Batch QC	WG1447256-3	4-Chloroaniline	LCSD	21	40-140	02	potential low bias
8270D	Batch QC	WG1447256-3	4-Chloroaniline	LCSD	35	30	02	non-directional bias
8270D	Batch QC	WG1447256-3	Pyridine	LCSD	8	10-66	02	potential low bias
8270D	Batch QC	WG1447256-3	Pyridine	LCSD	60	30	02	non-directional bias
8270D	Batch QC	WG1448815-2	Benzidine	LCS	4	10-75	05	potential low bias
8270D	Batch QC	WG1448815-2	Aniline	LCS	21	40-140	05	potential low bias
8270D	Batch QC	WG1448815-2	4-Chloroaniline	LCS	39	40-140	05	potential low bias
8270D	Batch QC	WG1448815-3	Benzidine	LCSD	2	10-75	05	potential low bias
8270D	Batch QC	WG1448815-3	Benzidine	LCSD	87	30	05	non-directional bias
8270D	Batch QC	WG1448815-3	Aniline	LCSD	16	40-140	05	potential low bias
8270D	Batch QC	WG1448815-3	Pyridine	LCSD	6	10-66	05	potential low bias
8270D	Batch QC	WG1448815-3	Pyridine	LCSD	72	30	05	non-directional bias
SPLP Metals by EPA 1312 - Mansfield Lab								
6010D	Batch QC	WG1445852-2	Zinc, SPLP	LCS	126	80-120	01-04	potential high bias
MCP General Chemistry - Westborough Lab								
7196A	Batch QC	WG1446813-3	Chromium, Hexavalent	LCSD	57	70-129	01-04	potential low bias
7196A	Batch QC	WG1446813-3	Chromium, Hexavalent	LCSD	70	20	01-04	non-directional bias

ORGANICS

SEMIVOLATILES

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
 Client ID: GREENFIELD TURF
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 1,8270D
 Analytical Date: 12/18/20 10:07
 Analyst: IM

Extraction Method: EPA 3510C
 Extraction Date: 12/15/20 18:50

Percent Solids: Results reported on an 'AS RECEIVED' basis.
 TCLP/SPLP Ext. Date: 12/08/20 06:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	1.1	1
Benzidine	ND		ug/l	20	8.1	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.58	1
Hexachlorobenzene	ND		ug/l	2.0	0.69	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
2-Chloronaphthalene	ND		ug/l	2.0	0.54	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.46	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
Azobenzene	ND		ug/l	2.0	0.81	1
Fluoranthene	ND		ug/l	2.0	0.65	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorobutadiene	ND		ug/l	2.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Hexachloroethane	ND		ug/l	2.0	0.44	1
Isophorone	ND		ug/l	5.0	0.66	1
Naphthalene	ND		ug/l	2.0	0.67	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	1.5	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1

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Project Number: 143-319629-21001

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SAMPLE RESULTS

Lab ID: L2052415-01
Client ID: GREENFIELD TURF
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Benzo(a)anthracene	ND		ug/l	2.0	0.77	1
Benzo(a)pyrene	ND		ug/l	2.0	0.45	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.81	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.82	1
Chrysene	ND		ug/l	2.0	0.83	1
Acenaphthylene	ND		ug/l	2.0	0.59	1
Anthracene	ND		ug/l	2.0	0.79	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.77	1
Fluorene	ND		ug/l	2.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.99	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.45	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.94	1
Pyrene	ND		ug/l	2.0	0.70	1
Biphenyl	ND		ug/l	2.0	0.64	1
Aniline	ND		ug/l	2.0	0.48	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
1-Methylnaphthalene	ND		ug/l	2.0	0.60	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
2-Methylnaphthalene	ND		ug/l	2.0	0.68	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.52	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Pentachlorophenol	ND		ug/l	10	2.0	1

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Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
 Client ID: GREENFIELD TURF
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Phenol	2.0	J	ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.70	1
Carbazole	ND		ug/l	2.0	0.76	1
Pyridine	ND		ug/l	3.5	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	68		41-149

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
Client ID: GREENFIELD TURF
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/18/20 19:42
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 12/18/20 07:40

Percent Solids: Results reported on an 'AS RECEIVED' basis.
TCLP/SPLP Ext. Date: 12/12/20 14:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	1.39	J	ng/l	1.87	0.381	1
Perfluoropentanoic Acid (PFPeA)	2.01		ng/l	1.87	0.370	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.87	0.222	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	1.87	0.422	1
Perfluorohexanoic Acid (PFHxA)	0.803	J	ng/l	1.87	0.306	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.87	0.229	1
Perfluoroheptanoic Acid (PFHpA)	0.545	J	ng/l	1.87	0.210	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.87	0.351	1
Perfluorooctanoic Acid (PFOA)	0.471	JFB	ng/l	1.87	0.220	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.87	1.24	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.87	0.643	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.87	0.291	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.87	0.471	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.87	0.284	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.87	1.13	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/l	1.87	1.05	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.87	0.605	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.87	0.243	1
Perfluorodecanesulfonic Acid (PFDS)	2.07	F	ng/l	1.87	0.915	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.87	0.542	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.87	0.751	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.87	0.347	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.87	0.306	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.87	0.232	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
 Client ID: GREENFIELD TURF
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	117		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	740	Q	1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	69		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	630	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	83		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	475	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	291	Q	1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	165	Q	40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	42		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	139		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	107		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
Client ID: GREENFIELD TURF
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/09/20 04:31
Analyst: HT
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: ALPHA 23528
Extraction Date: 12/08/20 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	3.08	0.070	1
Perfluoropentanoic Acid (PFPeA)	0.148	J	ng/g	3.08	0.142	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	3.08	0.120	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	3.08	0.198	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	3.08	0.162	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	3.08	0.257	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	3.08	0.139	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	3.08	0.186	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	3.08	0.129	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	3.08	0.552	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	3.08	0.420	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	3.08	0.231	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	3.08	0.400	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	3.08	0.206	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	3.08	0.883	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	3.08	0.920	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	3.08	0.620	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	3.08	0.144	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	3.08	0.471	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	3.08	0.302	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	3.08	0.260	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	3.08	0.215	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	3.08	0.629	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	3.08	0.166	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
 Client ID: GREENFIELD TURF
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier		Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)			85			60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)			109			65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)			90			70-151
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)			642	Q		56-138
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)			103			61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)			98			62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)			104			63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)			86			62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)			146			32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)			107			61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)			89			65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)			86			65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)			638	Q		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)			84			45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)			84			64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			37			1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)			87			42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)			79			56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)			43			26-160

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
 Client ID: GREENFIELD TURF
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8270D
 Analytical Date: 12/14/20 22:51
 Analyst: WR
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
 Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	430	56.	1
1,2,4-Trichlorobenzene	ND		ug/kg	540	62.	1
Hexachlorobenzene	ND		ug/kg	230	61.	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	73.	1
2-Chloronaphthalene	ND		ug/kg	540	54.	1
1,2-Dichlorobenzene	ND		ug/kg	540	97.	1
1,3-Dichlorobenzene	ND		ug/kg	540	93.	1
1,4-Dichlorobenzene	ND		ug/kg	230	94.	1
3,3'-Dichlorobenzidine	ND		ug/kg	540	140	1
2,4-Dinitrotoluene	ND		ug/kg	230	110	1
2,6-Dinitrotoluene	ND		ug/kg	540	93.	1
Azobenzene	ND		ug/kg	540	52.	1
Fluoranthene	ND		ug/kg	320	62.	1
4-Bromophenyl phenyl ether	ND		ug/kg	540	83.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	92.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	580	54.	1
Hexachlorobutadiene	ND		ug/kg	540	79.	1
Hexachloroethane	ND		ug/kg	230	88.	1
Isophorone	ND		ug/kg	490	70.	1
Naphthalene	ND		ug/kg	540	66.	1
Nitrobenzene	ND		ug/kg	490	80.	1
Bis(2-ethylhexyl)phthalate	370	J	ug/kg	540	190	1
Butyl benzyl phthalate	ND		ug/kg	540	140	1
Di-n-butylphthalate	ND		ug/kg	540	100	1
Di-n-octylphthalate	ND		ug/kg	540	180	1
Diethyl phthalate	ND		ug/kg	540	50.	1
Dimethyl phthalate	ND		ug/kg	230	110	1
Benzo(a)anthracene	ND		ug/kg	320	61.	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
Client ID: GREENFIELD TURF
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	430	130	1
Benzo(b)fluoranthene	ND		ug/kg	320	91.	1
Benzo(k)fluoranthene	ND		ug/kg	320	87.	1
Chrysene	ND		ug/kg	320	56.	1
Acenaphthylene	ND		ug/kg	430	84.	1
Anthracene	ND		ug/kg	320	100	1
Benzo(ghi)perylene	ND		ug/kg	430	64.	1
Fluorene	ND		ug/kg	540	53.	1
Phenanthrene	ND		ug/kg	320	66.	1
Dibenzo(a,h)anthracene	ND		ug/kg	230	63.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	430	76.	1
Pyrene	ND		ug/kg	320	54.	1
Aniline	ND		ug/kg	650	260	1
4-Chloroaniline	ND		ug/kg	540	98.	1
Dibenzofuran	ND		ug/kg	540	51.	1
2-Methylnaphthalene	ND		ug/kg	230	65.	1
Acetophenone	ND		ug/kg	540	67.	1
2,4,6-Trichlorophenol	ND		ug/kg	230	100	1
2-Chlorophenol	ND		ug/kg	230	64.	1
2,4-Dichlorophenol	ND		ug/kg	230	87.	1
2,4-Dimethylphenol	ND		ug/kg	230	180	1
2-Nitrophenol	ND		ug/kg	1200	200	1
4-Nitrophenol	ND		ug/kg	760	220	1
2,4-Dinitrophenol	ND		ug/kg	2600	250	1
Pentachlorophenol	ND		ug/kg	1100	120	1
Phenol	160	J	ug/kg	540	82.	1
2-Methylphenol	ND		ug/kg	540	84.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	780	85.	1
2,4,5-Trichlorophenol	ND		ug/kg	540	100	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
 Client ID: GREENFIELD TURF
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		30-130
Phenol-d6	91		30-130
Nitrobenzene-d5	93		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	82		30-130
4-Terphenyl-d14	85		30-130

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 1,8270D
 Analytical Date: 12/20/20 09:48
 Analyst: WR

Extraction Method: EPA 3510C
 Extraction Date: 12/19/20 21:59

Percent Solids: Results reported on an 'AS RECEIVED' basis.
 TCLP/SPLP Ext. Date: 12/13/20 14:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	1.1	1
Benzidine	ND		ug/l	20	8.1	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.58	1
Hexachlorobenzene	ND		ug/l	2.0	0.69	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
2-Chloronaphthalene	ND		ug/l	2.0	0.54	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.46	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
Azobenzene	ND		ug/l	2.0	0.81	1
Fluoranthene	ND		ug/l	2.0	0.65	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorobutadiene	ND		ug/l	2.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Hexachloroethane	ND		ug/l	2.0	0.44	1
Isophorone	ND		ug/l	5.0	0.66	1
Naphthalene	ND		ug/l	2.0	0.67	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
Client ID: BROCK SHOCK PAD
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Benzo(a)anthracene	ND		ug/l	2.0	0.77	1
Benzo(a)pyrene	ND		ug/l	2.0	0.45	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.81	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.82	1
Chrysene	ND		ug/l	2.0	0.83	1
Acenaphthylene	ND		ug/l	2.0	0.59	1
Anthracene	ND		ug/l	2.0	0.79	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.77	1
Fluorene	ND		ug/l	2.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.99	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.45	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.94	1
Pyrene	ND		ug/l	2.0	0.70	1
Biphenyl	ND		ug/l	2.0	0.64	1
Aniline	ND		ug/l	2.0	0.48	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
1-Methylnaphthalene	ND		ug/l	2.0	0.60	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
2-Methylnaphthalene	ND		ug/l	2.0	0.68	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.52	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Pentachlorophenol	ND		ug/l	10	2.0	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.70	1
Carbazole	ND		ug/l	2.0	0.76	1
Pyridine	ND		ug/l	3.5	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	95		10-120
4-Terphenyl-d14	91		41-149

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 12/18/20 20:15
 Analyst: SG

Extraction Method: ALPHA 23528
 Extraction Date: 12/18/20 07:40

Percent Solids: Results reported on an 'AS RECEIVED' basis.
 TCLP/SPLP Ext. Date: 12/12/20 14:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	1.84		ng/l	1.75	0.357	1
Perfluoropentanoic Acid (PFPeA)	1.52	J	ng/l	1.75	0.347	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.75	0.208	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	1.75	0.396	1
Perfluorohexanoic Acid (PFHxA)	1.03	J	ng/l	1.75	0.287	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.75	0.215	1
Perfluoroheptanoic Acid (PFHpA)	1.00	J	ng/l	1.75	0.197	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.75	0.329	1
Perfluorooctanoic Acid (PFOA)	0.403	JFB	ng/l	1.75	0.207	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.75	1.17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.75	0.603	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.75	0.273	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.75	0.442	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.75	0.266	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.75	1.06	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/l	1.75	0.981	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.75	0.568	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.75	0.228	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.75	0.858	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.75	0.508	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.75	0.704	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.75	0.326	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.75	0.287	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.75	0.217	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	74		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	96		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	102		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	160		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	8		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 12/09/20 04:47
 Analyst: HT
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: ALPHA 23528
 Extraction Date: 12/08/20 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	9.52	0.216	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	9.52	0.438	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	9.52	0.371	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	9.52	0.614	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	9.52	0.500	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	9.52	0.795	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	9.52	0.430	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	9.52	0.576	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	9.52	0.399	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	9.52	1.71	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	9.52	1.30	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	9.52	0.714	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	9.52	1.24	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	9.52	0.638	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	9.52	2.73	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	9.52	2.85	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	9.52	1.92	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	9.52	0.446	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	9.52	1.46	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	9.52	0.933	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	9.52	0.805	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	9.52	0.667	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	9.52	1.95	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	9.52	0.514	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		70-151
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	121		56-138
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	100		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	120		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	49		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	56		26-160

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8270D
 Analytical Date: 12/14/20 22:06
 Analyst: WR
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
 Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	550	71.	1
1,2,4-Trichlorobenzene	ND		ug/kg	690	79.	1
Hexachlorobenzene	ND		ug/kg	290	77.	1
Bis(2-chloroethyl)ether	ND		ug/kg	290	93.	1
2-Chloronaphthalene	ND		ug/kg	690	68.	1
1,2-Dichlorobenzene	ND		ug/kg	690	120	1
1,3-Dichlorobenzene	ND		ug/kg	690	120	1
1,4-Dichlorobenzene	ND		ug/kg	290	120	1
3,3'-Dichlorobenzidine	ND		ug/kg	690	180	1
2,4-Dinitrotoluene	ND		ug/kg	290	140	1
2,6-Dinitrotoluene	ND		ug/kg	690	120	1
Azobenzene	ND		ug/kg	690	66.	1
Fluoranthene	ND		ug/kg	410	79.	1
4-Bromophenyl phenyl ether	ND		ug/kg	690	100	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	290	120	1
Bis(2-chloroethoxy)methane	ND		ug/kg	740	69.	1
Hexachlorobutadiene	ND		ug/kg	690	100	1
Hexachloroethane	ND		ug/kg	290	110	1
Isophorone	ND		ug/kg	620	89.	1
Naphthalene	ND		ug/kg	690	84.	1
Nitrobenzene	ND		ug/kg	620	100	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	690	240	1
Butyl benzyl phthalate	ND		ug/kg	690	170	1
Di-n-butylphthalate	ND		ug/kg	690	130	1
Di-n-octylphthalate	ND		ug/kg	690	230	1
Diethyl phthalate	ND		ug/kg	690	64.	1
Dimethyl phthalate	ND		ug/kg	290	140	1
Benzo(a)anthracene	ND		ug/kg	410	78.	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	550	170	1
Benzo(b)fluoranthene	ND		ug/kg	410	120	1
Benzo(k)fluoranthene	ND		ug/kg	410	110	1
Chrysene	ND		ug/kg	410	72.	1
Acenaphthylene	ND		ug/kg	550	110	1
Anthracene	ND		ug/kg	410	130	1
Benzo(ghi)perylene	ND		ug/kg	550	81.	1
Fluorene	ND		ug/kg	690	67.	1
Phenanthrene	ND		ug/kg	410	84.	1
Dibenzo(a,h)anthracene	ND		ug/kg	290	80.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	550	96.	1
Pyrene	ND		ug/kg	410	68.	1
Aniline	ND		ug/kg	830	320	1
4-Chloroaniline	ND		ug/kg	690	120	1
Dibenzofuran	ND		ug/kg	690	65.	1
2-Methylnaphthalene	ND		ug/kg	290	83.	1
Acetophenone	ND		ug/kg	690	85.	1
2,4,6-Trichlorophenol	ND		ug/kg	290	130	1
2-Chlorophenol	ND		ug/kg	290	81.	1
2,4-Dichlorophenol	ND		ug/kg	290	110	1
2,4-Dimethylphenol	ND		ug/kg	290	230	1
2-Nitrophenol	ND		ug/kg	1500	260	1
4-Nitrophenol	ND		ug/kg	960	280	1
2,4-Dinitrophenol	ND		ug/kg	3300	320	1
Pentachlorophenol	ND		ug/kg	1400	150	1
Phenol	ND		ug/kg	690	100	1
2-Methylphenol	ND		ug/kg	690	110	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	990	110	1
2,4,5-Trichlorophenol	ND		ug/kg	690	130	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Semivolatile Organics - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		30-130
Phenol-d6	94		30-130
Nitrobenzene-d5	99		30-130
2-Fluorobiphenyl	82		30-130
2,4,6-Tribromophenol	81		30-130
4-Terphenyl-d14	86		30-130

