NAVFAC
Naval Facilities Engineering Command

Groundwater Sample Results, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG TK1739

Naval Station Newport
Newport, Rhode Island

August 2019

"LCSWKL15IMW1","6020A","RES","LCSWKL15IMW1","KAS","7440-38-2","ARSENIC","101","ug/L","","2.3","MDL","","SPK","101.2","","5.0","PQL","YES","100","LCSWKL15IMW1","","","4.0",""
"LCSWKL15IMW1","6020A","RES","LCSWKL15IMW1","KAS","7440-43-9","CADMIUM","265","ug/L","","0.030","MDL","","SPK","105.9","","1.0","PQL","YES","250","LCSWKL15IMW1","","","0.20",""
"LCSWKL15IMW1","6020A","RES","LCSWKL15IMW1","KAS","7439-92-1","LEAD","102","ug/L","","0.074","MDL","","SPK","102.4","","1.0","PQL","YES","100","LCSWKL15IMW1","","","0.50",""
"LCSWKL15IMW1","6020A","RES","LCSWKL15IMW1","KAS","7439-96-5","MANGANESE","500","ug/L","","0.35","MDL","","SPK","100.0","","2.0","PQL","YES","500","LCSWKL15IMW1","","","1.0",""
"PBWKL15IMW1","6020A","RES","PBWKL15IMW1","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","PBWKL15IMW1","","","4.0",""
"PBWKL15IMW1","6020A","RES","PBWKL15IMW1","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.030","MDL","","TRG","","","1.0","PQL","YES","0","PBWKL15IMW1","","","0.20",""
"PBWKL15IMW1","6020A","RES","PBWKL15IMW1","KAS","7439-92-1","LEAD","0.50","ug/L","U","0.074","MDL","","TRG","","","1.0","PQL","YES","0","PBWKL15IMW1","","","0.50",""
"PBWKL15IMW1","6020A","RES","PBWKL15IMW1","KAS","7439-96-5","MANGANESE","1.0","ug/L","U","0.35","MDL","","TRG","","","2.0","PQL","YES","0","PBWKL15IMW1","","","1.0",""
"G32-MW303B-121217","6020A","RES","TK1739-002","KAS","7440-38-2","ARSENIC","14","ug/L","","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW303B-121217","","","4.0",""
"G32-MW303B-121217","6020A","RES","TK1739-002","KAS","7440-43-9","CADMIUM","0.24","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW303B-121217","","","0.20",""
"G32-MW303B-121217","6020A","RES","TK1739-002","KAS","7439-92-1","LEAD","1.10","ug/L","","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW303B-121217","","","0.50",""
"G32-MW303B-121217","6020A","RES","TK1739-002","KAS","7439-96-5","MANGANESE","1120","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G32-MW303B-121217","","","1.0",""
"G32-MW303B-121217","6020A","RES","TK1739-003","KAS","7440-38-2","ARSENIC","6.5","ug/L","","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW303B-121217","","","4.0",""
"G32-MW303B-121217","6020A","RES","TK1739-003","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW303B-121217","","","0.20",""
"G32-MW303B-121217","6020A","RES","TK1739-003","KAS","7439-92-1","LEAD","0.50","ug/L","U","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW303B-121217","","","0.50",""
"G32-MW303B-121217","6020A","RES","TK1739-003","KAS","7439-96-5","MANGANESE","1080","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G32-MW303B-121217","","","1.0",""
"GI-MW402-121217","6020A","RES","TK1739-004","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW402-121217","","","4.0",""
"GI-MW402-121217","6020A","RES","TK1739-004","KAS","7440-43-9","CADMIUM","0.092","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW402-

121217","","","0.20",""
"GI-MW402-121217","6020A","RES","TK1739-004","KAS","7439-92-
1","LEAD","0.51","ug/L","J","0.075","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW402-
121217","","","0.50",""
"GI-MW402-121217","6020A","RES","TK1739-004","KAS","7439-96-
5","MANGANESE","133","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","GI-MW402-
121217","","","1.0",""
"GI-MW402-121217","6020A","RES","TK1739-005","KAS","7440-38-
2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW402-
121217","","","4.0",""
"GI-MW402-121217","6020A","RES","TK1739-005","KAS","7440-43-
9","CADMIUM","0.072","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW402-
121217","","","0.20",""
"GI-MW402-121217","6020A","RES","TK1739-005","KAS","7439-92-
1","LEAD","0.16","ug/L","J","0.075","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW402-
121217","","","0.50",""
"GI-MW402-121217","6020A","RES","TK1739-005","KAS","7439-96-
5","MANGANESE","129","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","GI-MW402-
121217","","","1.0",""
"G32-MW306SR-121217","6020A","RES","TK1739-006","KAS","7440-38-
2","ARSENIC","3.8","ug/L","J","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW306SR-
121217","","","4.0",""
"G32-MW306SR-121217","6020A","RES","TK1739-006","KAS","7440-43-
9","CADMIUM","0.030","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306SR-
121217","","","0.20",""
"G32-MW306SR-121217","6020A","RES","TK1739-006","KAS","7439-92-
1","LEAD","0.14","ug/L","J","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306SR-
121217","","","0.50",""
"G32-MW306SR-121217","6020A","RES","TK1739-006","KAS","7439-96-
5","MANGANESE","1040","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G32-MW306SR-
121217","","","1.0",""
"G32-MW306SR-121217","6020A","RES","TK1739-007","KAS","7440-38-
2","ARSENIC","5.6","ug/L","","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW306SR-
121217","","","4.0",""
"G32-MW306SR-121217","6020A","RES","TK1739-007","KAS","7440-43-
9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306SR-
121217","","","0.20",""
"G32-MW306SR-121217","6020A","RES","TK1739-007","KAS","7439-92-
1","LEAD","0.50","ug/L","U","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306SR-
121217","","","0.50",""
"G32-MW306SR-121217","6020A","RES","TK1739-007","KAS","7439-96-
5","MANGANESE","1020","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G32-MW306SR-
121217","","","1.0",""
"G44S-MW207-121217","6020A","RES","TK1739-008","KAS","7440-38-
2","ARSENIC","4.6","ug/L","J","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G44S-MW207-
121217","","","4.0",""
"G44S-MW207-121217","6020A","RES","TK1739-008","KAS","7440-43-
9","CADMIUM","0.534","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW207-
121217","","","0.20",""
"G44S-MW207-121217","6020A","RES","TK1739-008","KAS","7439-92-
1","LEAD","2.73","ug/L","","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW207-
121217","","","0.50",""
"G44S-MW207-121217","6020A","RES","TK1739-008","KAS","7439-96-
5","MANGANESE","264","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G44S-MW207-