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
 Client ID: BROCK FILL
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 1,8270D
 Analytical Date: 12/18/20 10:33
 Analyst: IM

Extraction Method: EPA 3510C
 Extraction Date: 12/15/20 18:50

Percent Solids: Results reported on an 'AS RECEIVED' basis.
 TCLP/SPLP Ext. Date: 12/08/20 06:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	1.1	1
Benzidine	ND		ug/l	20	8.1	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.58	1
Hexachlorobenzene	ND		ug/l	2.0	0.69	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
2-Chloronaphthalene	ND		ug/l	2.0	0.54	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.46	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
Azobenzene	ND		ug/l	2.0	0.81	1
Fluoranthene	ND		ug/l	2.0	0.65	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorobutadiene	ND		ug/l	2.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Hexachloroethane	ND		ug/l	2.0	0.44	1
Isophorone	ND		ug/l	5.0	0.66	1
Naphthalene	ND		ug/l	2.0	0.67	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
Client ID: BROCK FILL
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Benzo(a)anthracene	ND		ug/l	2.0	0.77	1
Benzo(a)pyrene	ND		ug/l	2.0	0.45	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.81	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.82	1
Chrysene	ND		ug/l	2.0	0.83	1
Acenaphthylene	ND		ug/l	2.0	0.59	1
Anthracene	ND		ug/l	2.0	0.79	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.77	1
Fluorene	ND		ug/l	2.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.99	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.45	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.94	1
Pyrene	ND		ug/l	2.0	0.70	1
Biphenyl	ND		ug/l	2.0	0.64	1
Aniline	ND		ug/l	2.0	0.48	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
1-Methylnaphthalene	ND		ug/l	2.0	0.60	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
2-Methylnaphthalene	ND		ug/l	2.0	0.68	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.52	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	1.8	J	ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Pentachlorophenol	ND		ug/l	10	2.0	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
 Client ID: BROCK FILL
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Phenol	16.		ug/l	5.0	1.3	1
2-Methylphenol	8.8		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	16.		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	15.		ug/l	2.0	0.70	1
Carbazole	ND		ug/l	2.0	0.76	1
Pyridine	ND		ug/l	3.5	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	60		41-149

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
Client ID: BROCK FILL
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/13/20 14:10
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 12/12/20 12:45

Percent Solids: Results reported on an 'AS RECEIVED' basis.

TCLP/SPLP Ext. Date: 12/08/20 21:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.77	0.362	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.77	0.351	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.77	0.211	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	1.77	0.401	1
Perfluorohexanoic Acid (PFHxA)	2.88	F	ng/l	1.77	0.291	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.77	0.217	1
Perfluoroheptanoic Acid (PFHpA)	5.01	F	ng/l	1.77	0.200	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.77	0.333	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.77	0.209	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.77	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.77	0.610	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.77	0.277	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.77	0.447	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.77	0.270	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.77	1.08	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/l	1.77	0.993	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.77	0.575	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.77	0.231	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.77	0.869	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.77	0.514	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.77	0.713	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.77	0.330	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.77	0.290	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.77	0.220	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
Client ID: BROCK FILL
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	56		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	331	Q	1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	438	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	198	Q	34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	563	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	123		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	106		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	34		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
Client ID: BROCK FILL
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/09/20 05:04
Analyst: HT
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: ALPHA 23528
Extraction Date: 12/08/20 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	2.84	0.064	1
Perfluoropentanoic Acid (PFPeA)	0.455	J	ng/g	2.84	0.130	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	2.84	0.111	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	2.84	0.183	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	2.84	0.149	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	2.84	0.237	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	2.84	0.128	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	2.84	0.172	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	2.84	0.119	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	2.84	0.509	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	2.84	0.387	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	2.84	0.213	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	2.84	0.369	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	2.84	0.190	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	2.84	0.814	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	2.84	0.848	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	2.84	0.572	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	2.84	0.133	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	2.84	0.434	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	2.84	0.278	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	2.84	0.240	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	2.84	0.198	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	2.84	0.580	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	2.84	0.153	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
 Client ID: BROCK FILL
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	81		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		70-151
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	489	Q	56-138
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	637	Q	32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	525	Q	25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	158	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	166	Q	42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		26-160

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03 D
 Client ID: BROCK FILL
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 1,8270D
 Analytical Date: 12/15/20 18:17
 Analyst: JRW
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
 Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzyl Alcohol	4400		ug/kg	1700	510	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	72		18-120

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03 D
 Client ID: BROCK FILL
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8270D
 Analytical Date: 12/15/20 18:17
 Analyst: JRW
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
 Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	1300	170	10
1,2,4-Trichlorobenzene	ND		ug/kg	1700	190	10
Hexachlorobenzene	ND		ug/kg	700	180	10
Bis(2-chloroethyl)ether	ND		ug/kg	700	220	10
2-Chloronaphthalene	ND		ug/kg	1700	160	10
1,2-Dichlorobenzene	ND		ug/kg	1700	300	10
1,3-Dichlorobenzene	ND		ug/kg	1700	280	10
1,4-Dichlorobenzene	ND		ug/kg	700	290	10
3,3'-Dichlorobenzidine	ND		ug/kg	1700	440	10
2,4-Dinitrotoluene	ND		ug/kg	700	330	10
2,6-Dinitrotoluene	ND		ug/kg	1700	280	10
Azobenzene	ND		ug/kg	1700	160	10
Fluoranthene	ND		ug/kg	1000	190	10
4-Bromophenyl phenyl ether	ND		ug/kg	1700	250	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	700	280	10
Bis(2-chloroethoxy)methane	ND		ug/kg	1800	170	10
Hexachlorobutadiene	ND		ug/kg	1700	240	10
Hexachloroethane	ND		ug/kg	700	270	10
Isophorone	ND		ug/kg	1500	220	10
Naphthalene	ND		ug/kg	1700	200	10
Nitrobenzene	ND		ug/kg	1500	240	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1700	570	10
Butyl benzyl phthalate	ND		ug/kg	1700	420	10
Di-n-butylphthalate	ND		ug/kg	1700	310	10
Di-n-octylphthalate	ND		ug/kg	1700	560	10
Diethyl phthalate	ND		ug/kg	1700	150	10
Dimethyl phthalate	ND		ug/kg	700	350	10
Benzo(a)anthracene	ND		ug/kg	1000	190	10

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03 D
 Client ID: BROCK FILL
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	1300	400	10
Benzo(b)fluoranthene	ND		ug/kg	1000	280	10
Benzo(k)fluoranthene	ND		ug/kg	1000	260	10
Chrysene	ND		ug/kg	1000	170	10
Acenaphthylene	ND		ug/kg	1300	260	10
Anthracene	ND		ug/kg	1000	320	10
Benzo(ghi)perylene	ND		ug/kg	1300	200	10
Fluorene	ND		ug/kg	1700	160	10
Phenanthrene	ND		ug/kg	1000	200	10
Dibenzo(a,h)anthracene	ND		ug/kg	700	190	10
Indeno(1,2,3-cd)pyrene	ND		ug/kg	1300	230	10
Pyrene	ND		ug/kg	1000	160	10
Aniline	ND		ug/kg	2000	780	10
4-Chloroaniline	ND		ug/kg	1700	300	10
Dibenzofuran	ND		ug/kg	1700	160	10
2-Methylnaphthalene	ND		ug/kg	700	200	10
Acetophenone	ND		ug/kg	1700	200	10
2,4,6-Trichlorophenol	ND		ug/kg	700	310	10
2-Chlorophenol	ND		ug/kg	700	200	10
2,4-Dichlorophenol	ND		ug/kg	700	270	10
2,4-Dimethylphenol	ND		ug/kg	700	550	10
2-Nitrophenol	ND		ug/kg	3600	620	10
4-Nitrophenol	ND		ug/kg	2300	680	10
2,4-Dinitrophenol	ND		ug/kg	8000	770	10
Pentachlorophenol	ND		ug/kg	3300	360	10
Phenol	6900		ug/kg	1700	250	10
2-Methylphenol	310	J	ug/kg	1700	260	10
3-Methylphenol/4-Methylphenol	630	J	ug/kg	2400	260	10
2,4,5-Trichlorophenol	ND		ug/kg	1700	320	10

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03 D
 Client ID: BROCK FILL
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		30-130
Phenol-d6	80		30-130
Nitrobenzene-d5	86		30-130
2-Fluorobiphenyl	71		30-130
2,4,6-Tribromophenol	71		30-130
4-Terphenyl-d14	72		30-130

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 1,8270D
 Analytical Date: 12/18/20 10:58
 Analyst: IM

Extraction Method: EPA 3510C
 Extraction Date: 12/15/20 18:50

Percent Solids: Results reported on an 'AS RECEIVED' basis.
 TCLP/SPLP Ext. Date: 12/08/20 06:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	1.1	1
Benzidine	ND		ug/l	20	8.1	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.58	1
Hexachlorobenzene	ND		ug/l	2.0	0.69	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
2-Chloronaphthalene	ND		ug/l	2.0	0.54	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.46	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
Azobenzene	ND		ug/l	2.0	0.81	1
Fluoranthene	ND		ug/l	2.0	0.65	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorobutadiene	ND		ug/l	2.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Hexachloroethane	ND		ug/l	2.0	0.44	1
Isophorone	ND		ug/l	5.0	0.66	1
Naphthalene	ND		ug/l	2.0	0.67	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Benzo(a)anthracene	ND		ug/l	2.0	0.77	1
Benzo(a)pyrene	ND		ug/l	2.0	0.45	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.81	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.82	1
Chrysene	ND		ug/l	2.0	0.83	1
Acenaphthylene	ND		ug/l	2.0	0.59	1
Anthracene	ND		ug/l	2.0	0.79	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.77	1
Fluorene	ND		ug/l	2.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.99	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.45	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.94	1
Pyrene	ND		ug/l	2.0	0.70	1
Biphenyl	ND		ug/l	2.0	0.64	1
Aniline	ND		ug/l	2.0	0.48	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
1-Methylnaphthalene	ND		ug/l	2.0	0.60	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
2-Methylnaphthalene	ND		ug/l	2.0	0.68	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.52	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Pentachlorophenol	ND		ug/l	10	2.0	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
Client ID: REYNOLDS 775 GLUE
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.70	1
Carbazole	ND		ug/l	2.0	0.76	1
Pyridine	ND		ug/l	3.5	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	82		41-149

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 12/13/20 14:43
 Analyst: SG

Extraction Method: ALPHA 23528
 Extraction Date: 12/12/20 12:45

Percent Solids: Results reported on an 'AS RECEIVED' basis.
 TCLP/SPLP Ext. Date: 12/08/20 21:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.81	0.369	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.81	0.358	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.81	0.215	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	1.81	0.408	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.81	0.296	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.81	0.222	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.81	0.204	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.81	0.340	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.81	0.213	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.81	1.20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.81	0.622	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.81	0.282	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.81	0.456	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.81	0.275	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.81	1.10	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/l	1.81	1.01	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.81	0.586	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.81	0.235	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.81	0.886	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.81	0.524	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.81	0.727	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.81	0.336	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.81	0.296	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.81	0.224	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	181		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	192		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	149		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	261	Q	1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	4		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	60		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 134,LCMSMS-ID
 Analytical Date: 12/09/20 05:37
 Analyst: HT
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: ALPHA 23528
 Extraction Date: 12/08/20 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.973	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.973	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.973	0.038	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.973	0.063	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.973	0.051	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.973	0.081	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.973	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.973	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.973	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.973	0.175	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.973	0.133	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.973	0.073	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.973	0.126	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.973	0.065	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.973	0.279	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	0.973	0.291	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.973	0.196	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.973	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.973	0.149	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.973	0.095	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.973	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.973	0.068	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.973	0.199	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.973	0.053	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	107		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		70-151
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	147	Q	56-138
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	125		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	142		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	331	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	96		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59		26-160

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04 D
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8270D
 Analytical Date: 12/14/20 22:29
 Analyst: WR
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
 Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	39000	5000	300
1,2,4-Trichlorobenzene	ND		ug/kg	48000	5600	300
Hexachlorobenzene	ND		ug/kg	20000	5400	300
Bis(2-chloroethyl)ether	ND		ug/kg	20000	6600	300
2-Chloronaphthalene	ND		ug/kg	48000	4800	300
1,2-Dichlorobenzene	ND		ug/kg	48000	8700	300
1,3-Dichlorobenzene	ND		ug/kg	48000	8400	300
1,4-Dichlorobenzene	ND		ug/kg	20000	8500	300
3,3'-Dichlorobenzidine	ND		ug/kg	48000	13000	300
2,4-Dinitrotoluene	ND		ug/kg	20000	9700	300
2,6-Dinitrotoluene	ND		ug/kg	48000	8300	300
Azobenzene	ND		ug/kg	48000	4700	300
Fluoranthene	ND		ug/kg	29000	5600	300
4-Bromophenyl phenyl ether	ND		ug/kg	48000	7400	300
Bis(2-chloroisopropyl)ether	ND		ug/kg	20000	8300	300
Bis(2-chloroethoxy)methane	ND		ug/kg	52000	4900	300
Hexachlorobutadiene	ND		ug/kg	48000	7100	300
Hexachloroethane	ND		ug/kg	20000	7800	300
Isophorone	ND		ug/kg	44000	6300	300
Naphthalene	ND		ug/kg	48000	5900	300
Nitrobenzene	ND		ug/kg	44000	7200	300
Bis(2-ethylhexyl)phthalate	ND		ug/kg	48000	17000	300
Butyl benzyl phthalate	ND		ug/kg	48000	12000	300
Di-n-butylphthalate	ND		ug/kg	48000	9200	300
Di-n-octylphthalate	ND		ug/kg	48000	16000	300
Diethyl phthalate	ND		ug/kg	48000	4500	300
Dimethyl phthalate	ND		ug/kg	20000	10000	300
Benzo(a)anthracene	ND		ug/kg	29000	5500	300

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04 D
Client ID: REYNOLDS 775 GLUE
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	39000	12000	300
Benzo(b)fluoranthene	ND		ug/kg	29000	8200	300
Benzo(k)fluoranthene	ND		ug/kg	29000	7800	300
Chrysene	ND		ug/kg	29000	5000	300
Acenaphthylene	ND		ug/kg	39000	7500	300
Anthracene	ND		ug/kg	29000	9500	300
Benzo(ghi)perylene	ND		ug/kg	39000	5700	300
Fluorene	ND		ug/kg	48000	4700	300
Phenanthrene	ND		ug/kg	29000	5900	300
Dibenzo(a,h)anthracene	ND		ug/kg	20000	5600	300
Indeno(1,2,3-cd)pyrene	ND		ug/kg	39000	6800	300
Pyrene	ND		ug/kg	29000	4800	300
Aniline	ND		ug/kg	58000	23000	300
4-Chloroaniline	ND		ug/kg	48000	8800	300
Dibenzofuran	ND		ug/kg	48000	4600	300
2-Methylnaphthalene	ND		ug/kg	20000	5900	300
Acetophenone	ND		ug/kg	48000	6000	300
2,4,6-Trichlorophenol	ND		ug/kg	20000	9200	300
2-Chlorophenol	ND		ug/kg	20000	5700	300
2,4-Dichlorophenol	ND		ug/kg	20000	7800	300
2,4-Dimethylphenol	ND		ug/kg	20000	16000	300
2-Nitrophenol	ND		ug/kg	100000	18000	300
4-Nitrophenol	ND		ug/kg	68000	20000	300
2,4-Dinitrophenol	ND		ug/kg	230000	23000	300
Pentachlorophenol	ND		ug/kg	97000	11000	300
Phenol	ND		ug/kg	48000	7300	300
2-Methylphenol	ND		ug/kg	48000	7500	300
3-Methylphenol/4-Methylphenol	ND		ug/kg	70000	7600	300
2,4,5-Trichlorophenol	ND		ug/kg	48000	9300	300

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04 D
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	30-130
Phenol-d6	0	Q	30-130
Nitrobenzene-d5	0	Q	30-130
2-Fluorobiphenyl	0	Q	30-130
2,4,6-Tribromophenol	0	Q	30-130
4-Terphenyl-d14	0	Q	30-130

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05
 Client ID: MAPEI ULTRA BOND
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 1,8270D
 Analytical Date: 12/24/20 08:26
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 12/23/20 21:15

Percent Solids: Results reported on an 'AS RECEIVED' basis.
 TCLP/SPLP Ext. Date: 12/19/20 14:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	1.1	1
Benzidine	ND		ug/l	20	8.1	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.58	1
Hexachlorobenzene	ND		ug/l	2.0	0.69	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
2-Chloronaphthalene	ND		ug/l	2.0	0.54	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.64	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.46	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
Azobenzene	ND		ug/l	2.0	0.81	1
Fluoranthene	ND		ug/l	2.0	0.65	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorobutadiene	ND		ug/l	2.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Hexachloroethane	ND		ug/l	2.0	0.44	1
Isophorone	ND		ug/l	5.0	0.66	1
Naphthalene	ND		ug/l	2.0	0.67	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05
Client ID: MAPEI ULTRA BOND
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Benzo(a)anthracene	ND		ug/l	2.0	0.77	1
Benzo(a)pyrene	ND		ug/l	2.0	0.45	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.81	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.82	1
Chrysene	ND		ug/l	2.0	0.83	1
Acenaphthylene	ND		ug/l	2.0	0.59	1
Anthracene	ND		ug/l	2.0	0.79	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.77	1
Fluorene	ND		ug/l	2.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.99	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.45	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.94	1
Pyrene	ND		ug/l	2.0	0.70	1
Biphenyl	ND		ug/l	2.0	0.64	1
Aniline	ND		ug/l	2.0	0.48	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
1-Methylnaphthalene	ND		ug/l	2.0	0.60	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
2-Methylnaphthalene	ND		ug/l	2.0	0.68	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.52	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Pentachlorophenol	ND		ug/l	10	2.0	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05
Client ID: MAPEI ULTRA BOND
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Semivolatiles by EPA 1312 - Westborough Lab						
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.70	1
Carbazole	ND		ug/l	2.0	0.76	1
Pyridine	ND		ug/l	3.5	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	93		41-149

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05
Client ID: MAPEI ULTRA BOND
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/23/20 07:38
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 12/21/20 12:00

Percent Solids: Results reported on an 'AS RECEIVED' basis.
TCLP/SPLP Ext. Date: 12/18/20 17:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.83	0.373	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.83	0.362	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.83	0.217	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	1.83	0.413	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.83	0.300	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.83	0.224	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.83	0.206	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.83	0.343	1
Perfluorooctanoic Acid (PFOA)	0.395	J	ng/l	1.83	0.216	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.83	1.22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.83	0.628	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.83	0.285	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.83	0.460	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.83	0.278	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.83	1.11	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/l	1.83	1.02	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.83	0.592	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.83	0.238	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.83	0.895	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.83	0.530	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.83	0.734	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.83	0.340	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.83	0.299	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.83	0.226	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05
 Client ID: MAPEI ULTRA BOND
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	126		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	134		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	332	Q	1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	124		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	123		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	103		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	120		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	114		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	135		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	91		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	109		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05
Client ID: MAPEI ULTRA BOND
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:

Matrix: Solid
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/09/20 06:10
Analyst: HT
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: ALPHA 23528
Extraction Date: 12/08/20 10:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	1.66	0.038	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	1.66	0.076	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	1.66	0.065	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.66	0.107	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	1.66	0.087	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.66	0.138	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	1.66	0.075	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	1.66	0.100	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	1.66	0.070	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.848	JF	ng/g	1.66	0.298	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	1.66	0.226	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	1.66	0.124	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	1.66	0.216	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	1.66	0.111	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	1.66	0.476	1
Perfluoronanesulfonic Acid (PFNS)	ND		ng/g	1.66	0.496	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.66	0.334	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	1.66	0.078	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	1.66	0.254	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	1.66	0.163	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.66	0.140	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	1.66	0.116	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.66	0.339	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.66	0.090	1

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05
 Client ID: MAPEI ULTRA BOND
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		70-151
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	540	Q	56-138
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	138		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	155	Q	62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	340	Q	32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	78		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	81		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	212	Q	25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	119		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	111		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		26-160

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05 D
 Client ID: MAPEI ULTRA BOND
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Solid
 Analytical Method: 97,8270D
 Analytical Date: 12/15/20 02:16
 Analyst: JG
 Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
 Extraction Date: 12/13/20 19:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	3800	500	5
1,2,4-Trichlorobenzene	ND		ug/kg	4800	550	5
Hexachlorobenzene	ND		ug/kg	2000	540	5
Bis(2-chloroethyl)ether	ND		ug/kg	2000	650	5
2-Chloronaphthalene	ND		ug/kg	4800	480	5
1,2-Dichlorobenzene	ND		ug/kg	4800	860	5
1,3-Dichlorobenzene	ND		ug/kg	4800	830	5
1,4-Dichlorobenzene	ND		ug/kg	2000	840	5
3,3'-Dichlorobenzidine	ND		ug/kg	4800	1300	5
2,4-Dinitrotoluene	ND		ug/kg	2000	960	5
2,6-Dinitrotoluene	ND		ug/kg	4800	830	5
Azobenzene	ND		ug/kg	4800	460	5
Fluoranthene	ND		ug/kg	2900	550	5
4-Bromophenyl phenyl ether	ND		ug/kg	4800	740	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	2000	820	5
Bis(2-chloroethoxy)methane	ND		ug/kg	5200	480	5
Hexachlorobutadiene	ND		ug/kg	4800	700	5
Hexachloroethane	ND		ug/kg	2000	780	5
Isophorone	ND		ug/kg	4300	620	5
Naphthalene	ND		ug/kg	4800	590	5
Nitrobenzene	ND		ug/kg	4300	710	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	4800	1700	5
Butyl benzyl phthalate	ND		ug/kg	4800	1200	5
Di-n-butylphthalate	ND		ug/kg	4800	910	5
Di-n-octylphthalate	ND		ug/kg	4800	1600	5
Diethyl phthalate	ND		ug/kg	4800	450	5
Dimethyl phthalate	ND		ug/kg	2000	1000	5
Benzo(a)anthracene	ND		ug/kg	2900	540	5

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05 D
 Client ID: MAPEI ULTRA BOND
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	3800	1200	5
Benzo(b)fluoranthene	ND		ug/kg	2900	810	5
Benzo(k)fluoranthene	ND		ug/kg	2900	770	5
Chrysene	ND		ug/kg	2900	500	5
Acenaphthylene	ND		ug/kg	3800	740	5
Anthracene	ND		ug/kg	2900	940	5
Benzo(ghi)perylene	ND		ug/kg	3800	570	5
Fluorene	ND		ug/kg	4800	470	5
Phenanthrene	ND		ug/kg	2900	580	5
Dibenzo(a,h)anthracene	ND		ug/kg	2000	560	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	3800	670	5
Pyrene	ND		ug/kg	2900	480	5
Aniline	ND		ug/kg	5800	2300	5
4-Chloroaniline	ND		ug/kg	4800	880	5
Dibenzofuran	ND		ug/kg	4800	460	5
2-Methylnaphthalene	ND		ug/kg	2000	580	5
Acetophenone	ND		ug/kg	4800	600	5
2,4,6-Trichlorophenol	ND		ug/kg	2000	910	5
2-Chlorophenol	ND		ug/kg	2000	570	5
2,4-Dichlorophenol	ND		ug/kg	2000	770	5
2,4-Dimethylphenol	ND		ug/kg	2000	1600	5
2-Nitrophenol	ND		ug/kg	10000	1800	5
4-Nitrophenol	ND		ug/kg	6700	2000	5
2,4-Dinitrophenol	ND		ug/kg	23000	2200	5
Pentachlorophenol	ND		ug/kg	9600	1000	5
Phenol	ND		ug/kg	4800	730	5
2-Methylphenol	ND		ug/kg	4800	750	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	6900	750	5
2,4,5-Trichlorophenol	ND		ug/kg	4800	920	5

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05 D
 Client ID: MAPEI ULTRA BOND
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		30-130
Phenol-d6	46		30-130
Nitrobenzene-d5	55		30-130
2-Fluorobiphenyl	49		30-130
2,4,6-Tribromophenol	33		30-130
4-Terphenyl-d14	57		30-130

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/09/20 03:41
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 12/08/20 10:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1442230-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	1.00	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	1.00	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	1.00	0.039
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	1.00	0.065
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	1.00	0.053
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	1.00	0.084
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	1.00	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	1.00	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	1.00	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	1.00	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	1.00	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	1.00	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	1.00	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	1.00	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	1.00	0.287
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	1.00	0.299
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	1.00	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	1.00	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	1.00	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	1.00	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	1.00	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	1.00	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	1.00	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	1.00	0.054

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/09/20 03:41
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 12/08/20 10:15

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1442230-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	83		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		70-151
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	128		56-138
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	103		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	112		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	78		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	57		26-160

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/13/20 13:04
Analyst: SG
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 12/12/20 12:45

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 03-04 Batch: WG1444345-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	2.00	0.452
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	2.00	0.245
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	2.00	1.12
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/13/20 13:04
Analyst: SG
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 12/12/20 12:45

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 03-04 Batch: WG1444345-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	115		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	139		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	108		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	119		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	87		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/13/20 13:21
Analyst: SG
TCLP/SPLP Extraction Date: 12/08/20 21:55

Extraction Method: ALPHA 23528
Extraction Date: 12/12/20 12:45

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 03-04 Batch: WG1444345-6					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.81	0.370
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.81	0.359
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.81	0.216
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	1.81	0.409
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.81	0.297
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.81	0.222
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.81	0.204
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.81	0.340
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.81	0.214
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.81	1.21
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.81	0.623
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.81	0.283
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.81	0.456
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.81	0.275
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.81	1.10
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.81	1.01
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.81	0.587
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.81	0.236
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.81	0.888
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.81	0.525
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.81	0.728
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.81	0.337
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.81	0.296
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.81	0.225

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/13/20 13:21
Analyst: SG
TCLP/SPLP Extraction Date: 12/08/20 21:55

Extraction Method: ALPHA 23528
Extraction Date: 12/12/20 12:45

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 03-04 Batch: WG1444345-6					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	111		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	130		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	113		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	111		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	6		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	87		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8270D
Analytical Date: 12/14/20 14:56
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02,04 Batch: WG1444455-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	70	18.
Bis(2-chloroethyl)ether	ND		ug/kg	70	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	70	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	70	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Azobenzene	ND		ug/kg	170	16.
Fluoranthene	ND		ug/kg	100	19.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	70	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachloroethane	ND		ug/kg	70	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	24.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	57.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	31.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.
Dimethyl phthalate	ND		ug/kg	70	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8270D
Analytical Date: 12/14/20 14:56
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02,04 Batch: WG1444455-1					
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	70	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Aniline	ND		ug/kg	200	78.
4-Chloroaniline	ND		ug/kg	170	30.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	70	20.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	70	31.
2-Chlorophenol	ND		ug/kg	70	20.
2,4-Dichlorophenol	ND		ug/kg	70	27.
2,4-Dimethylphenol	ND		ug/kg	70	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
Pentachlorophenol	ND		ug/kg	330	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 12/14/20 14:56
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02,04 Batch: WG1444455-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		30-130
Phenol-d6	91		30-130
Nitrobenzene-d5	95		30-130
2-Fluorobiphenyl	81		30-130
2,4,6-Tribromophenol	84		30-130
4-Terphenyl-d14	92		30-130

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 12/15/20 01:29
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 19:40

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 05 Batch: WG1444604-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	68	18.
Bis(2-chloroethyl)ether	ND		ug/kg	68	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	68	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	68	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	98	19.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	68	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachloroethane	ND		ug/kg	68	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	68	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8270D
Analytical Date: 12/15/20 01:29
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 19:40

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 05 Batch: WG1444604-1					
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	68	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Aniline	ND		ug/kg	200	77.
4-Chloroaniline	ND		ug/kg	160	30.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	68	20.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	68	31.
2-Chlorophenol	ND		ug/kg	68	19.
2,4-Dichlorophenol	ND		ug/kg	68	26.
2,4-Dimethylphenol	ND		ug/kg	68	54.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
Pentachlorophenol	ND		ug/kg	330	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 12/15/20 01:29
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 19:40

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 05 Batch: WG1444604-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		30-130
Phenol-d6	69		30-130
Nitrobenzene-d5	69		30-130
2-Fluorobiphenyl	74		30-130
2,4,6-Tribromophenol	75		30-130
4-Terphenyl-d14	75		30-130

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/18/20 08:25
Analyst: IM
TCLP/SPLP Extraction Date: 12/08/20 06:55

Extraction Method: EPA 3510C
Extraction Date: 12/15/20 18:50

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Semivolatiles by EPA 1312 - Westborough Lab for sample(s): 01,03-04 Batch: WG1445550-1					
Acenaphthene	ND		ug/l	2.0	1.1
Benzidine	ND		ug/l	20	8.1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.58
Hexachlorobenzene	ND		ug/l	2.0	0.69
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88
2-Chloronaphthalene	ND		ug/l	2.0	0.54
1,2-Dichlorobenzene	ND		ug/l	2.0	0.64
1,3-Dichlorobenzene	ND		ug/l	2.0	0.64
1,4-Dichlorobenzene	ND		ug/l	2.0	0.46
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37
Azobenzene	ND		ug/l	2.0	0.81
Fluoranthene	ND		ug/l	2.0	0.65
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5
Hexachlorobutadiene	ND		ug/l	2.0	0.60
Hexachlorocyclopentadiene	ND		ug/l	20	0.61
Hexachloroethane	ND		ug/l	2.0	0.44
Isophorone	ND		ug/l	5.0	0.66
Naphthalene	ND		ug/l	2.0	0.67
Nitrobenzene	ND		ug/l	2.0	0.66
NDPA/DPA	ND		ug/l	2.0	0.65
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	2.2
Di-n-butylphthalate	ND		ug/l	5.0	0.58

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/18/20 08:25
Analyst: IM
TCLP/SPLP Extraction Date: 12/08/20 06:55

Extraction Method: EPA 3510C
Extraction Date: 12/15/20 18:50

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Semivolatiles by EPA 1312 - Westborough Lab for sample(s): 01,03-04 Batch: WG1445550-1					
Di-n-octylphthalate	ND		ug/l	5.0	2.4
Diethyl phthalate	ND		ug/l	5.0	4.3
Dimethyl phthalate	ND		ug/l	5.0	4.4
Benzo(a)anthracene	ND		ug/l	2.0	0.77
Benzo(a)pyrene	ND		ug/l	2.0	0.45
Benzo(b)fluoranthene	ND		ug/l	2.0	0.81
Benzo(k)fluoranthene	ND		ug/l	2.0	0.82
Chrysene	ND		ug/l	2.0	0.83
Acenaphthylene	ND		ug/l	2.0	0.59
Anthracene	ND		ug/l	2.0	0.79
Benzo(ghi)perylene	ND		ug/l	2.0	0.77
Fluorene	ND		ug/l	2.0	1.0
Phenanthrene	ND		ug/l	2.0	0.99
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.45
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.94
Pyrene	ND		ug/l	2.0	0.70
Biphenyl	ND		ug/l	2.0	0.64
Aniline	ND		ug/l	2.0	0.48
4-Chloroaniline	ND		ug/l	5.0	0.65
1-Methylnaphthalene	ND		ug/l	2.0	0.60
2-Nitroaniline	ND		ug/l	5.0	0.52
3-Nitroaniline	ND		ug/l	5.0	0.57
4-Nitroaniline	ND		ug/l	5.0	0.58
Dibenzofuran	ND		ug/l	2.0	0.82
2-Methylnaphthalene	ND		ug/l	2.0	0.68
n-Nitrosodimethylamine	ND		ug/l	2.0	0.52
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49
p-Chloro-m-cresol	ND		ug/l	2.0	0.41
2-Chlorophenol	ND		ug/l	2.0	0.40

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 12/18/20 08:25
 Analyst: IM
 TCLP/SPLP Extraction Date: 12/08/20 06:55

Extraction Method: EPA 3510C
 Extraction Date: 12/15/20 18:50

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Semivolatiles by EPA 1312 - Westborough Lab for sample(s): 01,03-04 Batch: WG1445550-1					
2,4-Dichlorophenol	ND		ug/l	5.0	0.53
2,4-Dimethylphenol	ND		ug/l	5.0	1.1
2-Nitrophenol	ND		ug/l	10	0.46
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	3.6
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4
Pentachlorophenol	ND		ug/l	10	2.0
Phenol	ND		ug/l	5.0	1.3
2-Methylphenol	ND		ug/l	5.0	1.1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.70
Carbazole	ND		ug/l	2.0	0.76
Pyridine	ND		ug/l	3.5	0.90

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	72		41-149

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/18/20 18:35
Analyst: SG
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 12/18/20 07:40

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-02 Batch: WG1446532-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	2.00	0.452
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	2.00	0.245
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	3.33	F	ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	2.00	1.12
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/18/20 18:35
Analyst: SG
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 12/18/20 07:40