121217","","","1.0",""
"G44S-MW207-121217","6020A","RES","TK1739-009","KAS","7440-38-
2","ARSENIC","4.3","ug/L","J","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G44S-MW207-
121217","","","4.0",""
"G44S-MW207-121217","6020A","RES","TK1739-009","KAS","7440-43-
9","CADMIUM","0.466","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW207-
121217","","","0.20",""
"G44S-MW207-121217","6020A","RES","TK1739-009","KAS","7439-92-
1","LEAD","1.41","ug/L","","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW207-
121217","","","0.50",""
"G44S-MW207-121217","6020A","RES","TK1739-009","KAS","7439-96-
5","MANGANESE","202","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G44S-MW207-
121217","","","1.0",""
"GI-MW403-121217","6020A","RES","TK1739-010","KAS","7440-38-
2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW403-
121217","","","4.0",""
"GI-MW403-121217","6020A","RES","TK1739-010","KAS","7440-43-
9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW403-
121217","","","0.20",""
"GI-MW403-121217","6020A","RES","TK1739-010","KAS","7439-92-
1","LEAD","0.17","ug/L","J","0.075","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW403-
121217","","","0.50",""
"GI-MW403-121217","6020A","RES","TK1739-010","KAS","7439-96-
5","MANGANESE","146","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","GI-MW403-
121217","","","1.0",""
"GI-MW403-121217","6020A","RES","TK1739-011","KAS","7440-38-
2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW403-
121217","","","4.0",""
"GI-MW403-121217","6020A","RES","TK1739-011","KAS","7440-43-
9","CADMIUM","0.078","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW403-
121217","","","0.20",""
"GI-MW403-121217","6020A","RES","TK1739-011","KAS","7439-92-
1","LEAD","0.50","ug/L","U","0.075","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW403-
121217","","","0.50",""
"GI-MW403-121217","6020A","RES","TK1739-011","KAS","7439-96-
5","MANGANESE","142","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","GI-MW403-
121217","","","1.0",""
"GI-MW401-121217","6020A","RES","TK1739-012","KAS","7440-38-
2","ARSENIC","4.4","ug/L","J","2.3","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW401-
121217","","","4.0",""
"GI-MW401-121217","6020A","RES","TK1739-012","KAS","7440-43-
9","CADMIUM","0.079","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW401-
121217","","","0.20",""
"GI-MW401-121217","6020A","RES","TK1739-012","KAS","7439-92-
1","LEAD","0.40","ug/L","J","0.075","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW401-
121217","","","0.50",""
"GI-MW401-121217","6020A","RES","TK1739-012","KAS","7439-96-
5","MANGANESE","55.4","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","GI-MW401-
121217","","","1.0",""
"GI-MW401-121217","6020A","RES","TK1739-013","KAS","7440-38-
2","ARSENIC","3.5","ug/L","J","2.3","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW401-
121217","","","4.0",""
"GI-MW401-121217","6020A","RES","TK1739-013","KAS","7440-43-
9","CADMIUM","0.031","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW401-

121217","","","0.20",""
"GI-MW401-121217","6020A","RES","TK1739-013","KAS","7439-92-
1","LEAD","0.50","ug/L","U","0.075","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW401-
121217","","","0.50",""
"GI-MW401-121217","6020A","RES","TK1739-013","KAS","7439-96-
5","MANGANESE","44.3","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","GI-MW401-
121217","","","1.0",""
"TB-121217","8260C","RES","TK1739-1","KAS","17060-07-0","1,2-DICHLOROETHANE-
D4","102.","%","","0","MDL","","SURR","102.","","0","PQL","YES","50.0","TB-121217","","","0",""
"TB-121217","8260C","RES","TK1739-1","KAS","540-59-0","1,2-
DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","TB-
121217","","","2.0",""
"TB-121217","8260C","RES","TK1739-1","KAS","460-00-4","4-
BROMOFLUOROBENZENE","95.6","%","","0","MDL","","SURR","95.6","","0","PQL","YES","50.0","TB-
121217","","","0",""
"TB-121217","8260C","RES","TK1739-1","KAS","71-43-
2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","TB-121217","","","0.50",""
"TB-121217","8260C","RES","TK1739-1","KAS","156-59-2","CIS-1,2-
DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","TB-
121217","","","1.0",""
"TB-121217","8260C","RES","TK1739-1","KAS","1868-53-
7","DIBROMOFLUOROMETHANE","104.","%","","0","MDL","","SURR","104.","","0","PQL","YES","50.0","TB-
121217","","","0",""
"TB-121217","8260C","RES","TK1739-1","KAS","127-18-
4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","TB-
121217","","","0.50",""
"TB-121217","8260C","RES","TK1739-1","KAS","2037-26-5","TOLUENE-
D8","102.","%","","0","MDL","","SURR","102.","","0","PQL","YES","50.0","TB-121217","","","0",""
"TB-121217","8260C","RES","TK1739-1","KAS","156-60-5","TRANS-1,2-
DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","TB-
121217","","","1.0",""
"TB-121217","8260C","RES","TK1739-1","KAS","79-01-
6","TRICHLOROETHENE","0.50","ug/L","U","0.28","MDL","","TRG","","","1.0","PQL","YES","0","TB-
121217","","","0.50",""
"TB-121217","8260C","RES","TK1739-1","KAS","75-01-4","VINYL
CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","TB-121217","","","2.0",""
"GI-MW403-121217","2320B","RES","TK1739-10","KAS","11-43-8","ALKALINITY AS
CACO3","61.","mg/L","","0.23","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW403-121217","","","4.0",""
"GI-MW403-121217","300.0","RES","TK1739-10","KAS","14797-55-8","NITRATE AS
N","3.6","mg/L","",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","GI-MW403-
121217","","","0.025",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-
xylene","68.5","%","","0","MDL","","SURR","68.5","","0","PQL","YES","0.952","GI-MW403-121217","","","0",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","12674-11-2","AROCLOR
1016","0.24","ug/L","U","0.14","MDL","","TRG","","","0.48","PQL","YES","0","GI-MW403-121217","","","0.24",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","11104-28-2","AROCLOR
1221","0.24","ug/L","U","0.2","MDL","","TRG","","","0.48","PQL","YES","0","GI-MW403-121217","","","0.24",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","11141-16-5","AROCLOR
1232","0.24","ug/L","U","0.088","MDL","","TRG","","","0.48","PQL","YES","0","GI-MW403-121217","","","0.24",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","53469-21-9","AROCLOR
1242","0.24","ug/L","U","0.18","MDL","","TRG","","","0.48","PQL","YES","0","GI-MW403-121217","","","0.24",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","12672-29-6","AROCLOR
1248","0.24","ug/L","U","0.2","MDL","","TRG","","","0.48","PQL","YES","0","GI-MW403-121217","","","0.24",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","11097-69-1","AROCLOR

1254","0.24","ug/L","U","0.081","MDL","","TRG","","","0.48","PQL","YES","0","GI-MW403-121217","","","0.24",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","11096-82-5","AROCLOR
1260","0.24","ug/L","U","0.17","MDL","","TRG","","","0.48","PQL","YES","0","GI-MW403-121217","","","0.24",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","37324-23-5","Aroclor-1262
","0.24","ug/L","U","0.066","MDL","","TRG","","","0.48","PQL","YES","0","GI-MW403-121217","","","0.24",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","11100-14-4","Aroclor-1268
","0.24","ug/L","U","0.071","MDL","","TRG","","","0.48","PQL","YES","0","GI-MW403-121217","","","0.24",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","2051-24-
3","DECACHLOROBIPHENYL","50.0","%","","0","MDL","","SURR","50.0","","0","PQL","YES","0.952","GI-
MW403-121217","","","0",""
"GI-MW403-121217","8082A","RES","TK1739-10","KAS","1336-36-3","TOTAL
PCB","2.1","ug/L","U","0.063","MDL","","TRG","","","4.3","PQL","YES","0","GI-MW403-121217","","","2.1",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","17060-07-0","1,2-DICHLOROETHANE-
D4","104.","%","","0","MDL","","SURR","104.","","0","PQL","YES","50.0","GI-MW403-121217","","","0",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","540-59-0","1,2-
DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW403-
121217","","","2.0",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","460-00-4","4-
BROMOFLUOROBENZENE","97.4","%","","0","MDL","","SURR","97.4","","0","PQL","YES","50.0","GI-MW403-
121217","","","0",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","71-43-
2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW403-
121217","","","0.50",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","156-59-2","CIS-1,2-
DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","GI-MW403-
121217","","","1.0",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","1868-53-
7","DIBROMOFLUOROMETHANE","102.","%","","0","MDL","","SURR","102.","","0","PQL","YES","50.0","GI-
MW403-121217","","","0",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","127-18-
4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","GI-
MW403-121217","","","0.50",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","2037-26-5","TOLUENE-
D8","100.","%","","0","MDL","","SURR","100.","","0","PQL","YES","50.0","GI-MW403-121217","","","0",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","156-60-5","TRANS-1,2-
DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","GI-MW403-
121217","","","1.0",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","79-01-
6","TRICHLOROETHENE","0.50","ug/L","U","0.28","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW403-
121217","","","0.50",""
"GI-MW403-121217","8260C","RES","TK1739-10","KAS","75-01-4","VINYL
CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW403-
121217","","","2.0",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","615-58-7","2,4-Dibromophenol
","82.3","%","","0","MDL","","SURR","82.3","","0","PQL","YES","4.00","GI-MW403-121217","","","0",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","91-57-6","2-
METHYLNAPHTHALENE","0.10","ug/L","U","0.077","MDL","","TRG","","","0.20","PQL","YES","0","GI-
MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","7297-45-2","2-Methylnaphthalene-
d10","88.7","%","","0","MDL","","SURR","88.7","","0","PQL","YES","2.00","GI-MW403-121217","","","0",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","56-55-
3","BENZO(A)ANTHRACENE","0.10","ug/L","U","0.046","MDL","","TRG","","","0.20","PQL","YES","0","GI-
MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","50-32-