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-02 Batch: WG1446532-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	78		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	78		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	72		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	79		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	77		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	82		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	80		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	76		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	53		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/18/20 18:52
Analyst: SG
TCLP/SPLP Extraction Date: 12/12/20 14:27

Extraction Method: ALPHA 23528
Extraction Date: 12/18/20 07:40

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-02 Batch: WG1446532-6					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.83	0.374
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.83	0.363
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.83	0.218
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	1.83	0.414
Perfluorohexanoic Acid (PFHxA)	0.429	JF	ng/l	1.83	0.301
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.83	0.225
Perfluoroheptanoic Acid (PFHpA)	1.32	J	ng/l	1.83	0.206
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.83	0.345
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.83	0.216
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.83	1.22
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.83	0.631
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.83	0.286
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.83	0.462
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.83	0.279
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.83	1.11
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.83	1.03
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.83	0.594
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.83	0.238
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.83	0.898
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.83	0.532
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.83	0.737
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.83	0.341
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.83	0.300
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.83	0.227

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/18/20 18:52
Analyst: SG
TCLP/SPLP Extraction Date: 12/12/20 14:27

Extraction Method: ALPHA 23528
Extraction Date: 12/18/20 07:40

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01-02 Batch: WG1446532-6					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	78		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	75		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	67		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	81		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	72		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	68		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	4		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	57		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/20/20 08:40
Analyst: WR
TCLP/SPLP Extraction Date: 12/13/20 14:27

Extraction Method: EPA 3510C
Extraction Date: 12/19/20 21:59

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Semivolatiles by EPA 1312 - Westborough Lab for sample(s): 02 Batch: WG1447256-1					
Acenaphthene	ND		ug/l	2.0	1.1
Benzidine	ND		ug/l	20	8.1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.58
Hexachlorobenzene	ND		ug/l	2.0	0.69
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88
2-Chloronaphthalene	ND		ug/l	2.0	0.54
1,2-Dichlorobenzene	ND		ug/l	2.0	0.64
1,3-Dichlorobenzene	ND		ug/l	2.0	0.64
1,4-Dichlorobenzene	ND		ug/l	2.0	0.46
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37
Azobenzene	ND		ug/l	2.0	0.81
Fluoranthene	ND		ug/l	2.0	0.65
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5
Hexachlorobutadiene	ND		ug/l	2.0	0.60
Hexachlorocyclopentadiene	ND		ug/l	20	0.61
Hexachloroethane	ND		ug/l	2.0	0.44
Isophorone	ND		ug/l	5.0	0.66
Naphthalene	ND		ug/l	2.0	0.67
Nitrobenzene	ND		ug/l	2.0	0.66
NDPA/DPA	ND		ug/l	2.0	0.65
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	2.2
Di-n-butylphthalate	ND		ug/l	5.0	0.58

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/20/20 08:40
Analyst: WR
TCLP/SPLP Extraction Date: 12/13/20 14:27

Extraction Method: EPA 3510C
Extraction Date: 12/19/20 21:59

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Semivolatiles by EPA 1312 - Westborough Lab for sample(s): 02 Batch: WG1447256-1					
Di-n-octylphthalate	ND		ug/l	5.0	2.4
Diethyl phthalate	ND		ug/l	5.0	4.3
Dimethyl phthalate	ND		ug/l	5.0	4.4
Benzo(a)anthracene	ND		ug/l	2.0	0.77
Benzo(a)pyrene	ND		ug/l	2.0	0.45
Benzo(b)fluoranthene	ND		ug/l	2.0	0.81
Benzo(k)fluoranthene	ND		ug/l	2.0	0.82
Chrysene	ND		ug/l	2.0	0.83
Acenaphthylene	ND		ug/l	2.0	0.59
Anthracene	ND		ug/l	2.0	0.79
Benzo(ghi)perylene	ND		ug/l	2.0	0.77
Fluorene	ND		ug/l	2.0	1.0
Phenanthrene	ND		ug/l	2.0	0.99
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.45
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.94
Pyrene	ND		ug/l	2.0	0.70
Biphenyl	ND		ug/l	2.0	0.64
Aniline	ND		ug/l	2.0	0.48
4-Chloroaniline	ND		ug/l	5.0	0.65
1-Methylnaphthalene	ND		ug/l	2.0	0.60
2-Nitroaniline	ND		ug/l	5.0	0.52
3-Nitroaniline	ND		ug/l	5.0	0.57
4-Nitroaniline	ND		ug/l	5.0	0.58
Dibenzofuran	ND		ug/l	2.0	0.82
2-Methylnaphthalene	ND		ug/l	2.0	0.68
n-Nitrosodimethylamine	ND		ug/l	2.0	0.52
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49
p-Chloro-m-cresol	ND		ug/l	2.0	0.41
2-Chlorophenol	ND		ug/l	2.0	0.40

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/20/20 08:40
Analyst: WR
TCLP/SPLP Extraction Date: 12/13/20 14:27

Extraction Method: EPA 3510C
Extraction Date: 12/19/20 21:59

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Semivolatiles by EPA 1312 - Westborough Lab for sample(s): 02 Batch: WG1447256-1					
2,4-Dichlorophenol	ND		ug/l	5.0	0.53
2,4-Dimethylphenol	ND		ug/l	5.0	1.1
2-Nitrophenol	ND		ug/l	10	0.46
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	3.6
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4
Pentachlorophenol	ND		ug/l	10	2.0
Phenol	ND		ug/l	5.0	1.3
2-Methylphenol	ND		ug/l	5.0	1.1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.70
Carbazole	ND		ug/l	2.0	0.76
Pyridine	ND		ug/l	3.5	0.90

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	97		10-120
4-Terphenyl-d14	100		41-149

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/23/20 06:48
Analyst: RS
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 12/21/20 12:00

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 05 Batch: WG1447672-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	2.00	0.452
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	2.00	0.245
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	2.00	1.12
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/23/20 06:48
Analyst: RS
TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528
Extraction Date: 12/21/20 12:00

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 05 Batch: WG1447672-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	123		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	130		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	90		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	117		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	109		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	114		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	103		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	85		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	59		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/23/20 08:11
Analyst: RS
TCLP/SPLP Extraction Date: 12/18/20 17:04

Extraction Method: ALPHA 23528
Extraction Date: 12/21/20 12:00

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 05 Batch: WG1447672-5					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.86	0.379
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.86	0.367
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.86	0.221
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	1.86	0.419
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.86	0.304
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.86	0.228
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.86	0.209
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.86	0.349
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.86	0.219
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.86	1.24
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.86	0.638
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.86	0.290
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.86	0.468
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.86	0.282
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.86	1.12
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.86	1.04
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.86	0.601
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.86	0.241
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.86	0.909
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.86	0.538
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.86	0.746
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.86	0.345
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.86	0.304
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.86	0.230

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/23/20 08:11
Analyst: RS
TCLP/SPLP Extraction Date: 12/18/20 17:04

Extraction Method: ALPHA 23528
Extraction Date: 12/21/20 12:00

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 05 Batch: WG1447672-5					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	126		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	139		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	92		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	121		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	114		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	109		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	119		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	106		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	92		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	20		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	88		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		33-143

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/24/20 06:35
Analyst: SZ
TCLP/SPLP Extraction Date: 12/19/20 14:40

Extraction Method: EPA 3510C
Extraction Date: 12/23/20 21:15

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Semivolatiles by EPA 1312 - Westborough Lab for sample(s): 05 Batch: WG1448815-1					
Acenaphthene	ND		ug/l	2.0	1.1
Benzidine	ND		ug/l	20	8.1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.58
Hexachlorobenzene	ND		ug/l	2.0	0.69
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88
2-Chloronaphthalene	ND		ug/l	2.0	0.54
1,2-Dichlorobenzene	ND		ug/l	2.0	0.64
1,3-Dichlorobenzene	ND		ug/l	2.0	0.64
1,4-Dichlorobenzene	ND		ug/l	2.0	0.46
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37
Azobenzene	ND		ug/l	2.0	0.81
Fluoranthene	ND		ug/l	2.0	0.65
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5
Hexachlorobutadiene	ND		ug/l	2.0	0.60
Hexachlorocyclopentadiene	ND		ug/l	20	0.61
Hexachloroethane	ND		ug/l	2.0	0.44
Isophorone	ND		ug/l	5.0	0.66
Naphthalene	ND		ug/l	2.0	0.67
Nitrobenzene	ND		ug/l	2.0	0.66
NDPA/DPA	ND		ug/l	2.0	0.65
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	2.2
Di-n-butylphthalate	ND		ug/l	5.0	0.58

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/24/20 06:35
Analyst: SZ
TCLP/SPLP Extraction Date: 12/19/20 14:40

Extraction Method: EPA 3510C
Extraction Date: 12/23/20 21:15

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Semivolatiles by EPA 1312 - Westborough Lab for sample(s): 05 Batch: WG1448815-1					
Di-n-octylphthalate	ND		ug/l	5.0	2.4
Diethyl phthalate	ND		ug/l	5.0	4.3
Dimethyl phthalate	ND		ug/l	5.0	4.4
Benzo(a)anthracene	ND		ug/l	2.0	0.77
Benzo(a)pyrene	ND		ug/l	2.0	0.45
Benzo(b)fluoranthene	ND		ug/l	2.0	0.81
Benzo(k)fluoranthene	ND		ug/l	2.0	0.82
Chrysene	ND		ug/l	2.0	0.83
Acenaphthylene	ND		ug/l	2.0	0.59
Anthracene	ND		ug/l	2.0	0.79
Benzo(ghi)perylene	ND		ug/l	2.0	0.77
Fluorene	ND		ug/l	2.0	1.0
Phenanthrene	ND		ug/l	2.0	0.99
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.45
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.94
Pyrene	ND		ug/l	2.0	0.70
Biphenyl	ND		ug/l	2.0	0.64
Aniline	ND		ug/l	2.0	0.48
4-Chloroaniline	ND		ug/l	5.0	0.65
1-Methylnaphthalene	ND		ug/l	2.0	0.60
2-Nitroaniline	ND		ug/l	5.0	0.52
3-Nitroaniline	ND		ug/l	5.0	0.57
4-Nitroaniline	ND		ug/l	5.0	0.58
Dibenzofuran	ND		ug/l	2.0	0.82
2-Methylnaphthalene	ND		ug/l	2.0	0.68
n-Nitrosodimethylamine	ND		ug/l	2.0	0.52
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49
p-Chloro-m-cresol	ND		ug/l	2.0	0.41
2-Chlorophenol	ND		ug/l	2.0	0.40

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 12/24/20 06:35
Analyst: SZ
TCLP/SPLP Extraction Date: 12/19/20 14:40

Extraction Method: EPA 3510C
Extraction Date: 12/23/20 21:15

Parameter	Result	Qualifier	Units	RL	MDL
SPLP Semivolatiles by EPA 1312 - Westborough Lab for sample(s): 05 Batch: WG1448815-1					
2,4-Dichlorophenol	ND		ug/l	5.0	0.53
2,4-Dimethylphenol	ND		ug/l	5.0	1.1
2-Nitrophenol	ND		ug/l	10	0.46
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	3.6
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4
Pentachlorophenol	ND		ug/l	10	2.0
Phenol	ND		ug/l	5.0	1.3
2-Methylphenol	ND		ug/l	5.0	1.1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.70
Carbazole	ND		ug/l	2.0	0.76
Pyridine	ND		ug/l	3.5	0.90

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	66		41-149

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 12/14/20 14:56
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 03 Batch: WG1451440-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	70	18.
Bis(2-chloroethyl)ether	ND		ug/kg	70	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	70	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	70	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Azobenzene	ND		ug/kg	170	16.
Fluoranthene	ND		ug/kg	100	19.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	70	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachloroethane	ND		ug/kg	70	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	24.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	57.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	31.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.
Dimethyl phthalate	ND		ug/kg	70	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 12/14/20 14:56
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 03 Batch: WG1451440-1					
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	70	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Aniline	ND		ug/kg	200	78.
4-Chloroaniline	ND		ug/kg	170	30.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	70	20.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	70	31.
2-Chlorophenol	ND		ug/kg	70	20.
2,4-Dichlorophenol	ND		ug/kg	70	27.
2,4-Dimethylphenol	ND		ug/kg	70	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
Pentachlorophenol	ND		ug/kg	330	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 12/14/20 14:56
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 03 Batch: WG1451440-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		30-130
Phenol-d6	91		30-130
Nitrobenzene-d5	95		30-130
2-Fluorobiphenyl	81		30-130
2,4,6-Tribromophenol	84		30-130
4-Terphenyl-d14	92		30-130

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/14/20 14:56
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 12/13/20 01:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1451486-1					
Benzyl Alcohol	ND		ug/kg	170	51.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1442230-2 WG1442230-3								
Perfluorobutanoic Acid (PFBA)	118		118		71-135	0		30
Perfluoropentanoic Acid (PFPeA)	125		122		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	123		125		72-128	2		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	166	Q	170	Q	62-145	2		30
Perfluorohexanoic Acid (PFHxA)	121		121		70-132	0		30
Perfluoropentanesulfonic Acid (PFPeS)	122		118		73-123	3		30
Perfluoroheptanoic Acid (PFHpA)	115		115		71-131	0		30
Perfluorohexanesulfonic Acid (PFHxS)	122		121		67-130	1		30
Perfluorooctanoic Acid (PFOA)	119		118		69-133	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	129		130		64-140	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	121		124		70-132	2		30
Perfluorononanoic Acid (PFNA)	113		111		72-129	2		30
Perfluorooctanesulfonic Acid (PFOS)	135		128		68-136	5		30
Perfluorodecanoic Acid (PFDA)	119		119		69-133	0		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	148	Q	148	Q	65-137	0		30
Perfluorononanesulfonic Acid (PFNS)	131	Q	135	Q	69-125	3		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	108		97		63-144	11		30
Perfluoroundecanoic Acid (PFUnA)	122		125		64-136	2		30
Perfluorodecanesulfonic Acid (PFDS)	138	Q	142	Q	59-134	3		30
Perfluorooctanesulfonamide (FOSA)	113		111		67-137	2		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	116		107		61-139	8		30
Perfluorododecanoic Acid (PFDoA)	118		117		69-135	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1442230-2 WG1442230-3								
Perfluorotridecanoic Acid (PFTrDA)	118		116		66-139	2		30
Perfluorotetradecanoic Acid (PFTA)	163	Q	161	Q	69-133	1		30

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		85		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		104		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		93		70-151
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	122		124		56-138
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		95		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		97		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		102		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84		86		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106		108		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		91		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		87		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		87		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	102		113		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	76		81		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		95		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	46		49		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		71		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		91		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	57		59		26-160

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 03-04 Batch: WG1444345-2 WG1444345-3								
Perfluorobutanoic Acid (PFBA)	101		101		67-148	0		30
Perfluoropentanoic Acid (PFPeA)	101		101		63-161	0		30
Perfluorobutanesulfonic Acid (PFBS)	101		104		65-157	3		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	119		122		37-219	2		30
Perfluorohexanoic Acid (PFHxA)	102		103		69-168	1		30
Perfluoropentanesulfonic Acid (PFPeS)	100		102		52-156	2		30
Perfluoroheptanoic Acid (PFHpA)	100		98		58-159	2		30
Perfluorohexanesulfonic Acid (PFHxS)	103		102		69-177	1		30
Perfluorooctanoic Acid (PFOA)	98		97		63-159	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	108		116		49-187	7		30
Perfluoroheptanesulfonic Acid (PFHpS)	108		105		61-179	3		30
Perfluorononanoic Acid (PFNA)	92		91		68-171	1		30
Perfluorooctanesulfonic Acid (PFOS)	106		111		52-151	5		30
Perfluorodecanoic Acid (PFDA)	102		100		63-171	2		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	125		118		56-173	6		30
Perfluorononanesulfonic Acid (PFNS)	106		110		48-150	4		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	100		88		60-166	13		30
Perfluoroundecanoic Acid (PFUnA)	103		103		60-153	0		30
Perfluorodecanesulfonic Acid (PFDS)	105		116		38-156	10		30
Perfluorooctanesulfonamide (FOSA)	94		95		46-170	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	102		101		45-170	1		30
Perfluorododecanoic Acid (PFDoA)	104		105		67-153	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 03-04 Batch: WG1444345-2 WG1444345-3								
Perfluorotridecanoic Acid (PFTrDA)	108		108		48-158	0		30
Perfluorotetradecanoic Acid (PFTA)	119		116		59-182	3		30

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		95		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	115		113		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		105		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	149		150		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	109		107		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		104		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		105		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		98		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	125		125		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102		104		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		95		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		94		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	129		140		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	91		104		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		100		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	40		39		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	93		89		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		100		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		77		33-143

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1444455-2 WG1444455-3								
Acenaphthene	81		79		40-140	3		30
1,2,4-Trichlorobenzene	81		79		40-140	3		30
Hexachlorobenzene	81		80		40-140	1		30
Bis(2-chloroethyl)ether	90		83		40-140	8		30
2-Chloronaphthalene	80		77		40-140	4		30
1,2-Dichlorobenzene	80		76		40-140	5		30
1,3-Dichlorobenzene	78		73		40-140	7		30
1,4-Dichlorobenzene	78		73		40-140	7		30
3,3'-Dichlorobenzidine	53		52		40-140	2		30
2,4-Dinitrotoluene	104		101		40-140	3		30
2,6-Dinitrotoluene	96		91		40-140	5		30
Azobenzene	94		89		40-140	5		30
Fluoranthene	86		84		40-140	2		30
4-Bromophenyl phenyl ether	88		87		40-140	1		30
Bis(2-chloroisopropyl)ether	119		102		40-140	15		30
Bis(2-chloroethoxy)methane	95		85		40-140	11		30
Hexachlorobutadiene	81		79		40-140	3		30
Hexachloroethane	88		80		40-140	10		30
Isophorone	93		85		40-140	9		30
Naphthalene	82		79		40-140	4		30
Nitrobenzene	98		90		40-140	9		30
Bis(2-ethylhexyl)phthalate	106		101		40-140	5		30
Butyl benzyl phthalate	104		102		40-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1444455-2 WG1444455-3								
Di-n-butylphthalate	100		96		40-140	4		30
Di-n-octylphthalate	102		100		40-140	2		30
Diethyl phthalate	91		88		40-140	3		30
Dimethyl phthalate	82		78		40-140	5		30
Benzo(a)anthracene	78		77		40-140	1		30
Benzo(a)pyrene	83		83		40-140	0		30
Benzo(b)fluoranthene	81		79		40-140	3		30
Benzo(k)fluoranthene	76		80		40-140	5		30
Chrysene	82		80		40-140	2		30
Acenaphthylene	79		75		40-140	5		30
Anthracene	84		82		40-140	2		30
Benzo(ghi)perylene	79		80		40-140	1		30
Fluorene	84		81		40-140	4		30
Phenanthrene	83		81		40-140	2		30
Dibenzo(a,h)anthracene	79		79		40-140	0		30
Indeno(1,2,3-cd)pyrene	81		79		40-140	3		30
Pyrene	85		84		40-140	1		30
Aniline	64		58		40-140	10		30
4-Chloroaniline	69		66		40-140	4		30
Dibenzofuran	81		78		40-140	4		30
2-Methylnaphthalene	83		79		40-140	5		30
Acetophenone	93		86		40-140	8		30
2,4,6-Trichlorophenol	82		81		30-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1444455-2 WG1444455-3								
2-Chlorophenol	90		83		30-130	8		30
2,4-Dichlorophenol	88		85		30-130	3		30
2,4-Dimethylphenol	88		85		30-130	3		30
2-Nitrophenol	107		102		30-130	5		30
4-Nitrophenol	106		105		30-130	1		30
2,4-Dinitrophenol	58		56		30-130	4		30
Pentachlorophenol	79		82		30-130	4		30
Phenol	81		75		30-130	8		30
2-Methylphenol	91		85		30-130	7		30
3-Methylphenol/4-Methylphenol	100		93		30-130	7		30
2,4,5-Trichlorophenol	84		84		30-130	0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	87		80		30-130
Phenol-d6	93		84		30-130
Nitrobenzene-d5	101		92		30-130
2-Fluorobiphenyl	81		77		30-130
2,4,6-Tribromophenol	83		84		30-130
4-Terphenyl-d14	87		85		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG1444604-2 WG1444604-3								
Acenaphthene	61		60		40-140	2		30
1,2,4-Trichlorobenzene	66		65		40-140	2		30
Hexachlorobenzene	70		68		40-140	3		30
Bis(2-chloroethyl)ether	57		53		40-140	7		30
2-Chloronaphthalene	70		69		40-140	1		30
1,2-Dichlorobenzene	56		55		40-140	2		30
1,3-Dichlorobenzene	57		55		40-140	4		30
1,4-Dichlorobenzene	55		51		40-140	8		30
3,3'-Dichlorobenzidine	53		47		40-140	12		30
2,4-Dinitrotoluene	80		76		40-140	5		30
2,6-Dinitrotoluene	83		80		40-140	4		30
Azobenzene	67		63		40-140	6		30
Fluoranthene	69		69		40-140	0		30
4-Bromophenyl phenyl ether	81		77		40-140	5		30
Bis(2-chloroisopropyl)ether	52		51		40-140	2		30
Bis(2-chloroethoxy)methane	69		67		40-140	3		30
Hexachlorobutadiene	66		67		40-140	2		30
Hexachloroethane	51		51		40-140	0		30
Isophorone	64		61		40-140	5		30
Naphthalene	58		60		40-140	3		30
Nitrobenzene	70		68		40-140	3		30
Bis(2-ethylhexyl)phthalate	70		74		40-140	6		30
Butyl benzyl phthalate	72		72		40-140	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG1444604-2 WG1444604-3								
Di-n-butylphthalate	70		70		40-140	0		30
Di-n-octylphthalate	69		68		40-140	1		30
Diethyl phthalate	74		68		40-140	8		30
Dimethyl phthalate	76		74		40-140	3		30
Benzo(a)anthracene	67		66		40-140	2		30
Benzo(a)pyrene	69		68		40-140	1		30
Benzo(b)fluoranthene	68		67		40-140	1		30
Benzo(k)fluoranthene	57		57		40-140	0		30
Chrysene	60		60		40-140	0		30
Acenaphthylene	70		70		40-140	0		30
Anthracene	61		61		40-140	0		30
Benzo(ghi)perylene	65		65		40-140	0		30
Fluorene	72		68		40-140	6		30
Phenanthrene	64		63		40-140	2		30
Dibenzo(a,h)anthracene	67		65		40-140	3		30
Indeno(1,2,3-cd)pyrene	72		72		40-140	0		30
Pyrene	68		67		40-140	1		30
Aniline	52		50		40-140	4		30
4-Chloroaniline	58		51		40-140	13		30
Dibenzofuran	71		69		40-140	3		30
2-Methylnaphthalene	68		68		40-140	0		30
Acetophenone	79		76		40-140	4		30
2,4,6-Trichlorophenol	89		87		30-130	2		30

Lab Control Sample Analysis Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG1444604-2 WG1444604-3								
2-Chlorophenol	65		62		30-130	5		30
2,4-Dichlorophenol	81		75		30-130	8		30
2,4-Dimethylphenol	69		68		30-130	1		30
2-Nitrophenol	71		69		30-130	3		30
4-Nitrophenol	83		77		30-130	8		30
2,4-Dinitrophenol	62		54		30-130	14		30
Pentachlorophenol	73		68		30-130	7		30
Phenol	67		65		30-130	3		30
2-Methylphenol	66		63		30-130	5		30
3-Methylphenol/4-Methylphenol	71		70		30-130	1		30
2,4,5-Trichlorophenol	82		77		30-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		60		30-130
Phenol-d6	70		67		30-130
Nitrobenzene-d5	71		69		30-130
2-Fluorobiphenyl	72		72		30-130
2,4,6-Tribromophenol	74		70		30-130
4-Terphenyl-d14	69		66		30-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1445550-2 WG1445550-3								
Acenaphthene	68		68		37-111	0		30
Benzidine	25		18		10-75	33	Q	30
1,2,4-Trichlorobenzene	60		58		39-98	3		30
Hexachlorobenzene	74		75		40-140	1		30
Bis(2-chloroethyl)ether	71		66		40-140	7		30
2-Chloronaphthalene	70		69		40-140	1		30
1,2-Dichlorobenzene	56		52		40-140	7		30
1,3-Dichlorobenzene	54		51		40-140	6		30
1,4-Dichlorobenzene	54		51		36-97	6		30
3,3'-Dichlorobenzidine	54		57		40-140	5		30
2,4-Dinitrotoluene	82		81		48-143	1		30
2,6-Dinitrotoluene	81		85		40-140	5		30
Azobenzene	95		96		40-140	1		30
Fluoranthene	74		75		40-140	1		30
4-Chlorophenyl phenyl ether	72		71		40-140	1		30
4-Bromophenyl phenyl ether	74		73		40-140	1		30
Bis(2-chloroisopropyl)ether	112		105		40-140	6		30
Bis(2-chloroethoxy)methane	79		76		40-140	4		30
Hexachlorobutadiene	62		59		40-140	5		30
Hexachlorocyclopentadiene	48		48		40-140	0		30
Hexachloroethane	63		58		40-140	8		30
Isophorone	83		82		40-140	1		30
Naphthalene	64		62		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1445550-2 WG1445550-3								
Nitrobenzene	78		77		40-140	1		30
NDPA/DPA	74		73		40-140	1		30
n-Nitrosodi-n-propylamine	85		82		29-132	4		30
Bis(2-ethylhexyl)phthalate	106		103		40-140	3		30
Butyl benzyl phthalate	101		102		40-140	1		30
Di-n-butylphthalate	92		90		40-140	2		30
Di-n-octylphthalate	101		98		40-140	3		30
Diethyl phthalate	81		83		40-140	2		30
Dimethyl phthalate	78		76		40-140	3		30
Benzo(a)anthracene	73		71		40-140	3		30
Benzo(a)pyrene	82		83		40-140	1		30
Benzo(b)fluoranthene	76		77		40-140	1		30
Benzo(k)fluoranthene	77		78		40-140	1		30
Chrysene	74		72		40-140	3		30
Acenaphthylene	69		70		45-123	1		30
Anthracene	73		72		40-140	1		30
Benzo(ghi)perylene	73		74		40-140	1		30
Fluorene	72		73		40-140	1		30
Phenanthrene	72		71		40-140	1		30
Dibenzo(a,h)anthracene	74		72		40-140	3		30
Indeno(1,2,3-cd)pyrene	77		77		40-140	0		30
Pyrene	73		74		26-127	1		30
Biphenyl	70		68		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1445550-2 WG1445550-3								
Aniline	46		44		40-140	4		30
4-Chloroaniline	75		73		40-140	3		30
1-Methylnaphthalene	79		76		41-103	4		30
2-Nitroaniline	85		83		52-143	2		30
3-Nitroaniline	48		56		25-145	15		30
4-Nitroaniline	75		75		51-143	0		30
Dibenzofuran	69		69		40-140	0		30
2-Methylnaphthalene	65		64		40-140	2		30
n-Nitrosodimethylamine	41		39		22-74	5		30
2,4,6-Trichlorophenol	78		77		30-130	1		30
p-Chloro-m-cresol	85		86		23-97	1		30
2-Chlorophenol	64		60		27-123	6		30
2,4-Dichlorophenol	71		70		30-130	1		30
2,4-Dimethylphenol	62		62		30-130	0		30
2-Nitrophenol	70		67		30-130	4		30
4-Nitrophenol	75		77		10-80	3		30
2,4-Dinitrophenol	70		65		20-130	7		30
4,6-Dinitro-o-cresol	82		87		20-164	6		30
Pentachlorophenol	59		60		9-103	2		30
Phenol	37		35		12-110	6		30
2-Methylphenol	60		58		30-130	3		30
3-Methylphenol/4-Methylphenol	61		62		30-130	2		30
2,4,5-Trichlorophenol	79		80		30-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1445550-2 WG1445550-3								
Benzoic Acid	41		41		10-164	0		30
Benzyl Alcohol	69		69		26-116	0		30
Carbazole	74		74		55-144	0		30
Pyridine	34		28		10-66	19		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	44		41		21-120
Phenol-d6	35		34		10-120
Nitrobenzene-d5	79		76		23-120
2-Fluorobiphenyl	69		68		15-120
2,4,6-Tribromophenol	82		81		10-120
4-Terphenyl-d14	74		74		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1446532-2 WG1446532-3								
Perfluorobutanoic Acid (PFBA)	119		118		67-148	1		30
Perfluoropentanoic Acid (PFPeA)	125		123		63-161	2		30
Perfluorobutanesulfonic Acid (PFBS)	121		126		65-157	4		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	161		162		37-219	1		30
Perfluorohexanoic Acid (PFHxA)	121		117		69-168	3		30
Perfluoropentanesulfonic Acid (PFPeS)	117		119		52-156	2		30
Perfluoroheptanoic Acid (PFHpA)	115		112		58-159	3		30
Perfluorohexanesulfonic Acid (PFHxS)	121		120		69-177	1		30
Perfluorooctanoic Acid (PFOA)	120		116		63-159	3		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	126		130		49-187	3		30
Perfluoroheptanesulfonic Acid (PFHpS)	138		129		61-179	7		30
Perfluorononanoic Acid (PFNA)	113		114		68-171	1		30
Perfluorooctanesulfonic Acid (PFOS)	138		134		52-151	3		30
Perfluorodecanoic Acid (PFDA)	121		118		63-171	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	168		149		56-173	12		30
Perfluorononanesulfonic Acid (PFNS)	136		135		48-150	1		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	109		99		60-166	10		30
Perfluoroundecanoic Acid (PFUnA)	126		121		60-153	4		30
Perfluorodecanesulfonic Acid (PFDS)	133		131		38-156	2		30
Perfluorooctanesulfonamide (FOSA)	117		107		46-170	9		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	140		128		45-170	9		30
Perfluorododecanoic Acid (PFDoA)	122		118		67-153	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1446532-2 WG1446532-3								
Perfluorotridecanoic Acid (PFTrDA)	122		113		48-158	8		30
Perfluorotetradecanoic Acid (PFTA)	173		163		59-182	6		30

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		81		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		106		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		94		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	81		89		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		89		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		91		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		99		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	82		83		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	73		79		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		88		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	78		81		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		80		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	71		82		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		71		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	81		85		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	33		36		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	52		55		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		84		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54		56		33-143

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 02 Batch: WG1447256-2 WG1447256-3								
Acenaphthene	69		81		37-111	16		30
Benzidine	8	Q	0	Q	10-75	NC		30
1,2,4-Trichlorobenzene	65		74		39-98	13		30
Hexachlorobenzene	82		98		40-140	18		30
Bis(2-chloroethyl)ether	71		80		40-140	12		30
2-Chloronaphthalene	70		80		40-140	13		30
1,2-Dichlorobenzene	65		73		40-140	12		30
1,3-Dichlorobenzene	66		73		40-140	10		30
1,4-Dichlorobenzene	65		73		36-97	12		30
3,3'-Dichlorobenzidine	61		50		40-140	20		30
2,4-Dinitrotoluene	74		85		48-143	14		30
2,6-Dinitrotoluene	75		88		40-140	16		30
Azobenzene	67		78		40-140	15		30
Fluoranthene	75		88		40-140	16		30
4-Chlorophenyl phenyl ether	73		85		40-140	15		30
4-Bromophenyl phenyl ether	77		91		40-140	17		30
Bis(2-chloroisopropyl)ether	64		71		40-140	10		30
Bis(2-chloroethoxy)methane	73		83		40-140	13		30
Hexachlorobutadiene	69		77		40-140	11		30
Hexachlorocyclopentadiene	47		56		40-140	17		30
Hexachloroethane	60		69		40-140	14		30
Isophorone	69		80		40-140	15		30
Naphthalene	70		78		40-140	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 02 Batch: WG1447256-2 WG1447256-3								
Nitrobenzene	66		74		40-140	11		30
NDPA/DPA	71		83		40-140	16		30
n-Nitrosodi-n-propylamine	71		81		29-132	13		30
Bis(2-ethylhexyl)phthalate	78		94		40-140	19		30
Butyl benzyl phthalate	78		92		40-140	16		30
Di-n-butylphthalate	79		94		40-140	17		30
Di-n-octylphthalate	80		95		40-140	17		30
Diethyl phthalate	70		84		40-140	18		30
Dimethyl phthalate	70		84		40-140	18		30
Benzo(a)anthracene	74		87		40-140	16		30
Benzo(a)pyrene	73		88		40-140	19		30
Benzo(b)fluoranthene	74		90		40-140	20		30
Benzo(k)fluoranthene	74		88		40-140	17		30
Chrysene	72		86		40-140	18		30
Acenaphthylene	75		86		45-123	14		30
Anthracene	75		88		40-140	16		30
Benzo(ghi)perylene	74		90		40-140	20		30
Fluorene	70		83		40-140	17		30
Phenanthrene	73		87		40-140	18		30
Dibenzo(a,h)anthracene	77		93		40-140	19		30
Indeno(1,2,3-cd)pyrene	76		92		40-140	19		30
Pyrene	77		90		26-127	16		30
Biphenyl	75		87		40-140	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 02 Batch: WG1447256-2 WG1447256-3								
Aniline	22	Q	6	Q	40-140	114	Q	30
4-Chloroaniline	30	Q	21	Q	40-140	35	Q	30
1-Methylnaphthalene	62		71		41-103	14		30
2-Nitroaniline	74		87		52-143	16		30
3-Nitroaniline	50		48		25-145	4		30
4-Nitroaniline	66		78		51-143	17		30
Dibenzofuran	70		82		40-140	16		30
2-Methylnaphthalene	70		79		40-140	12		30
n-Nitrosodimethylamine	40		46		22-74	14		30
2,4,6-Trichlorophenol	79		92		30-130	15		30
p-Chloro-m-cresol	70		83		23-97	17		30
2-Chlorophenol	71		81		27-123	13		30
2,4-Dichlorophenol	75		85		30-130	13		30
2,4-Dimethylphenol	70		66		30-130	6		30
2-Nitrophenol	74		82		30-130	10		30
4-Nitrophenol	41		51		10-80	22		30
2,4-Dinitrophenol	75		88		20-130	16		30
4,6-Dinitro-o-cresol	73		87		20-164	18		30
Pentachlorophenol	81		97		9-103	18		30
Phenol	33		37		12-110	11		30
2-Methylphenol	63		70		30-130	11		30
3-Methylphenol/4-Methylphenol	59		67		30-130	13		30
2,4,5-Trichlorophenol	78		91		30-130	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 02 Batch: WG1447256-2 WG1447256-3								
Benzoic Acid	48		57		10-164	17		30
Benzyl Alcohol	54		61		26-116	12		30
Carbazole	77		90		55-144	16		30
Pyridine	14		8	Q	10-66	60	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		58		21-120
Phenol-d6	34		39		10-120
Nitrobenzene-d5	71		80		23-120
2-Fluorobiphenyl	78		87		15-120
2,4,6-Tribromophenol	92		108		10-120
4-Terphenyl-d14	89		105		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 05 Batch: WG1447672-2 WG1447672-3								
Perfluorobutanoic Acid (PFBA)	96		98		67-148	2		30
Perfluoropentanoic Acid (PFPeA)	96		98		63-161	2		30
Perfluorobutanesulfonic Acid (PFBS)	92		96		65-157	4		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	96		96		37-219	0		30
Perfluorohexanoic Acid (PFHxA)	98		100		69-168	2		30
Perfluoropentanesulfonic Acid (PFPeS)	108		114		52-156	5		30
Perfluoroheptanoic Acid (PFHpA)	96		97		58-159	1		30
Perfluorohexanesulfonic Acid (PFHxS)	100		102		69-177	2		30
Perfluorooctanoic Acid (PFOA)	95		98		63-159	3		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	104		103		49-187	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	95		98		61-179	3		30
Perfluorononanoic Acid (PFNA)	94		96		68-171	2		30
Perfluorooctanesulfonic Acid (PFOS)	97		99		52-151	2		30
Perfluorodecanoic Acid (PFDA)	98		98		63-171	0		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	105		108		56-173	3		30
Perfluorononanesulfonic Acid (PFNS)	97		102		48-150	5		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	96		94		60-166	2		30
Perfluoroundecanoic Acid (PFUnA)	95		95		60-153	0		30
Perfluorodecanesulfonic Acid (PFDS)	93		93		38-156	0		30
Perfluorooctanesulfonamide (FOSA)	94		102		46-170	8		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	101		104		45-170	3		30
Perfluorododecanoic Acid (PFDoA)	98		105		67-153	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 05 Batch: WG1447672-2 WG1447672-3								
Perfluorotridecanoic Acid (PFTrDA)	101		111		48-158	9		30
Perfluorotetradecanoic Acid (PFTA)	100		102		59-182	2		30