8","BENZO(A)PYRENE","0.10","ug/L","U","0.066","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","205-99-2","BENZO(B)FLUORANTHENE","0.10","ug/L","U","0.089","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","191-24-2","BENZO(G,H,I)PERYLENE","0.10","ug/L","U","0.065","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","207-08-9","BENZO(K)FLUORANTHENE","0.10","ug/L","U","0.049","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","218-01-9","CHRYSENE","0.10","ug/L","U","0.036","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","53-70-3","DIBENZO(A,H)ANTHRACENE","0.10","ug/L","U","0.070","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","206-44-0","FLUORANTHENE","0.10","ug/L","U","0.073","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","81103-79-9","Fluorene-d10","82.6","%","","0","MDL","","SURR","82.6","","0","PQL","YES","2.00","GI-MW403-121217","","","0",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","193-39-5","INDENO(1,2,3-CD)PYRENE","0.10","ug/L","U","0.052","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","91-20-3","NAPHTHALENE","0.10","ug/L","U","0.064","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","87-86-5","PENTACHLOROPHENOL","0.50","ug/L","U","0.33","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW403-121217","","","0.50",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","85-01-8","PHENANTHRENE","0.10","ug/L","U","0.051","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","129-00-0","PYRENE","0.10","ug/L","U","0.059","MDL","","TRG","","","0.20","PQL","YES","0","GI-MW403-121217","","","0.10",""
"GI-MW403-121217","8270D-SIM","RES","TK1739-10","KAS","1718-52-1","Pyrene-d10","99.0","%","","0","MDL","","SURR","99.0","","0","PQL","YES","2.00","GI-MW403-121217","","","0",""
"GI-MW403-121217","300.0","RES","TK1739-10RA","KAS","16887-00-6","CHLORIDE","15","mg/L","","0.20","MDL","","TRG","","","4.0","PQL","YES","3.75","GI-MW403-121217","","","2.0",""
"GI-MW403-121217","300.0","RES","TK1739-10RAB","KAS","14808-79-8","SULFATE","44","mg/L","","0.32","MDL","","TRG","","","5.0","PQL","YES","3.75","GI-MW403-121217","","","2.5",""
"GI-MW401-121217","2320B","RES","TK1739-12","KAS","11-43-8","ALKALINITY AS CACO3","92.","mg/L","","0.23","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW401-121217","","","4.0",""
"GI-MW401-121217","300.0","RES","TK1739-12","KAS","14797-55-8","NITRATE AS N","0.32","mg/L","",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","GI-MW401-121217","","","0.025",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-xylene","60.6","%","*","0","MDL","","SURR","60.6","","0","PQL","YES","0.943","GI-MW401-121217","","","0",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","12674-11-2","AROCLOR 1016","0.24","ug/L","U","0.15","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW401-121217","","","0.24",""

"GI-MW401-121217","8082A","RES","TK1739-12","KAS","11104-28-2","AROCLOR
1221","0.24","ug/L","U","0.2","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW401-121217","","","0.24",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","11141-16-5","AROCLOR
1232","0.24","ug/L","U","0.089","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW401-121217","","","0.24",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","53469-21-9","AROCLOR
1242","0.24","ug/L","U","0.18","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW401-121217","","","0.24",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","12672-29-6","AROCLOR
1248","0.24","ug/L","U","0.2","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW401-121217","","","0.24",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","11097-69-1","AROCLOR
1254","0.24","ug/L","U","0.082","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW401-121217","","","0.24",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","11096-82-5","AROCLOR
1260","0.24","ug/L","U","0.17","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW401-121217","","","0.24",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","37324-23-5","Aroclor-1262
","0.24","ug/L","U","0.066","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW401-121217","","","0.24",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","11100-14-4","Aroclor-1268
","0.24","ug/L","U","0.072","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW401-121217","","","0.24",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","2051-24-
3","DECACHLOROBIPHENYL","67.4","%","","0","MDL","","SURR","67.4","","0","PQL","YES","0.943","GI-
MW401-121217","","","0",""
"GI-MW401-121217","8082A","RES","TK1739-12","KAS","1336-36-3","TOTAL
PCB","2.1","ug/L","U","0.062","MDL","","TRG","","","4.2","PQL","YES","0","GI-MW401-121217","","","2.1",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","17060-07-0","1,2-DICHLOROETHANE-
D4","103.","%","","0","MDL","","SURR","103.","","0","PQL","YES","50.0","GI-MW401-121217","","","0",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","540-59-0","1,2-
DICHLOROETHYLENE","0.60","ug/L","J","0.21","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW401-
121217","","","2.0",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","460-00-4","4-
BROMOFLUOROBENZENE","98.3","%","","0","MDL","","SURR","98.3","","0","PQL","YES","50.0","GI-MW401-
121217","","","0",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","71-43-
2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW401-
121217","","","0.50",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","156-59-2","CIS-1,2-
DICHLOROETHENE","0.60","ug/L","","0.21","MDL","","TRG","","","0.50","PQL","YES","0","GI-MW401-
121217","","","1.0",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","1868-53-
7","DIBROMOFLUOROMETHANE","101.","%","","0","MDL","","SURR","101.","","0","PQL","YES","50.0","GI-
MW401-121217","","","0",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","127-18-
4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","GI-
MW401-121217","","","0.50",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","2037-26-5","TOLUENE-
D8","101.","%","","0","MDL","","SURR","101.","","0","PQL","YES","50.0","GI-MW401-121217","","","0",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","156-60-5","TRANS-1,2-
DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","GI-MW401-
121217","","","1.0",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","79-01-
6","TRICHLOROETHENE","1.7","ug/L","","0.28","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW401-
121217","","","0.50",""
"GI-MW401-121217","8260C","RES","TK1739-12","KAS","75-01-4","VINYL
CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW401-
121217","","","2.0",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","615-58-7","2,4-Dibromophenol
","82.4","%","","0","MDL","","SURR","82.4","","0","PQL","YES","4.00","GI-MW401-121217","","","0",""