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	109		106		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	126		123		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	138		135		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	98		98		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	124		122		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	116		113		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	113		114		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	109		106		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	93		92		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	119		119		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		110		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108		105		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	111		99		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	94		95		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	113		109		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	74		63		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		85		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		93		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	102		97		33-143

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 05 Batch: WG1448815-2 WG1448815-3								
Acenaphthene	74		67		37-111	10		30
Benzidine	4	Q	2	Q	10-75	87	Q	30
1,2,4-Trichlorobenzene	68		61		39-98	11		30
Hexachlorobenzene	76		72		40-140	5		30
Bis(2-chloroethyl)ether	73		65		40-140	12		30
2-Chloronaphthalene	72		74		40-140	3		30
1,2-Dichlorobenzene	69		62		40-140	11		30
1,3-Dichlorobenzene	69		57		40-140	19		30
1,4-Dichlorobenzene	68		62		36-97	9		30
3,3'-Dichlorobenzidine	52		56		40-140	7		30
2,4-Dinitrotoluene	79		75		48-143	5		30
2,6-Dinitrotoluene	74		78		40-140	5		30
Azobenzene	75		68		40-140	10		30
Fluoranthene	79		83		40-140	5		30
4-Chlorophenyl phenyl ether	75		71		40-140	5		30
4-Bromophenyl phenyl ether	75		76		40-140	1		30
Bis(2-chloroisopropyl)ether	70		58		40-140	19		30
Bis(2-chloroethoxy)methane	71		62		40-140	14		30
Hexachlorobutadiene	71		67		40-140	6		30
Hexachlorocyclopentadiene	60		61		40-140	2		30
Hexachloroethane	67		55		40-140	20		30
Isophorone	68		63		40-140	8		30
Naphthalene	73		66		40-140	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 05 Batch: WG1448815-2 WG1448815-3								
Nitrobenzene	72		68		40-140	6		30
NDPA/DPA	75		70		40-140	7		30
n-Nitrosodi-n-propylamine	71		62		29-132	14		30
Bis(2-ethylhexyl)phthalate	82		76		40-140	8		30
Butyl benzyl phthalate	83		84		40-140	1		30
Di-n-butylphthalate	81		82		40-140	1		30
Di-n-octylphthalate	85		78		40-140	9		30
Diethyl phthalate	77		73		40-140	5		30
Dimethyl phthalate	74		77		40-140	4		30
Benzo(a)anthracene	76		70		40-140	8		30
Benzo(a)pyrene	81		77		40-140	5		30
Benzo(b)fluoranthene	79		72		40-140	9		30
Benzo(k)fluoranthene	77		76		40-140	1		30
Chrysene	79		74		40-140	7		30
Acenaphthylene	71		72		45-123	1		30
Anthracene	79		71		40-140	11		30
Benzo(ghi)perylene	77		74		40-140	4		30
Fluorene	75		71		40-140	5		30
Phenanthrene	80		74		40-140	8		30
Dibenzo(a,h)anthracene	75		73		40-140	3		30
Indeno(1,2,3-cd)pyrene	77		73		40-140	5		30
Pyrene	79		82		26-127	4		30
Biphenyl	76		78		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD Limits	
	%Recovery	Qual	%Recovery	Qual				
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 05 Batch: WG1448815-2 WG1448815-3								
Aniline	21	Q	16	Q	40-140	27	30	
4-Chloroaniline	39	Q	41		40-140	5	30	
1-Methylnaphthalene	72		71		41-103	1	30	
2-Nitroaniline	80		85		52-143	6	30	
3-Nitroaniline	53		56		25-145	6	30	
4-Nitroaniline	72		69		51-143	4	30	
Dibenzofuran	74		74		40-140	0	30	
2-Methylnaphthalene	72		73		40-140	1	30	
n-Nitrosodimethylamine	47		44		22-74	7	30	
2,4,6-Trichlorophenol	78		83		30-130	6	30	
p-Chloro-m-cresol	77		80		23-97	4	30	
2-Chlorophenol	73		65		27-123	12	30	
2,4-Dichlorophenol	75		70		30-130	7	30	
2,4-Dimethylphenol	64		53		30-130	19	30	
2-Nitrophenol	75		67		30-130	11	30	
4-Nitrophenol	57		56		10-80	2	30	
2,4-Dinitrophenol	87		86		20-130	1	30	
4,6-Dinitro-o-cresol	91		86		20-164	6	30	
Pentachlorophenol	80		87		9-103	8	30	
Phenol	39		36		12-110	8	30	
2-Methylphenol	66		59		30-130	11	30	
3-Methylphenol/4-Methylphenol	63		56		30-130	12	30	
2,4,5-Trichlorophenol	76		81		30-130	6	30	

Lab Control Sample Analysis Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
SPLP Semivolatiles by EPA 1312 - Westborough Lab Associated sample(s): 05 Batch: WG1448815-2 WG1448815-3								
Benzoic Acid	42		42		10-164	0		30
Benzyl Alcohol	62		60		26-116	3		30
Carbazole	79		77		55-144	3		30
Pyridine	13		6	Q	10-66	72	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	55		52		21-120
Phenol-d6	39		35		10-120
Nitrobenzene-d5	71		68		23-120
2-Fluorobiphenyl	71		75		15-120
2,4,6-Tribromophenol	75		74		10-120
4-Terphenyl-d14	76		80		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG1451440-2 WG1451440-3								
Acenaphthene	81		79		40-140	3		30
1,2,4-Trichlorobenzene	81		79		40-140	3		30
Hexachlorobenzene	81		80		40-140	1		30
Bis(2-chloroethyl)ether	90		83		40-140	8		30
2-Chloronaphthalene	80		77		40-140	4		30
1,2-Dichlorobenzene	80		76		40-140	5		30
1,3-Dichlorobenzene	78		73		40-140	7		30
1,4-Dichlorobenzene	78		73		40-140	7		30
3,3'-Dichlorobenzidine	53		52		40-140	2		30
2,4-Dinitrotoluene	104		101		40-140	3		30
2,6-Dinitrotoluene	96		91		40-140	5		30
Azobenzene	94		89		40-140	5		30
Fluoranthene	86		84		40-140	2		30
4-Bromophenyl phenyl ether	88		87		40-140	1		30
Bis(2-chloroisopropyl)ether	119		102		40-140	15		30
Bis(2-chloroethoxy)methane	95		85		40-140	11		30
Hexachlorobutadiene	81		79		40-140	3		30
Hexachloroethane	88		80		40-140	10		30
Isophorone	93		85		40-140	9		30
Naphthalene	82		79		40-140	4		30
Nitrobenzene	98		90		40-140	9		30
Bis(2-ethylhexyl)phthalate	106		101		40-140	5		30
Butyl benzyl phthalate	104		102		40-140	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG1451440-2 WG1451440-3								
Di-n-butylphthalate	100		96		40-140	4		30
Di-n-octylphthalate	102		100		40-140	2		30
Diethyl phthalate	91		88		40-140	3		30
Dimethyl phthalate	82		78		40-140	5		30
Benzo(a)anthracene	78		77		40-140	1		30
Benzo(a)pyrene	83		83		40-140	0		30
Benzo(b)fluoranthene	81		79		40-140	3		30
Benzo(k)fluoranthene	76		80		40-140	5		30
Chrysene	82		80		40-140	2		30
Acenaphthylene	79		75		40-140	5		30
Anthracene	84		82		40-140	2		30
Benzo(ghi)perylene	79		80		40-140	1		30
Fluorene	84		81		40-140	4		30
Phenanthrene	83		81		40-140	2		30
Dibenzo(a,h)anthracene	79		79		40-140	0		30
Indeno(1,2,3-cd)pyrene	81		79		40-140	3		30
Pyrene	85		84		40-140	1		30
Aniline	64		58		40-140	10		30
4-Chloroaniline	69		66		40-140	4		30
Dibenzofuran	81		78		40-140	4		30
2-Methylnaphthalene	83		79		40-140	5		30
Acetophenone	93		86		40-140	8		30
2,4,6-Trichlorophenol	82		81		30-130	1		30

Lab Control Sample Analysis Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG1451440-2 WG1451440-3								
2-Chlorophenol	90		83		30-130	8		30
2,4-Dichlorophenol	88		85		30-130	3		30
2,4-Dimethylphenol	88		85		30-130	3		30
2-Nitrophenol	107		102		30-130	5		30
4-Nitrophenol	106		105		30-130	1		30
2,4-Dinitrophenol	58		56		30-130	4		30
Pentachlorophenol	79		82		30-130	4		30
Phenol	81		75		30-130	8		30
2-Methylphenol	91		85		30-130	7		30
3-Methylphenol/4-Methylphenol	100		93		30-130	7		30
2,4,5-Trichlorophenol	84		84		30-130	0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	87		80		30-130
Phenol-d6	93		84		30-130
Nitrobenzene-d5	101		92		30-130
2-Fluorobiphenyl	81		77		30-130
2,4,6-Tribromophenol	83		84		30-130
4-Terphenyl-d14	87		85		30-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1451486-2 WG1451486-3								
Benzyl Alcohol	95		86		40-140	10		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		80		25-120
Phenol-d6	93		84		10-120
Nitrobenzene-d5	101		92		23-120
2-Fluorobiphenyl	81		77		30-120
2,4,6-Tribromophenol	83		84		10-136
4-Terphenyl-d14	87		85		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1442230-4 QC Sample: L2052415-03 Client ID: BROCK FILL												
Perfluorobutanoic Acid (PFBA)	ND	13.8	16.8	122		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	0.455J	13.8	17.3	125		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	12.2	15.0	122		-	-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	12.9	21.7	168	Q	-	-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	ND	13.8	16.0	116		-	-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	13	16.2	125	Q	-	-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	13.8	16.1	117		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	12.6	14.9	118		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	13.8	16.2F	117		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	13.1	17.3F	132		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	13.1	16.4	125		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	13.8	14.2	103		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	12.8	16.5	129		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	13.8	16.3	118		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	13.2	17.8F	134		-	-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	13.3	16.6	125		-	-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	13.8	13.8F	100		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	13.8	17.4	126		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	13.3	17.1	129		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	13.8	15.7	114		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	13.8	16.8	122		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	13.8	16.2	117		-	-		69-135	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1442230-4 QC Sample: L2052415-03 Client ID: BROCK FILL												
Perfluorotridecanoic Acid (PFTTrDA)	ND	13.8	14.8	107		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTTA)	ND	13.8	22.5	163	Q	-	-		69-133	-		30

<i>Surrogate (Extracted Internal Standard)</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	581	Q			25-186
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	521	Q			56-138
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	661	Q			32-182
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	169	Q			42-136
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	181	Q			45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUODA)	97				64-158
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89				65-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89				61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98				62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109				63-166
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104				56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	60				26-160
Perfluoro[13C4]Butanoic Acid (MPFBA)	84				60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	81				65-182
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24				1-125
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89				65-151
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88				62-152
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104				61-154
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105				70-151

Matrix Spike Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1444345-4 QC Sample: L2052415-03 Client ID: BROCK FILL												
Perfluorobutanoic Acid (PFBA)	ND	35.9	55.8	155	Q	-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	ND	35.9	31.3	87		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	31.9	32.5	102		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	33.6	44.2	131		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	2.88F	35.9	40.5	105		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	33.8	39.8	118		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	5.01F	35.9	40.2	98		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	32.8	34.6	105		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	ND	35.9	34.6F	96		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	34.2	38.8F	113		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	34.2	33.1	97		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	35.9	30.4	85		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	33.3	36.0	108		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	35.9	37.5	104		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	34.5	41.1F	119		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	34.6	35.2	102		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	35.9	29.0F	81		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	35.9	36.1	100		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	34.6	30.8	89		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	35.9	33.6	94		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	35.9	36.6	102		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	35.9	36.2	101		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1444345-4 QC Sample: L2052415-03 Client ID: BROCK FILL												
Perfluorotridecanoic Acid (PFTrDA)	ND	35.9	24.5	68		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	35.9	43.0	120		-	-		59-182	-		30

<i>Surrogate (Extracted Internal Standard)</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	618	Q			7-170
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	377	Q			1-313
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	489	Q			1-244
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	112				23-146
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	127				1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUOA)	90				40-144
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91				38-144
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88				21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102				30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	80				47-153
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89				24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	35				33-143
Perfluoro[13C4]Butanoic Acid (MPFBA)	96				2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	56				16-173
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28				1-87
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98				42-146
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94				36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	196	Q			34-146
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97				31-159

Matrix Spike Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1446532-4 QC Sample: L2052415-01 Client ID: GREENFIELD TURF												
Perfluorobutanoic Acid (PFBA)	1.39J	36.3	41.5	110		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	2.01	36.3	43.9	115		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	32.3	37.2	115		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	34	57.0	168		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	0.803J	36.3	41.2	111		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	34.2	35.9	105		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	0.545J	36.3	39.4	107		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	33.2	37.3	112		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	0.471JFB	36.3	40.7F	111		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	34.6	42.6F	123		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	34.6	43.7	126		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	36.3	39.7	109		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	33.7	44.0F	130		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	36.3	40.9	113		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	34.9	49.8F	143		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	35	35.0	100		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	36.3	32.6F	90		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	36.3	41.1	113		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	2.07F	35	45.7	125		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	36.3	37.1	102		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	36.3	40.4	111		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	36.3	41.7	115		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1446532-4 QC Sample: L2052415-01 Client ID: GREENFIELD TURF												
Perfluorotridecanoic Acid (PFTDA)	ND	36.3	31.4	86		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	36.3	54.6	150		-	-		59-182	-		30

<i>Surrogate (Extracted Internal Standard)</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	511	Q			7-170
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	845	Q			1-313
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	744	Q			1-244
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	158	Q			23-146
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	343	Q			1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUOA)	182	Q			40-144
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88				38-144
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	74				21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95				30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110				47-153
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	113				24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71				33-143
Perfluoro[13C4]Butanoic Acid (MPFBA)	89				2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	117				16-173
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43				1-87
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84				42-146
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89				36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91				34-146
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98				31-159

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1442230-5 QC Sample: L2052415-04 Client ID: REYNOLDS 775 GLUE						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.40F	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1442230-5 QC Sample: L2052415-04 Client ID: REYNOLDS 775 GLUE						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		86		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	107		103		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		91		70-151
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	147	Q	133		56-138
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		97		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		98		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		101		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		86		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	125		107		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		91		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		84		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		88		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	142		143		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	331	Q	305	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		98		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45		37		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	96		88		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		93		56-148

Lab Duplicate Analysis
Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1442230-5 QC Sample: L2052415-04 Client ID: REYNOLDS 775 GLUE						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59		54		26-160

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1444345-5 QC Sample: L2052415-04 Client ID: REYNOLDS 775 GLUE						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1444345-5 QC Sample: L2052415-04 Client ID: REYNOLDS 775 GLUE						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		92		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		112		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		99		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	181		153		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		97		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		96		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		103		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		94		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	192		162		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		94		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		93		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		90		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	149		146		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	261	Q	289	Q	1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		99		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	4		12		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		90		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		81		24-161

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 03-04 QC Batch ID: WG1444345-5 QC Sample: L2052415-04 Client ID: REYNOLDS 775 GLUE						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	60		60		33-143

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1446532-5 QC Sample: L2052415-02 Client ID: BROCK SHOCK PAD						
Perfluorobutanoic Acid (PFBA)	1.84	1.65J	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	1.52J	1.48J	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	1.03J	1.13J	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	1.00J	1.02J	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	0.403JFB	0.355JF	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1446532-5 QC Sample: L2052415-02 Client ID: BROCK SHOCK PAD						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	74		79		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		111		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		93		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	96		91		1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		87		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		100		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		101		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77		83		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	102		87		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		88		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		84		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		82		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	160		96		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		60		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		93		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	8		13		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		64		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		88		24-161

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1446532-5 QC Sample: L2052415-02 Client ID: BROCK SHOCK PAD						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		58		33-143

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1447672-4 QC Sample: L2052415-05 Client ID: MAPEI ULTRA BOND						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	0.395J	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1447672-4 QC Sample: L2052415-05 Client ID: MAPEI ULTRA BOND						
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		95		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	126		116		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	134		128		31-159
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	332	Q	342	Q	1-313
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	124		113		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	123		111		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		112		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		96		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	103		100		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	120		109		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	114		110		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		95		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	135		126		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	91		73		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119		107		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		17		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		90		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	109		102		24-161

Lab Duplicate Analysis
Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1447672-4 QC Sample: L2052415-05 Client ID: MAPEI ULTRA BOND						

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		82		33-143

METALS

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
 Client ID: GREENFIELD TURF
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

TCLP/SPLP Ext. Date: 12/08/20 06:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Antimony, SPLP	0.009	J	mg/l	0.050	0.007	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Arsenic, SPLP	ND		mg/l	0.005	0.002	1	12/18/20 11:13	12/19/20 14:44	EPA 3005A	1,6010D	BV
Barium, SPLP	0.016	J	mg/l	0.050	0.002	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Beryllium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Cadmium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Chromium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Lead, SPLP	0.007	J	mg/l	0.010	0.003	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	12/18/20 11:34	12/20/20 09:06	EPA 7470A	1,7470A	EW
Nickel, SPLP	ND		mg/l	0.025	0.002	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Selenium, SPLP	ND		mg/l	0.010	0.004	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Silver, SPLP	ND		mg/l	0.007	0.003	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Thallium, SPLP	ND		mg/l	0.020	0.003	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Vanadium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD
Zinc, SPLP	ND		mg/l	0.200	0.002	1	12/18/20 11:13	12/19/20 10:17	EPA 3005A	1,6010D	GD



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
 Client ID: GREENFIELD TURF
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	1.96	0.149	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Arsenic, Total	ND		mg/kg	0.392	0.082	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Barium, Total	0.110	J	mg/kg	0.392	0.068	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Beryllium, Total	ND		mg/kg	0.196	0.013	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Cadmium, Total	ND		mg/kg	0.392	0.039	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Chromium, Total	0.102	J	mg/kg	0.392	0.038	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Lead, Total	ND		mg/kg	1.96	0.105	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Mercury, Total	ND		mg/kg	0.073	0.073	1	12/16/20 05:40	12/16/20 11:37	EPA 7471B	97,7471B	VW
Nickel, Total	0.118	J	mg/kg	0.981	0.095	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Selenium, Total	ND		mg/kg	1.96	0.101	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Silver, Total	ND		mg/kg	0.392	0.111	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Thallium, Total	ND		mg/kg	1.96	0.124	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Vanadium, Total	ND		mg/kg	0.392	0.080	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV
Zinc, Total	9.49		mg/kg	1.96	0.115	1	12/16/20 06:30	12/16/20 18:19	EPA 3050B	97,6010D	BV



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

TCLP/SPLP Ext. Date: 12/13/20 14:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Antimony, SPLP	0.008	J	mg/l	0.050	0.007	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Arsenic, SPLP	ND		mg/l	0.005	0.002	1	12/18/20 11:13	12/19/20 15:02	EPA 3005A	1,6010D	BV
Barium, SPLP	0.042	J	mg/l	0.050	0.002	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Beryllium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Cadmium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Chromium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Lead, SPLP	ND		mg/l	0.010	0.003	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	12/18/20 11:34	12/20/20 09:16	EPA 7470A	1,7470A	EW
Nickel, SPLP	0.006	J	mg/l	0.025	0.002	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Selenium, SPLP	ND		mg/l	0.010	0.004	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Silver, SPLP	ND		mg/l	0.007	0.003	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Thallium, SPLP	ND		mg/l	0.020	0.003	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Vanadium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD
Zinc, SPLP	0.374		mg/l	0.200	0.002	1	12/18/20 11:13	12/19/20 10:35	EPA 3005A	1,6010D	GD



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
 Client ID: BROCK SHOCK PAD
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	0.384	J	mg/kg	3.42	0.260	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Arsenic, Total	ND		mg/kg	0.685	0.142	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Barium, Total	0.144	J	mg/kg	0.685	0.119	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Beryllium, Total	ND		mg/kg	0.342	0.023	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Cadmium, Total	ND		mg/kg	0.685	0.067	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Chromium, Total	0.342	J	mg/kg	0.685	0.066	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Lead, Total	0.199	J	mg/kg	3.42	0.184	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Mercury, Total	ND		mg/kg	0.072	0.072	1	12/16/20 05:40	12/16/20 11:40	EPA 7471B	97,7471B	VW
Nickel, Total	ND		mg/kg	1.71	0.166	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Selenium, Total	ND		mg/kg	3.42	0.177	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Silver, Total	ND		mg/kg	0.685	0.194	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Thallium, Total	ND		mg/kg	3.42	0.216	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Vanadium, Total	ND		mg/kg	0.685	0.139	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV
Zinc, Total	7.24		mg/kg	3.42	0.201	1	12/16/20 06:30	12/16/20 18:33	EPA 3050B	97,6010D	BV



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
 Client ID: BROCK FILL
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

TCLP/SPLP Ext. Date: 12/08/20 06:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Antimony, SPLP	ND		mg/l	0.050	0.007	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Arsenic, SPLP	ND		mg/l	0.005	0.002	1	12/18/20 11:13	12/19/20 15:07	EPA 3005A	1,6010D	BV
Barium, SPLP	0.112		mg/l	0.050	0.002	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Beryllium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Cadmium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Chromium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Lead, SPLP	0.005	J	mg/l	0.010	0.003	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	12/18/20 11:34	12/20/20 09:19	EPA 7470A	1,7470A	EW
Nickel, SPLP	ND		mg/l	0.025	0.002	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Selenium, SPLP	ND		mg/l	0.010	0.004	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Silver, SPLP	ND		mg/l	0.007	0.003	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Thallium, SPLP	ND		mg/l	0.020	0.003	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Vanadium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD
Zinc, SPLP	0.105	J	mg/l	0.200	0.002	1	12/18/20 11:13	12/19/20 10:40	EPA 3005A	1,6010D	GD



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
 Client ID: BROCK FILL
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	1.91	0.145	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Arsenic, Total	ND		mg/kg	0.381	0.079	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Barium, Total	5.61		mg/kg	0.381	0.066	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Beryllium, Total	ND		mg/kg	0.191	0.013	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Cadmium, Total	0.042	J	mg/kg	0.381	0.037	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Chromium, Total	ND		mg/kg	0.381	0.037	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Lead, Total	ND		mg/kg	1.91	0.102	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Mercury, Total	ND		mg/kg	0.072	0.072	1	12/16/20 05:40	12/16/20 11:43	EPA 7471B	97,7471B	VW
Nickel, Total	ND		mg/kg	0.953	0.092	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Selenium, Total	0.656	J	mg/kg	1.91	0.098	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Silver, Total	ND		mg/kg	0.381	0.108	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Thallium, Total	ND		mg/kg	1.91	0.120	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Vanadium, Total	ND		mg/kg	0.381	0.077	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV
Zinc, Total	5.71		mg/kg	1.91	0.112	1	12/16/20 06:30	12/16/20 18:38	EPA 3050B	97,6010D	BV



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

TCLP/SPLP Ext. Date: 12/08/20 06:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Antimony, SPLP	ND		mg/l	0.050	0.007	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Arsenic, SPLP	ND		mg/l	0.005	0.002	1	12/18/20 11:13	12/19/20 15:12	EPA 3005A	1,6010D	BV
Barium, SPLP	0.033	J	mg/l	0.050	0.002	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Beryllium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Cadmium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Chromium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Lead, SPLP	0.004	J	mg/l	0.010	0.003	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	12/18/20 11:34	12/20/20 09:22	EPA 7470A	1,7470A	EW
Nickel, SPLP	ND		mg/l	0.025	0.002	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Selenium, SPLP	ND		mg/l	0.010	0.004	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Silver, SPLP	ND		mg/l	0.007	0.003	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Thallium, SPLP	ND		mg/l	0.020	0.003	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Vanadium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD
Zinc, SPLP	ND		mg/l	0.200	0.002	1	12/18/20 11:13	12/19/20 10:45	EPA 3005A	1,6010D	GD



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
 Client ID: REYNOLDS 775 GLUE
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	1.88	0.142	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Arsenic, Total	ND		mg/kg	0.375	0.078	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Barium, Total	36.2		mg/kg	0.375	0.065	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Beryllium, Total	ND		mg/kg	0.188	0.012	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Cadmium, Total	ND		mg/kg	0.375	0.037	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Chromium, Total	ND		mg/kg	0.375	0.036	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Lead, Total	ND		mg/kg	1.88	0.100	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Mercury, Total	ND		mg/kg	0.073	0.073	1	12/16/20 05:40	12/16/20 11:47	EPA 7471B	97,7471B	VW
Nickel, Total	ND		mg/kg	0.938	0.091	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Selenium, Total	ND		mg/kg	1.88	0.097	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Silver, Total	ND		mg/kg	0.375	0.106	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Thallium, Total	ND		mg/kg	1.88	0.118	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Vanadium, Total	ND		mg/kg	0.375	0.076	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV
Zinc, Total	ND		mg/kg	1.88	0.110	1	12/16/20 06:30	12/16/20 18:42	EPA 3050B	97,6010D	BV



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05
 Client ID: MAPEI ULTRA BOND
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 12/19/20 14:40
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab											
Antimony, SPLP	ND		mg/l	0.050	0.007	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Arsenic, SPLP	ND		mg/l	0.005	0.002	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Barium, SPLP	0.044	J	mg/l	0.050	0.002	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Beryllium, SPLP	ND		mg/l	0.005	0.001	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Cadmium, SPLP	ND		mg/l	0.005	0.001	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Chromium, SPLP	ND		mg/l	0.010	0.002	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Lead, SPLP	ND		mg/l	0.010	0.003	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	12/21/20 15:18	12/22/20 15:28	EPA 7470A	1,7470A	EW
Nickel, SPLP	ND		mg/l	0.025	0.002	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Selenium, SPLP	ND		mg/l	0.010	0.004	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Silver, SPLP	ND		mg/l	0.007	0.003	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Thallium, SPLP	ND		mg/l	0.020	0.003	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Vanadium, SPLP	ND		mg/l	0.010	0.002	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV
Zinc, SPLP	0.085		mg/l	0.200	0.002	1	12/21/20 14:40	12/21/20 17:41	EPA 3005A	1,6010D	BV



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-05
 Client ID: MAPEI ULTRA BOND
 Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 10:30
 Date Received: 11/24/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Solid
 Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	1.87	0.142	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Arsenic, Total	0.307	J	mg/kg	0.375	0.078	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Barium, Total	1.08		mg/kg	0.375	0.065	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Beryllium, Total	ND		mg/kg	0.187	0.012	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Cadmium, Total	ND		mg/kg	0.375	0.037	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Chromium, Total	1.17		mg/kg	0.375	0.036	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Lead, Total	0.142	J	mg/kg	1.87	0.100	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Mercury, Total	ND		mg/kg	0.074	0.074	1	12/16/20 05:40	12/16/20 11:57	EPA 7471B	97,7471B	VW
Nickel, Total	0.330	J	mg/kg	0.937	0.091	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Selenium, Total	0.315	J	mg/kg	1.87	0.097	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Silver, Total	ND		mg/kg	0.375	0.106	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Thallium, Total	ND		mg/kg	1.87	0.118	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Vanadium, Total	0.176	J	mg/kg	0.375	0.076	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV
Zinc, Total	12.7		mg/kg	1.87	0.110	1	12/16/20 06:30	12/16/20 18:47	EPA 3050B	97,6010D	BV



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1445645-1									
Mercury, Total	ND	mg/kg	0.083	0.083	1	12/16/20 05:40	12/16/20 11:20	97,7471B	VW

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
MCP Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1445646-1										
Antimony, Total	0.196	J	mg/kg	2.00	0.152	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Chromium, Total	ND		mg/kg	0.400	0.038	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Selenium, Total	ND		mg/kg	2.00	0.103	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Thallium, Total	ND		mg/kg	2.00	0.126	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/16/20 06:30	12/16/20 11:13	97,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
SPLP Metals by EPA 1312 - Mansfield Lab for sample(s): 01-04 Batch: WG1445852-1										
Antimony, SPLP	ND		mg/l	0.050	0.007	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Arsenic, SPLP	ND		mg/l	0.005	0.002	1	12/18/20 11:13	12/19/20 14:35	1,6010D	BV
Barium, SPLP	0.022	J	mg/l	0.050	0.002	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Beryllium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Cadmium, SPLP	ND		mg/l	0.005	0.001	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Chromium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Lead, SPLP	ND		mg/l	0.010	0.003	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Nickel, SPLP	0.006	J	mg/l	0.025	0.002	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Selenium, SPLP	ND		mg/l	0.010	0.004	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Silver, SPLP	ND		mg/l	0.007	0.003	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Thallium, SPLP	ND		mg/l	0.020	0.003	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Vanadium, SPLP	ND		mg/l	0.010	0.002	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD
Zinc, SPLP	0.108	J	mg/l	0.200	0.002	1	12/18/20 11:13	12/19/20 10:08	1,6010D	GD

Prep Information

Digestion Method: EPA 3005A
TCLP/SPLP Extraction Date: 12/08/20 06:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab for sample(s): 01-04 Batch: WG1445853-1										
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	12/18/20 11:34	12/20/20 08:59	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 12/08/00 06:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab for sample(s): 05 Batch: WG1447646-1										
Antimony, SPLP	ND		mg/l	0.050	0.007	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Arsenic, SPLP	ND		mg/l	0.005	0.002	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Barium, SPLP	0.027	J	mg/l	0.050	0.002	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Beryllium, SPLP	ND		mg/l	0.005	0.001	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Cadmium, SPLP	ND		mg/l	0.005	0.001	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Chromium, SPLP	ND		mg/l	0.010	0.002	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Lead, SPLP	ND		mg/l	0.010	0.003	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Nickel, SPLP	ND		mg/l	0.025	0.002	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Selenium, SPLP	ND		mg/l	0.010	0.004	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis Batch Quality Control

Silver, SPLP	ND		mg/l	0.007	0.003	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Thallium, SPLP	ND		mg/l	0.020	0.003	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Vanadium, SPLP	ND		mg/l	0.010	0.002	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV
Zinc, SPLP	0.025	J	mg/l	0.200	0.002	1	12/21/20 14:40	12/21/20 17:32	1,6010D	BV

Prep Information

Digestion Method: EPA 3005A
TCLP/SPLP Extraction Date: 12/19/20 14:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
SPLP Metals by EPA 1312 - Mansfield Lab for sample(s): 05 Batch: WG1447647-1										
Mercury, SPLP	ND		mg/l	0.00020	0.00009	1	12/21/20 15:18	12/22/20 15:22	1,7470A	EW