"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","91-57-6","2-METHYLNAPHTHALENE","0.094","ug/L","U","0.073","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","7297-45-2","2-Methylnaphthalene-d10","84.7","%","","0","MDL","","SURR","84.7","","0","PQL","YES","2.00","GI-MW401-121217","","","0",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","56-55-3","BENZO(A)ANTHRACENE","0.094","ug/L","U","0.043","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","50-32-8","BENZO(A)PYRENE","0.094","ug/L","U","0.062","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","205-99-2","BENZO(B)FLUORANTHENE","0.094","ug/L","U","0.084","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","191-24-2","BENZO(G,H,I)PERYLENE","0.094","ug/L","U","0.061","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","207-08-9","BENZO(K)FLUORANTHENE","0.094","ug/L","U","0.046","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","218-01-9","CHRYSENE","0.094","ug/L","U","0.034","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","53-70-3","DIBENZO(A,H)ANTHRACENE","0.094","ug/L","U","0.066","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","206-44-0","FLUORANTHENE","0.094","ug/L","U","0.069","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","81103-79-9","Fluorene-d10","79.4","%","","0","MDL","","SURR","79.4","","0","PQL","YES","2.00","GI-MW401-121217","","","0",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","193-39-5","INDENO(1,2,3-CD)PYRENE","0.094","ug/L","U","0.049","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","91-20-3","NAPHTHALENE","0.094","ug/L","U","0.060","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","87-86-5","PENTACHLOROPHENOL","0.47","ug/L","U","0.31","MDL","","TRG","","","0.94","PQL","YES","0","GI-MW401-121217","","","0.47",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","85-01-8","PHENANTHRENE","0.065","ug/L","J","0.048","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","129-00-0","PYRENE","0.094","ug/L","U","0.056","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW401-121217","","","0.094",""
"GI-MW401-121217","8270D-SIM","RES","TK1739-12","KAS","1718-52-1","Pyrene-d10","75.7","%","","0","MDL","","SURR","75.7","","0","PQL","YES","2.00","GI-MW401-121217","","","0",""
"GI-MW401-121217","300.0","RES","TK1739-12RA","KAS","16887-00-6","CHLORIDE","31","mg/L","","0.50","MDL","","TRG","","","10.","PQL","YES","3.75","GI-MW401-121217","","","5.0",""
"GI-MW401-121217","300.0","RES","TK1739-12RA","KAS","14808-79-8","SULFATE","34","mg/L","","0.32","MDL","","TRG","","","5.0","PQL","YES","3.75","GI-MW401-121217","","","2.5",""

"G32-MW303B-121217","2320B","RES","TK1739-2","KAS","11-43-8","ALKALINITY AS CACO3","4.0","mg/L","U","0.23","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW303B-121217","","","4.0",""
"G32-MW303B-121217","300.0","RES","TK1739-2","KAS","14797-55-8","NITRATE AS N","0.025","mg/L","U",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","G32-MW303B-121217","","","0.025",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-xylene","73.5","%","","0","MDL","","SURR","73.5","","0","PQL","YES","0.952","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","12674-11-2","AROCLOR 1016","0.24","ug/L","U","0.14","MDL","","TRG","","","0.48","PQL","YES","0","G32-MW303B-121217","","","0.24",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","11104-28-2","AROCLOR 1221","0.24","ug/L","U","0.2","MDL","","TRG","","","0.48","PQL","YES","0","G32-MW303B-121217","","","0.24",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","11141-16-5","AROCLOR 1232","0.24","ug/L","U","0.088","MDL","","TRG","","","0.48","PQL","YES","0","G32-MW303B-121217","","","0.24",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","53469-21-9","AROCLOR 1242","0.24","ug/L","U","0.18","MDL","","TRG","","","0.48","PQL","YES","0","G32-MW303B-121217","","","0.24",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","12672-29-6","AROCLOR 1248","0.24","ug/L","U","0.2","MDL","","TRG","","","0.48","PQL","YES","0","G32-MW303B-121217","","","0.24",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","11097-69-1","AROCLOR 1254","0.24","ug/L","U","0.081","MDL","","TRG","","","0.48","PQL","YES","0","G32-MW303B-121217","","","0.24",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","11096-82-5","AROCLOR 1260","0.24","ug/L","U","0.17","MDL","","TRG","","","0.48","PQL","YES","0","G32-MW303B-121217","","","0.24",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","37324-23-5","Aroclor-1262","0.24","ug/L","U","0.066","MDL","","TRG","","","0.48","PQL","YES","0","G32-MW303B-121217","","","0.24",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","11100-14-4","Aroclor-1268","0.24","ug/L","U","0.071","MDL","","TRG","","","0.48","PQL","YES","0","G32-MW303B-121217","","","0.24",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","2051-24-3","DECACHLOROBIPHENYL","37.9","%","*","0","MDL","","SURR","37.9","","0","PQL","YES","0.952","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","8082A","RES","TK1739-2","KAS","1336-36-3","TOTAL PCB","2.1","ug/L","U","0.063","MDL","","TRG","","","4.3","PQL","YES","0","G32-MW303B-121217","","","2.1",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","102.","%","","0","MDL","","SURR","102.","","0","PQL","YES","50.0","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","540-59-0","1,2-DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW303B-121217","","","2.0",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","460-00-4","4-BROMOFLUOROBENZENE","93.2","%","","0","MDL","","SURR","93.2","","0","PQL","YES","50.0","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","71-43-2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW303B-121217","","","0.50",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","G32-MW303B-121217","","","1.0",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","1868-53-

7","DIBROMOFLUOROMETHANE","104.","%","","0","MDL","","SURR","104.","","0","PQL","YES","50.0","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","127-18-4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW303B-121217","","","0.50",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","2037-26-5","TOLUENE-D8","102.","%","","0","MDL","","SURR","102.","","0","PQL","YES","50.0","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","156-60-5","TRANS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","G32-MW303B-121217","","","1.0",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","79-01-6","TRICHLOROETHENE","0.50","ug/L","U","0.28","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW303B-121217","","","0.50",""
"G32-MW303B-121217","8260C","RES","TK1739-2","KAS","75-01-4","VINYL CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW303B-121217","","","2.0",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","615-58-7","2,4-Dibromophenol","64.4","%","","0","MDL","","SURR","64.4","","0","PQL","YES","4.00","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","91-57-6","2-METHYLNAPHTHALENE","0.098","ug/L","U","0.075","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","7297-45-2","2-Methylnaphthalene-d10","70.2","%","","0","MDL","","SURR","70.2","","0","PQL","YES","2.00","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","56-55-3","BENZO(A)ANTHRACENE","0.098","ug/L","U","0.045","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","50-32-8","BENZO(A)PYRENE","0.098","ug/L","U","0.065","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","205-99-2","BENZO(B)FLUORANTHENE","0.098","ug/L","U","0.087","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","191-24-2","BENZO(G,H,I)PERYLENE","0.098","ug/L","U","0.064","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","207-08-9","BENZO(K)FLUORANTHENE","0.098","ug/L","U","0.048","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","218-01-9","CHRYSENE","0.098","ug/L","U","0.035","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","53-70-3","DIBENZO(A,H)ANTHRACENE","0.098","ug/L","U","0.069","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","206-44-0","FLUORANTHENE","0.098","ug/L","U","0.072","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","81103-79-9","Fluorene-d10","67.8","%","","0","MDL","","SURR","67.8","","0","PQL","YES","2.00","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","193-39-5","INDENO(1,2,3-CD)PYRENE","0.098","ug/L","U","0.051","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","91-20-3","NAPHTHALENE","0.098","ug/L","U","0.063","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-

121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","87-86-5","PENTACHLOROPHENOL","0.49","ug/L","U","0.32","MDL","","TRG","","","0.98","PQL","YES","0","G32-MW303B-121217","","","0.49",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","85-01-8","PHENANTHRENE","0.098","ug/L","U","0.050","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","129-00-0","PYRENE","0.098","ug/L","U","0.058","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW303B-121217","","","0.098",""
"G32-MW303B-121217","8270D-SIM","RES","TK1739-2","KAS","1718-52-1","Pyrene-d10","93.8","%","","0","MDL","","SURR","93.8","","0","PQL","YES","2.00","G32-MW303B-121217","","","0",""
"G32-MW303B-121217","300.0","RES","TK1739-2RA","KAS","14808-79-8","SULFATE","26","mg/L","","0.13","MDL","","TRG","","","2.0","PQL","YES","3.75","G32-MW303B-121217","","","1.0",""
"G32-MW303B-121217","300.0","RES","TK1739-2RAB","KAS","16887-00-6","CHLORIDE","120","mg/L","","2.0","MDL","","TRG","","","40.","PQL","YES","3.75","G32-MW303B-121217","","","20.",""
"GI-MW402-121217","2320B","RES","TK1739-4","KAS","11-43-8","ALKALINITY AS CACO3","50.","mg/L","","0.23","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW402-121217","","","4.0",""
"GI-MW402-121217","300.0","RES","TK1739-4","KAS","14797-55-8","NITRATE AS N","0.21","mg/L","",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","GI-MW402-121217","","","0.025",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","102.","%","","0","MDL","","SURR","102.","","0","PQL","YES","50.0","GI-MW402-121217","","","0",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","540-59-0","1,2-DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW402-121217","","","2.0",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","460-00-4","4-BROMOFLUOROBENZENE","93.6","%","","0","MDL","","SURR","93.6","","0","PQL","YES","50.0","GI-MW402-121217","","","0",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","71-43-2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW402-121217","","","0.50",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","GI-MW402-121217","","","1.0",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","1868-53-7","DIBROMOFLUOROMETHANE","109.","%","","0","MDL","","SURR","109.","","0","PQL","YES","50.0","GI-MW402-121217","","","0",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","127-18-4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW402-121217","","","0.50",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","2037-26-5","TOLUENE-D8","101.","%","","0","MDL","","SURR","101.","","0","PQL","YES","50.0","GI-MW402-121217","","","0",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","156-60-5","TRANS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","GI-MW402-121217","","","1.0",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","79-01-6","TRICHLOROETHENE","0.50","ug/L","U","0.28","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW402-121217","","","0.50",""
"GI-MW402-121217","8260C","RES","TK1739-4","KAS","75-01-4","VINYL CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW402-121217","","","2.0",""