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 12/19/20 14:40

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1445645-2 WG1445645-3 SRM Lot Number: D109-540								
Mercury, Total	78		84		60-140	7		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1445646-2 WG1445646-3 SRM Lot Number: D109-540								
Antimony, Total	145		134		19-250	8		30
Arsenic, Total	93		93		70-130	0		30
Barium, Total	90		91		75-125	1		30
Beryllium, Total	86		86		75-125	0		30
Cadmium, Total	90		86		75-125	5		30
Chromium, Total	88		87		70-130	1		30
Lead, Total	85		85		72-128	0		30
Nickel, Total	86		84		70-130	2		30
Selenium, Total	90		90		68-132	0		30
Silver, Total	93		95		68-131	2		30
Thallium, Total	87		86		68-131	1		30
Vanadium, Total	90		90		59-141	0		30
Zinc, Total	86		85		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01-04 Batch: WG1445852-2					
Antimony, SPLP	109	-	80-120	-	
Arsenic, SPLP	109	-	80-120	-	
Barium, SPLP	103	-	80-120	-	
Beryllium, SPLP	105	-	80-120	-	
Cadmium, SPLP	106	-	80-120	-	
Chromium, SPLP	102	-	80-120	-	
Lead, SPLP	104	-	80-120	-	
Nickel, SPLP	96	-	80-120	-	
Selenium, SPLP	104	-	80-120	-	
Silver, SPLP	98	-	80-120	-	
Thallium, SPLP	102	-	80-120	-	
Vanadium, SPLP	104	-	80-120	-	
Zinc, SPLP	126	Q	80-120	-	
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01-04 Batch: WG1445853-2					
Mercury, SPLP	81	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 05 Batch: WG1447646-2					
Antimony, SPLP	107	-	80-120	-	
Arsenic, SPLP	108	-	80-120	-	
Barium, SPLP	104	-	80-120	-	
Beryllium, SPLP	107	-	80-120	-	
Cadmium, SPLP	109	-	80-120	-	
Chromium, SPLP	104	-	80-120	-	
Lead, SPLP	102	-	80-120	-	
Nickel, SPLP	99	-	80-120	-	
Selenium, SPLP	108	-	80-120	-	
Silver, SPLP	100	-	80-120	-	
Thallium, SPLP	106	-	80-120	-	
Vanadium, SPLP	104	-	80-120	-	
Zinc, SPLP	111	-	80-120	-	
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 05 Batch: WG1447647-2					
Mercury, SPLP	94	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1445852-3 QC Sample: L2052415-01 Client ID: GREENFIELD TURF												
Antimony, SPLP	0.009J	0.5	0.559	112	-	-	-	-	75-125	-	-	20
Arsenic, SPLP	ND	0.12	0.133	111	-	-	-	-	75-125	-	-	20
Barium, SPLP	0.016J	2	2.06	103	-	-	-	-	75-125	-	-	20
Beryllium, SPLP	ND	0.05	0.053	106	-	-	-	-	75-125	-	-	20
Cadmium, SPLP	ND	0.051	0.054	106	-	-	-	-	75-125	-	-	20
Chromium, SPLP	ND	0.2	0.208	104	-	-	-	-	75-125	-	-	20
Lead, SPLP	0.007J	0.51	0.533	104	-	-	-	-	75-125	-	-	20
Nickel, SPLP	ND	0.5	0.486	97	-	-	-	-	75-125	-	-	20
Selenium, SPLP	ND	0.12	0.124	103	-	-	-	-	75-125	-	-	20
Silver, SPLP	ND	0.05	0.049	97	-	-	-	-	75-125	-	-	20
Thallium, SPLP	ND	0.12	0.122	102	-	-	-	-	75-125	-	-	20
Vanadium, SPLP	ND	0.5	0.521	104	-	-	-	-	75-125	-	-	20
Zinc, SPLP	ND	2	0.536	107	-	-	-	-	75-125	-	-	20

SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1445853-3 QC Sample: L2052415-01 Client ID: GREENFIELD TURF

Mercury, SPLP	ND	0.005	0.00507	101	-	-	-	-	80-120	-	-	20
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Matrix Spike Analysis Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1447646-3 QC Sample: L2052415-05 Client ID: MAPEI ULTRA BOND									
Antimony, SPLP	ND	0.5	0.530	106	-	-	75-125	-	20
Arsenic, SPLP	ND	0.12	0.130	108	-	-	75-125	-	20
Barium, SPLP	0.044J	2	2.07	104	-	-	75-125	-	20
Beryllium, SPLP	ND	0.05	0.053	105	-	-	75-125	-	20
Cadmium, SPLP	ND	0.051	0.054	105	-	-	75-125	-	20
Chromium, SPLP	ND	0.2	0.200	100	-	-	75-125	-	20
Lead, SPLP	ND	0.51	0.502	98	-	-	75-125	-	20
Nickel, SPLP	ND	0.5	0.479	96	-	-	75-125	-	20
Selenium, SPLP	ND	0.12	0.131	109	-	-	75-125	-	20
Silver, SPLP	ND	0.05	0.050	100	-	-	75-125	-	20
Thallium, SPLP	ND	0.12	0.122	102	-	-	75-125	-	20
Vanadium, SPLP	ND	0.5	0.509	102	-	-	75-125	-	20
Zinc, SPLP	0.085	0.5	0.603	104	-	-	75-125	-	20

SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1447647-3 QC Sample: L2052415-05 Client ID: MAPEI ULTRA BOND

Mercury, SPLP	ND	0.005	0.00474	95	-	-	80-120	-	20
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Lab Duplicate Analysis
Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1445852-4 QC Sample: L2052415-01 Client ID: GREENFIELD TURF						

Arsenic, SPLP	ND	ND	mg/l	NC		20
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SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1445852-4 QC Sample: L2052415-01 Client ID: GREENFIELD TURF						
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Antimony, SPLP	0.009J	0.013J	mg/l	NC		20
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Barium, SPLP	0.016J	0.015J	mg/l	NC		20
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Beryllium, SPLP	ND	ND	mg/l	NC		20
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Cadmium, SPLP	ND	ND	mg/l	NC		20
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Chromium, SPLP	ND	ND	mg/l	NC		20
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Lead, SPLP	0.007J	0.007J	mg/l	NC		20
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Nickel, SPLP	ND	ND	mg/l	NC		20
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Selenium, SPLP	ND	ND	mg/l	NC		20
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Silver, SPLP	ND	ND	mg/l	NC		20
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Thallium, SPLP	ND	ND	mg/l	NC		20
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Vanadium, SPLP	ND	ND	mg/l	NC		20
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Zinc, SPLP	ND	ND	mg/l	NC		20
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SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1445853-4 QC Sample: L2052415-01 Client ID: GREENFIELD TURF						
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Mercury, SPLP	ND	ND	mg/l	NC		20
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Lab Duplicate Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1447646-4 QC Sample: L2052415-05 Client ID: MAPEI ULTRA BOND					
Antimony, SPLP	ND	ND	mg/l	NC	20
Arsenic, SPLP	ND	ND	mg/l	NC	20
Barium, SPLP	0.044J	0.044J	mg/l	NC	20
Beryllium, SPLP	ND	ND	mg/l	NC	20
Cadmium, SPLP	ND	ND	mg/l	NC	20
Chromium, SPLP	ND	ND	mg/l	NC	20
Lead, SPLP	ND	ND	mg/l	NC	20
Nickel, SPLP	ND	ND	mg/l	NC	20
Selenium, SPLP	ND	ND	mg/l	NC	20
Silver, SPLP	ND	ND	mg/l	NC	20
Thallium, SPLP	ND	ND	mg/l	NC	20
Vanadium, SPLP	ND	ND	mg/l	NC	20
Zinc, SPLP	0.085	0.085	mg/l	NC	20
SPLP Metals by EPA 1312 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1447647-4 QC Sample: L2052415-05 Client ID: MAPEI ULTRA BOND					
Mercury, SPLP	ND	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-01
Client ID: GREENFIELD TURF
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 08:45
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	2.00	0.160	1	12/18/20 13:30	12/19/20 14:01	97,7196A	JW



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-02
Client ID: BROCK SHOCK PAD
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:15
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	4.00	0.160	1	12/18/20 13:30	12/19/20 14:01	97,7196A	JW



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-03
Client ID: BROCK FILL
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:30
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	2.00	0.160	1	12/18/20 13:30	12/19/20 14:02	97,7196A	JW



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

SAMPLE RESULTS

Lab ID: L2052415-04
Client ID: REYNOLDS 775 GLUE
Sample Location: EDGARTOWN, MA

Date Collected: 11/24/20 09:45
Date Received: 11/24/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	1.00	0.160	1	12/18/20 13:30	12/19/20 14:02	97,7196A	JW



Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1446813-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	12/18/20 13:30	12/19/20 13:39	97,7196A	JW

Lab Control Sample Analysis

Batch Quality Control

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1446813-2 WG1446813-3								
Chromium, Hexavalent	118		57	Q	70-129	70	Q	20

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2052415-01A	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-HEXCR7196-10(30),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2052415-01B	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2052415-01C	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		HOLD-WETCHEM()
L2052415-01D	Plastic 8oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-01E	Plastic 8oz unpreserved	A	NA		4.5	Y	Absent		A2-537-ISOTOPE(14)
L2052415-01F	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-01G	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-HEXCR7196-10(30),MCP-8270-10(14)
L2052415-01H	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-8270-10(14)
L2052415-01I	Bag	C	NA		4.5	Y	Absent		-
L2052415-01J	Bag	C	NA		4.5	Y	Absent		-
L2052415-01Q	Amber 1000ml unpreserved Extracts	A	NA		4.5	Y	Absent		SPLP-8270(14)
L2052415-01X	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-01X1	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)

Project Name: MVC TURF
Project Number: 143-319629-21001

Lab Number: L2052415
Report Date: 01/07/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2052415-01X2	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-01X3	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-01X9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2052415-01Y	Plastic 250ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		AG-PI(180),SE-PI(180),SB-PI(180),ZN-PI(180),NI-PI(180),TL-PI(180),BA-PI(180),CR-PI(180),PB-PI(180),V-PI(180),BE-PI(180),CD-PI(180),HG-P(28),AS-PI(180)
L2052415-01Y9	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-02A	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2052415-02B	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2052415-02C	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		HOLD-WETCHEM()
L2052415-02D	Plastic 8oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-02E	Plastic 8oz unpreserved	A	NA		4.5	Y	Absent		A2-537-ISOTOPE(14)
L2052415-02F	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-02F1	Bag	A	NA		4.5	Y	Absent		-
L2052415-02F2	Bag	A	NA		4.5	Y	Absent		-
L2052415-02G	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-HEXCR7196-10(30),MCP-8270-10(14)
L2052415-02H	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-8270-10(14)
L2052415-02Q	Amber 1000ml unpreserved Extracts	A	NA		4.5	Y	Absent		SPLP-8270(14)
L2052415-02X	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-02X1	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-02X2	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-02X3	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)

Project Name: MVC TURF
Project Number: 143-319629-21001

Serial_No:01072111:07
Lab Number: L2052415
Report Date: 01/07/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2052415-02X9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2052415-02Y	Plastic 250ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		AG-PI(180),SE-PI(180),SB-PI(180),ZN-PI(180),NI-PI(180),TL-PI(180),V-PI(180),PB-PI(180),CR-PI(180),BA-PI(180),BE-PI(180),AS-PI(180),CD-PI(180),HG-P(28)
L2052415-02Y9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2052415-03A	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2052415-03B	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2052415-03C	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		HOLD-WETCHEM()
L2052415-03D	Plastic 8oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-03E	Plastic 8oz unpreserved	A	NA		4.5	Y	Absent		A2-537-ISOTOPE(14)
L2052415-03F	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-03G	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-HEXCR7196-10(30),MCP-8270-10(14)
L2052415-03H	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-8270-10(14)
L2052415-03I	Bag	C	NA		4.5	Y	Absent		-
L2052415-03Q	Amber 1000ml unpreserved Extracts	A	NA		4.5	Y	Absent		SPLP-8270(14)
L2052415-03X	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-03X1	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-03X2	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-03X3	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-03X9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2052415-03Y	Plastic 250ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		AG-PI(180),SE-PI(180),SB-PI(180),ZN-PI(180),NI-PI(180),TL-PI(180),BE-PI(180),BA-PI(180),CR-PI(180),PB-PI(180),V-PI(180),CD-PI(180),HG-P(28),AS-PI(180)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2052415-03Y9	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-04A	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2052415-04B	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-PB-6010T-10(180),MCP-NI-6010T-10(180)
L2052415-04C	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		HOLD-WETCHEM()
L2052415-04D	Plastic 8oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-04E	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		A2-537-ISOTOPE(14)
L2052415-04F	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-HEXCR7196-10(30),MCP-8270-10(14)
L2052415-04G	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-8270-10(14)
L2052415-04Q	Amber 1000ml unpreserved Extracts	A	NA		4.5	Y	Absent		SPLP-8270(14)
L2052415-04X	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-04X1	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-04X2	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-04X3	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-04X9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2052415-04Y	Plastic 250ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		AG-PI(180),SE-PI(180),SB-PI(180),ZN-PI(180),TL-PI(180),NI-PI(180),BA-PI(180),PB-PI(180),CR-PI(180),V-PI(180),BE-PI(180),HG-P(28),AS-PI(180),CD-PI(180)
L2052415-04Y9	Tumble Vessel	A	NA		4.5	Y	Absent		-

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2052415-05A	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2052415-05B	Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2052415-05C	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		HOLD-WETCHEM()
L2052415-05D	Plastic 8oz unpreserved	A	NA		4.5	Y	Absent		A2-537-ISOTOPE(14)
L2052415-05E	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		-
L2052415-05F	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-8270-10(14),HOLD-WETCHEM()
L2052415-05G	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		MCP-8270-10(14)
L2052415-05Q	Amber 1000ml unpreserved Extracts	A	NA		4.5	Y	Absent		HOLD-WETCHEM()
L2052415-05X	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-05X1	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-05X2	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-05X3	Plastic 250ml unpreserved Extracts	A	NA		4.5	Y	Absent		A2-SPLP-537-ISOTOPE(14)
L2052415-05X9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2052415-05Y	Plastic 250ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		HOLD-WETCHEM(),SB-PI(180),ZN-PI(180),TL-PI(180),NI-PI(180),BE-PI(180),V-PI(180)
L2052415-06A	Other container unpreserved	B	NA		3.7	Y	Absent		-
L2052415-06B	Other container unpreserved	B	NA		3.7	Y	Absent		-

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 11/24/20

ALPHA Job #: L2052415

Client Information

Client: TETRA TECH
Address: 100 NICHOLSON ROAD
MARLBOROUGH MA
Phone: 508-561-6843
Fax:
Email: RON.MYRIUK@TETRA TECH.COM

Project Information

Project Name: MVC TURF
Project Location: EDGEMOUNT MA
Project #: 143-319629-21001
Project Manager: MYRIUK
ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: Time:

Other Project Specific Requirements/Comments/Detection Limits:

* HOLD ALL SAMPLES UNTIL RELEASE BY PM
* LEACHABLE TOLP OR SPLD TO BE DETERMINE
* * * TOP ASSAY, TOF, & VOL ANALYSES HOLD UNTIL EXPCTD

ANALYSIS										SAMPLE HANDLING		TOTAL # BOTTLES
PFAS 537 ISODIOL	PFAS 537 SOLP ISODIOL	TOTAL SOLS	MCMH METALS	TRIMETHYLAHM METALS	TOTAL PAHs	TOTAL LX PREVIOUS TO PAHs	TOTAL OIL/GRAO	VOCs	OTHER	Filtration	Preservation	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/> Done	<input type="checkbox"/> Lab to do	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/> Not needed	<input type="checkbox"/> Lab to do	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/> Lab to do	<input type="checkbox"/> Lab to do	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments								
		Date	Time			PFAS 537 ISODIOL	PFAS 537 SOLP ISODIOL	TOTAL SOLS	MCMH METALS	TRIMETHYLAHM METALS	TOTAL PAHs	TOTAL LX PREVIOUS TO PAHs	TOTAL OIL/GRAO	VOCs	OTHER									
52415-01	GREENFIELD TURF	11/24/20	845	SOLTD	RSN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
-02	BLOCK STOCK PAD	11/24/20	915	SOLSD	RCN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
-03	BLOCK FILL	11/23/20	930	SOLSD	RCN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
-04	REYNOLDS 775 GLUE	11/24/20	945	SOLSD	AKM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
-05	MAPEI ULTRA BOND	11/24/20	1030	SEAL- SOLSD	RM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2-PART EPOXY MIXED 15 MINUTES BEFORE SAMPLING	
<p>DIRECT SAMPLES TO PHIL BASSIGNANI ARTIFICIAL TURF PROJECT</p>																								

NO IVE - SAMPLED
JUST PAID TO PICK
UP BY COURIER

Container Type	P P P A A A	B A A A	
Preservative	- - - - -	- - -	
Relinquished By:	Date/Time	Received By:	Date/Time
	11/24/20/1030	T. G. ...	11/24/20/1050
	11/24/20/1140		11/24/20/1140

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