"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","615-58-7","2,4-Dibromophenol
","72.5","%","","0","MDL","","SURR","72.5","","0","PQL","YES","4.00","GI-MW402-121217","","","0",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","91-57-6","2-
METHYLNAPHTHALENE","0.094","ug/L","U","0.073","MDL","","TRG","","","0.19","PQL","YES","0","GI-
MW402-121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","7297-45-2","2-Methylnaphthalene-
d10","74.6","%","","0","MDL","","SURR","74.6","","0","PQL","YES","2.00","GI-MW402-121217","","","0",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","56-55-
3","BENZO(A)ANTHRACENE","0.094","ug/L","U","0.043","MDL","","TRG","","","0.19","PQL","YES","0","GI-
MW402-121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","50-32-
8","BENZO(A)PYRENE","0.094","ug/L","U","0.062","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW402-
121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","205-99-
2","BENZO(B)FLUORANTHENE","0.094","ug/L","U","0.084","MDL","","TRG","","","0.19","PQL","YES","0","GI-
MW402-121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","191-24-
2","BENZO(G,H,I)PERYLENE","0.094","ug/L","U","0.061","MDL","","TRG","","","0.19","PQL","YES","0","GI-
MW402-121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","207-08-
9","BENZO(K)FLUORANTHENE","0.094","ug/L","U","0.046","MDL","","TRG","","","0.19","PQL","YES","0","GI-
MW402-121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","218-01-
9","CHRYSENE","0.094","ug/L","U","0.034","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW402-
121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","53-70-
3","DIBENZO(A,H)ANTHRACENE","0.094","ug/L","U","0.066","MDL","","TRG","","","0.19","PQL","YES","0","G
I-MW402-121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","206-44-
0","FLUORANTHENE","0.094","ug/L","U","0.069","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW402-
121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","81103-79-9","Fluorene-
d10","72.8","%","","0","MDL","","SURR","72.8","","0","PQL","YES","2.00","GI-MW402-121217","","","0",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","193-39-5","INDENO(1,2,3-
CD)PYRENE","0.094","ug/L","U","0.049","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW402-
121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","91-20-
3","NAPHTHALENE","0.094","ug/L","U","0.060","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW402-
121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","87-86-
5","PENTACHLOROPHENOL","0.47","ug/L","U","0.31","MDL","","TRG","","","0.94","PQL","YES","0","GI-
MW402-121217","","","0.47",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","85-01-
8","PHENANTHRENE","0.094","ug/L","U","0.048","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW402-
121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","129-00-
0","PYRENE","0.094","ug/L","U","0.056","MDL","","TRG","","","0.19","PQL","YES","0","GI-MW402-
121217","","","0.094",""
"GI-MW402-121217","8270D-SIM","RES","TK1739-4","KAS","1718-52-1","Pyrene-
d10","91.5","%","","0","MDL","","SURR","91.5","","0","PQL","YES","2.00","GI-MW402-121217","","","0",""
"GI-MW402-121217","300.0","RES","TK1739-4RA","KAS","16887-00-
6","CHLORIDE","15","mg/L","","0.20","MDL","","TRG","","","4.0","PQL","YES","3.75","GI-MW402-
121217","","","2.0",""
"GI-MW402-121217","300.0","RES","TK1739-4RAB","KAS","14808-79-

8","SULFATE","59","mg/L","","0.32","MDL","","TRG","","","5.0","PQL","YES","3.75","GI-MW402-121217","","","2.5",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-xylene","85.8","%","","0","MDL","","SURR","85.8","","0","PQL","YES","0.943","GI-MW402-121217","","","0",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","12674-11-2","AROCLOR 1016","0.24","ug/L","U","0.15","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW402-121217","","","0.24",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","11104-28-2","AROCLOR 1221","0.24","ug/L","U","0.2","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW402-121217","","","0.24",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","11141-16-5","AROCLOR 1232","0.24","ug/L","U","0.089","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW402-121217","","","0.24",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","53469-21-9","AROCLOR 1242","0.24","ug/L","U","0.18","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW402-121217","","","0.24",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","12672-29-6","AROCLOR 1248","0.24","ug/L","U","0.2","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW402-121217","","","0.24",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","11097-69-1","AROCLOR 1254","0.24","ug/L","U","0.082","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW402-121217","","","0.24",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","11096-82-5","AROCLOR 1260","0.24","ug/L","U","0.17","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW402-121217","","","0.24",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","37324-23-5","Aroclor-1262 ","0.24","ug/L","U","0.066","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW402-121217","","","0.24",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","11100-14-4","Aroclor-1268 ","0.24","ug/L","U","0.072","MDL","","TRG","","","0.47","PQL","YES","0","GI-MW402-121217","","","0.24",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","2051-24-3","DECACHLOROBIPHENYL","71.0","%","","0","MDL","","SURR","71.0","","0","PQL","YES","0.943","GI-MW402-121217","","","0",""
"GI-MW402-121217","8082A","RES","TK1739-4RE","KAS","1336-36-3","TOTAL PCB","2.1","ug/L","U","0.062","MDL","","TRG","","","4.2","PQL","YES","0","GI-MW402-121217","","","2.1",""
"G32-MW306SR-121217","2320B","RES","TK1739-6","KAS","11-43-8","ALKALINITY AS CACO3","99.","mg/L","","0.23","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW306SR-121217","","","4.0",""
"G32-MW306SR-121217","300.0","RES","TK1739-6","KAS","14797-55-8","NITRATE AS N","0.50","mg/L","",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","G32-MW306SR-121217","","","0.025",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-xylene","70.7","%","","0","MDL","","SURR","70.7","","0","PQL","YES","0.943","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","12674-11-2","AROCLOR 1016","0.24","ug/L","U","0.15","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306SR-121217","","","0.24",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","11104-28-2","AROCLOR 1221","0.24","ug/L","U","0.2","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306SR-121217","","","0.24",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","11141-16-5","AROCLOR 1232","0.24","ug/L","U","0.089","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306SR-121217","","","0.24",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","53469-21-9","AROCLOR 1242","0.24","ug/L","U","0.18","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306SR-121217","","","0.24",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","12672-29-6","AROCLOR 1248","0.24","ug/L","U","0.2","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306SR-121217","","","0.24",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","11097-69-1","AROCLOR 1254","0.24","ug/L","U","0.082","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306SR-121217","","","0.24",""

"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","11096-82-5","AROCLOR 1260","0.24","ug/L","U","0.17","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306SR-121217","","","0.24",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","37324-23-5","Aroclor-1262","0.24","ug/L","U","0.066","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306SR-121217","","","0.24",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","11100-14-4","Aroclor-1268","0.24","ug/L","U","0.072","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306SR-121217","","","0.24",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","2051-24-3","DECACHLOROBIPHENYL","74.9","%","","0","MDL","","SURR","74.9","","0","PQL","YES","0.943","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","8082A","RES","TK1739-6","KAS","1336-36-3","TOTAL PCB","2.1","ug/L","U","0.062","MDL","","TRG","","","4.2","PQL","YES","0","G32-MW306SR-121217","","","2.1",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","106.","%","","0","MDL","","SURR","106.","","0","PQL","YES","50.0","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","540-59-0","1,2-DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306SR-121217","","","2.0",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","460-00-4","4-BROMOFLUOROBENZENE","97.5","%","","0","MDL","","SURR","97.5","","0","PQL","YES","50.0","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","71-43-2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306SR-121217","","","0.50",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","G32-MW306SR-121217","","","1.0",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","1868-53-7","DIBROMOFLUOROMETHANE","101.","%","","0","MDL","","SURR","101.","","0","PQL","YES","50.0","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","127-18-4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306SR-121217","","","0.50",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","2037-26-5","TOLUENE-D8","99.7","%","","0","MDL","","SURR","99.7","","0","PQL","YES","50.0","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","156-60-5","TRANS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","G32-MW306SR-121217","","","1.0",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","79-01-6","TRICHLOROETHENE","0.50","ug/L","U","0.28","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306SR-121217","","","0.50",""
"G32-MW306SR-121217","8260C","RES","TK1739-6","KAS","75-01-4","VINYL CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306SR-121217","","","2.0",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","615-58-7","2,4-Dibromophenol","68.6","%","","0","MDL","","SURR","68.6","","0","PQL","YES","4.00","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","91-57-6","2-METHYLNAPHTHALENE","0.41","ug/L","","0.076","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","7297-45-2","2-Methylnaphthalene-d10","72.8","%","","0","MDL","","SURR","72.8","","0","PQL","YES","2.00","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","56-55-3","BENZO(A)ANTHRACENE","0.099","ug/L","U","0.046","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""

"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","50-32-8","BENZO(A)PYRENE","0.099","ug/L","U","0.065","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","205-99-2","BENZO(B)FLUORANTHENE","0.099","ug/L","U","0.088","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","191-24-2","BENZO(G,H,I)PERYLENE","0.099","ug/L","U","0.064","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","207-08-9","BENZO(K)FLUORANTHENE","0.099","ug/L","U","0.048","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","218-01-9","CHRYSENE","0.099","ug/L","U","0.036","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","53-70-3","DIBENZO(A,H)ANTHRACENE","0.099","ug/L","U","0.069","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","206-44-0","FLUORANTHENE","0.099","ug/L","U","0.072","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","81103-79-9","Fluorene-d10","70.8","%","","0","MDL","","SURR","70.8","","0","PQL","YES","2.00","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","193-39-5","INDENO(1,2,3-CD)PYRENE","0.099","ug/L","U","0.051","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","91-20-3","NAPHTHALENE","0.099","ug/L","U","0.063","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","87-86-5","PENTACHLOROPHENOL","0.50","ug/L","U","0.33","MDL","","TRG","","","0.99","PQL","YES","0","G32-MW306SR-121217","","","0.50",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","85-01-8","PHENANTHRENE","0.28","ug/L","","0.050","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","129-00-0","PYRENE","0.099","ug/L","U","0.058","MDL","","TRG","","","0.20","PQL","YES","0","G32-MW306SR-121217","","","0.099",""
"G32-MW306SR-121217","8270D-SIM","RES","TK1739-6","KAS","1718-52-1","Pyrene-d10","90.6","%","","0","MDL","","SURR","90.6","","0","PQL","YES","2.00","G32-MW306SR-121217","","","0",""
"G32-MW306SR-121217","300.0","RES","TK1739-6RA","KAS","14808-79-8","SULFATE","1600","mg/L","","6.4","MDL","","TRG","","","100","PQL","YES","3.75","G32-MW306SR-121217","","","50.",""
"G32-MW306SR-121217","300.0","RES","TK1739-6RAU","KAS","16887-00-6","CHLORIDE","12000","mg/L","","200","MDL","","TRG","","","4000","PQL","YES","3.75","G32-MW306SR-121217","","","2000",""
"G44S-MW207-121217","2320B","RES","TK1739-8","KAS","11-43-8","ALKALINITY AS CACO3","210","mg/L","","0.23","MDL","","TRG","","","5.0","PQL","YES","0","G44S-MW207-121217","","","4.0",""
"G44S-MW207-121217","300.0","RES","TK1739-8","KAS","14797-55-8","NITRATE AS N","12","mg/L","","0.087","MDL","","TRG","","","0.25","PQL","YES","0.845","G44S-MW207-121217","","","0.12",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-xylene","67.0","%","","0","MDL","","SURR","67.0","","0","PQL","YES","0.962","G44S-MW207-121217","","","0",""

"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","12674-11-2","AROCLOR 1016","0.24","ug/L","U","0.14","MDL","","TRG","","","0.48","PQL","YES","0","G44S-MW207-121217","","","0.24",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","11104-28-2","AROCLOR 1221","0.24","ug/L","U","0.2","MDL","","TRG","","","0.48","PQL","YES","0","G44S-MW207-121217","","","0.24",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","11141-16-5","AROCLOR 1232","0.24","ug/L","U","0.09","MDL","","TRG","","","0.48","PQL","YES","0","G44S-MW207-121217","","","0.24",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","53469-21-9","AROCLOR 1242","0.24","ug/L","U","0.18","MDL","","TRG","","","0.48","PQL","YES","0","G44S-MW207-121217","","","0.24",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","12672-29-6","AROCLOR 1248","0.24","ug/L","U","0.2","MDL","","TRG","","","0.48","PQL","YES","0","G44S-MW207-121217","","","0.24",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","11097-69-1","AROCLOR 1254","0.24","ug/L","U","0.082","MDL","","TRG","","","0.48","PQL","YES","0","G44S-MW207-121217","","","0.24",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","11096-82-5","AROCLOR 1260","0.24","ug/L","U","0.17","MDL","","TRG","","","0.48","PQL","YES","0","G44S-MW207-121217","","","0.24",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","37324-23-5","Aroclor-1262 ","0.24","ug/L","U","0.066","MDL","","TRG","","","0.48","PQL","YES","0","G44S-MW207-121217","","","0.24",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","11100-14-4","Aroclor-1268 ","0.24","ug/L","U","0.072","MDL","","TRG","","","0.48","PQL","YES","0","G44S-MW207-121217","","","0.24",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","2051-24-3","DECACHLOROBIPHENYL","66.3","%","","0","MDL","","SURR","66.3","","0","PQL","YES","0.962","G44S-MW207-121217","","","0",""
"G44S-MW207-121217","8082A","RES","TK1739-8","KAS","1336-36-3","TOTAL PCB","2.2","ug/L","U","0.063","MDL","","TRG","","","4.3","PQL","YES","0","G44S-MW207-121217","","","2.2",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","103.","%","","0","MDL","","SURR","103.","","0","PQL","YES","50.0","G44S-MW207-121217","","","0",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","540-59-0","1,2-DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW207-121217","","","2.0",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","460-00-4","4-BROMOFLUOROBENZENE","98.1","%","","0","MDL","","SURR","98.1","","0","PQL","YES","50.0","G44S-MW207-121217","","","0",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","71-43-2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW207-121217","","","0.50",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","G44S-MW207-121217","","","1.0",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","1868-53-7","DIBROMOFLUOROMETHANE","103.","%","","0","MDL","","SURR","103.","","0","PQL","YES","50.0","G44S-MW207-121217","","","0",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","127-18-4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW207-121217","","","0.50",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","2037-26-5","TOLUENE-D8","100.","%","","0","MDL","","SURR","100.","","0","PQL","YES","50.0","G44S-MW207-121217","","","0",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","156-60-5","TRANS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","G44S-MW207-

121217","","","1.0",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","79-01-6","TRICHLOROETHENE","0.50","ug/L","U","0.28","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW207-121217","","","0.50",""
"G44S-MW207-121217","8260C","RES","TK1739-8","KAS","75-01-4","VINYL CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW207-121217","","","2.0",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","615-58-7","2,4-Dibromophenol","61.8","%","","0","MDL","","SURR","61.8","","0","PQL","YES","4.00","G44S-MW207-121217","","","0",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","91-57-6","2-METHYLNAPHTHALENE","0.096","ug/L","U","0.074","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","7297-45-2","2-Methylnaphthalene-d10","61.5","%","","0","MDL","","SURR","61.5","","0","PQL","YES","2.00","G44S-MW207-121217","","","0",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","56-55-3","BENZO(A)ANTHRACENE","0.086","ug/L","J","0.044","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","50-32-8","BENZO(A)PYRENE","0.092","ug/L","J","0.063","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","205-99-2","BENZO(B)FLUORANTHENE","0.14","ug/L","J","0.086","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","191-24-2","BENZO(G,H,I)PERYLENE","0.096","ug/L","U","0.062","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","207-08-9","BENZO(K)FLUORANTHENE","0.076","ug/L","J","0.047","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","218-01-9","CHRYSENE","0.096","ug/L","U","0.035","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","53-70-3","DIBENZO(A,H)ANTHRACENE","0.096","ug/L","U","0.067","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","206-44-0","FLUORANTHENE","0.17","ug/L","J","0.070","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","81103-79-9","Fluorene-d10","67.2","%","","0","MDL","","SURR","67.2","","0","PQL","YES","2.00","G44S-MW207-121217","","","0",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","193-39-5","INDENO(1,2,3-CD)PYRENE","0.096","ug/L","U","0.050","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","91-20-3","NAPHTHALENE","0.096","ug/L","U","0.062","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","87-86-5","PENTACHLOROPHENOL","0.48","ug/L","U","0.32","MDL","","TRG","","","0.96","PQL","YES","0","G44S-MW207-121217","","","0.48",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","85-01-8","PHENANTHRENE","0.094","ug/L","J","0.049","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","129-00-0","PYRENE","0.17","ug/L","J","0.057","MDL","","TRG","","","0.19","PQL","YES","0","G44S-MW207-

121217","","","0.096",""
"G44S-MW207-121217","8270D-SIM","RES","TK1739-8","KAS","1718-52-1","Pyrene-
d10","91.5","%","","0","MDL","","SURR","91.5","","0","PQL","YES","2.00","G44S-MW207-121217","","","0",""
"G44S-MW207-121217","300.0","RES","TK1739-8RA","KAS","14808-79-
8","SULFATE","200","mg/L","","1.3","MDL","","TRG","","","20.","PQL","YES","3.75","G44S-MW207-
121217","","","10.",""
"G44S-MW207-121217","300.0","RES","TK1739-8RAB","KAS","16887-00-
6","CHLORIDE","1800","mg/L","","20.","MDL","","TRG","","","400","PQL","YES","3.75","G44S-MW207-
121217","","","200",""
"WG220255-1","8082A","RES","WG220255-1","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-
xylene","71.2","%","","0","MDL","","SURR","71.2","","0","PQL","YES","1.00","WG220255-1","","","0",""
"WG220255-1","8082A","RES","WG220255-1","KAS","12674-11-2","AROCLOR
1016","0.25","ug/L","U","0.15","MDL","","TRG","","","0.50","PQL","YES","0","WG220255-1","","","0.25",""
"WG220255-1","8082A","RES","WG220255-1","KAS","11104-28-2","AROCLOR
1221","0.25","ug/L","U","0.20","MDL","","TRG","","","0.50","PQL","YES","0","WG220255-1","","","0.25",""
"WG220255-1","8082A","RES","WG220255-1","KAS","11141-16-5","AROCLOR
1232","0.25","ug/L","U","0.089","MDL","","TRG","","","0.50","PQL","YES","0","WG220255-1","","","0.25",""
"WG220255-1","8082A","RES","WG220255-1","KAS","53469-21-9","AROCLOR
1242","0.25","ug/L","U","0.18","MDL","","TRG","","","0.50","PQL","YES","0","WG220255-1","","","0.25",""
"WG220255-1","8082A","RES","WG220255-1","KAS","12672-29-6","AROCLOR
1248","0.25","ug/L","U","0.20","MDL","","TRG","","","0.50","PQL","YES","0","WG220255-1","","","0.25",""
"WG220255-1","8082A","RES","WG220255-1","KAS","11097-69-1","AROCLOR
1254","0.25","ug/L","U","0.082","MDL","","TRG","","","0.50","PQL","YES","0","WG220255-1","","","0.25",""
"WG220255-1","8082A","RES","WG220255-1","KAS","11096-82-5","AROCLOR
1260","0.25","ug/L","U","0.17","MDL","","TRG","","","0.50","PQL","YES","0","WG220255-1","","","0.25",""
"WG220255-1","8082A","RES","WG220255-1","KAS","37324-23-5","Aroclor-1262
","0.25","ug/L","U","0.066","MDL","","TRG","","","0.50","PQL","YES","0","WG220255-1","","","0.25",""
"WG220255-1","8082A","RES","WG220255-1","KAS","11100-14-4","Aroclor-1268
","0.25","ug/L","U","0.072","MDL","","TRG","","","0.50","PQL","YES","0","WG220255-1","","","0.25",""
"WG220255-1","8082A","RES","WG220255-1","KAS","2051-24-
3","DECACHLOROBIPHENYL","72.5","%","","0","MDL","","SURR","72.5","","0","PQL","YES","1.00","WG22025
5-1","","","0",""
"WG220255-1","8082A","RES","WG220255-1","KAS","1336-36-3","TOTAL
PCB","2.2","ug/L","U","0.066","MDL","","TRG","","","4.5","PQL","YES","0","WG220255-1","","","2.2",""
"WG220255-2","8082A","RES","WG220255-2","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-
xylene","70.2","%","","0","MDL","","SURR","70.2","","0","PQL","YES","1.00","WG220255-2","","","0",""
"WG220255-2","8082A","RES","WG220255-2","KAS","12674-11-2","AROCLOR
1016","3.81","ug/L","","0.15","MDL","","SPK","76.2","","0.50","PQL","YES","5.00","WG220255-2","","","0.25",""
"WG220255-2","8082A","RES","WG220255-2","KAS","11104-28-2","AROCLOR
1221","0.00","ug/L","","0.20","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-2","","","0.25",""
"WG220255-2","8082A","RES","WG220255-2","KAS","11141-16-5","AROCLOR
1232","0.00","ug/L","","0.089","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-2","","","0.25",""
"WG220255-2","8082A","RES","WG220255-2","KAS","53469-21-9","AROCLOR
1242","0.00","ug/L","","0.18","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-2","","","0.25",""
"WG220255-2","8082A","RES","WG220255-2","KAS","12672-29-6","AROCLOR
1248","0.00","ug/L","","0.20","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-2","","","0.25",""
"WG220255-2","8082A","RES","WG220255-2","KAS","11096-82-5","AROCLOR
1260","3.80","ug/L","","0.17","MDL","","SPK","76.0","","0.50","PQL","YES","5.00","WG220255-2","","","0.25",""
"WG220255-2","8082A","RES","WG220255-2","KAS","37324-23-5","Aroclor-1262
","0.00","ug/L","","0.066","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-2","","","0.25",""
"WG220255-2","8082A","RES","WG220255-2","KAS","11100-14-4","Aroclor-1268
","0.00","ug/L","","0.072","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-2","","","0.25",""
"WG220255-2","8082A","RES","WG220255-2","KAS","2051-24-
3","DECACHLOROBIPHENYL","60.2","%","","0","MDL","","SURR","60.2","","0","PQL","YES","1.00","WG22025

5-2","","","0",""
"WG220255-2","8082A","RES","WG220255-2","KAS","1336-36-3","TOTAL
PCB","0.00","ug/L","","0.066","MDL","","SPK","0.00","","4.5","PQL","YES","-1.00","WG220255-2","","","2.2",""
"WG220255-3","8082A","RES","WG220255-3","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-
xylene","63.8","%","","0","MDL","","SURR","63.8","","0","PQL","YES","1.00","WG220255-3","","","0",""
"WG220255-3","8082A","RES","WG220255-3","KAS","11104-28-2","AROCLOR
1221","0.00","ug/L","","0.20","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-3","","","0.25",""
"WG220255-3","8082A","RES","WG220255-3","KAS","11141-16-5","AROCLOR
1232","0.00","ug/L","","0.089","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-3","","","0.25",""
"WG220255-3","8082A","RES","WG220255-3","KAS","53469-21-9","AROCLOR
1242","0.00","ug/L","","0.18","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-3","","","0.25",""
"WG220255-3","8082A","RES","WG220255-3","KAS","12672-29-6","AROCLOR
1248","0.00","ug/L","","0.20","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-3","","","0.25",""
"WG220255-3","8082A","RES","WG220255-3","KAS","11097-69-1","AROCLOR
1254","3.43","ug/L","","0.082","MDL","","SPK","68.6","","0.50","PQL","YES","5.00","WG220255-3","","","0.25",""
"WG220255-3","8082A","RES","WG220255-3","KAS","37324-23-5","Aroclor-1262
","0.00","ug/L","","0.066","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-3","","","0.25",""
"WG220255-3","8082A","RES","WG220255-3","KAS","11100-14-4","Aroclor-1268
","0.00","ug/L","","0.072","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220255-3","","","0.25",""
"WG220255-3","8082A","RES","WG220255-3","KAS","2051-24-
3","DECACHLOROBIPHENYL","73.4","%","","0","MDL","","SURR","73.4","","0","PQL","YES","1.00","WG22025
5-3","","","0",""
"WG220255-3","8082A","RES","WG220255-3","KAS","1336-36-3","TOTAL
PCB","0.00","ug/L","","0.066","MDL","","SPK","0.00","","4.5","PQL","YES","-1.00","WG220255-3","","","2.2",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","615-58-7","2,4-Dibromophenol
","66.6","%","","0","MDL","","SURR","66.6","","0","PQL","YES","4.00","WG220256-1","","","0",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","91-57-6","2-
METHYLNAPHTHALENE","0.10","ug/L","U","0.077","MDL","","TRG","","","0.20","PQL","YES","0","WG220256-
1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","7297-45-2","2-Methylnaphthalene-
d10","73.4","%","","0","MDL","","SURR","73.4","","0","PQL","YES","2.00","WG220256-1","","","0",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","56-55-
3","BENZO(A)ANTHRACENE","0.10","ug/L","U","0.046","MDL","","TRG","","","0.20","PQL","YES","0","WG220
256-1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","50-32-
8","BENZO(A)PYRENE","0.10","ug/L","U","0.066","MDL","","TRG","","","0.20","PQL","YES","0","WG220256-
1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","205-99-
2","BENZO(B)FLUORANTHENE","0.10","ug/L","U","0.089","MDL","","TRG","","","0.20","PQL","YES","0","WG2
20256-1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","191-24-
2","BENZO(G,H,I)PERYLENE","0.10","ug/L","U","0.065","MDL","","TRG","","","0.20","PQL","YES","0","WG220
256-1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","207-08-
9","BENZO(K)FLUORANTHENE","0.10","ug/L","U","0.049","MDL","","TRG","","","0.20","PQL","YES","0","WG2
20256-1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","218-01-
9","CHRYSENE","0.10","ug/L","U","0.036","MDL","","TRG","","","0.20","PQL","YES","0","WG220256-
1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","53-70-
3","DIBENZO(A,H)ANTHRACENE","0.10","ug/L","U","0.070","MDL","","TRG","","","0.20","PQL","YES","0","W
G220256-1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","206-44-
0","FLUORANTHENE","0.10","ug/L","U","0.073","MDL","","TRG","","","0.20","PQL","YES","0","WG220256-

1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","81103-79-9","Fluorene-
d10","67.8","%","","0","MDL","","SURR","67.8","","0","PQL","YES","2.00","WG220256-1","","","0",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","193-39-5","INDENO(1,2,3-
CD)PYRENE","0.10","ug/L","U","0.052","MDL","","TRG","","","0.20","PQL","YES","0","WG220256-
1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","91-20-
3","NAPHTHALENE","0.10","ug/L","U","0.064","MDL","","TRG","","","0.20","PQL","YES","0","WG220256-
1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","87-86-
5","PENTACHLOROPHENOL","0.50","ug/L","U","0.33","MDL","","TRG","","","1.0","PQL","YES","0","WG220256
-1","","","0.50",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","85-01-
8","PHENANTHRENE","0.10","ug/L","U","0.051","MDL","","TRG","","","0.20","PQL","YES","0","WG220256-
1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","129-00-
0","PYRENE","0.10","ug/L","U","0.059","MDL","","TRG","","","0.20","PQL","YES","0","WG220256-
1","","","0.10",""
"WG220256-1","8270D-SIM","RES","WG220256-1","KAS","1718-52-1","Pyrene-
d10","84.1","%","","0","MDL","","SURR","84.1","","0","PQL","YES","2.00","WG220256-1","","","0",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","615-58-7","2,4-Dibromophenol
","62.0","%","","0","MDL","","SURR","62.0","","0","PQL","YES","4.00","WG220256-2","","","0",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","91-57-6","2-
METHYLNAPHTHALENE","1.27","ug/L","","0.077","MDL","","SPK","63.5","","0.20","PQL","YES","2.00","WG22
0256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","7297-45-2","2-Methylnaphthalene-
d10","70.3","%","","0","MDL","","SURR","70.3","","0","PQL","YES","2.00","WG220256-2","","","0",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","56-55-
3","BENZO(A)ANTHRACENE","1.81","ug/L","","0.046","MDL","","SPK","90.5","","0.20","PQL","YES","2.00","W
G220256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","50-32-
8","BENZO(A)PYRENE","1.48","ug/L","","0.066","MDL","","SPK","74.0","","0.20","PQL","YES","2.00","WG22025
6-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","205-99-
2","BENZO(B)FLUORANTHENE","1.61","ug/L","","0.089","MDL","","SPK","80.5","","0.20","PQL","YES","2.00","
WG220256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","191-24-
2","BENZO(G,H,I)PERYLENE","1.53","ug/L","","0.065","MDL","","SPK","76.5","","0.20","PQL","YES","2.00","W
G220256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","207-08-
9","BENZO(K)FLUORANTHENE","1.51","ug/L","","0.049","MDL","","SPK","75.5","","0.20","PQL","YES","2.00","
WG220256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","218-01-
9","CHRYSENE","1.73","ug/L","","0.036","MDL","","SPK","86.5","","0.20","PQL","YES","2.00","WG220256-
2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","53-70-
3","DIBENZO(A,H)ANTHRACENE","1.50","ug/L","","0.070","MDL","","SPK","75.0","","0.20","PQL","YES","2.00
","WG220256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","206-44-
0","FLUORANTHENE","1.53","ug/L","","0.073","MDL","","SPK","76.5","","0.20","PQL","YES","2.00","WG220256
-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","81103-79-9","Fluorene-
d10","62.1","%","","0","MDL","","SURR","62.1","","0","PQL","YES","2.00","WG220256-2","","","0",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","193-39-5","INDENO(1,2,3-

CD)PYRENE","1.84","ug/L","","0.052","MDL","","SPK","92.0","","0.20","PQL","YES","2.00","WG220256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","91-20-3","NAPHTHALENE","1.34","ug/L","","0.064","MDL","","SPK","67.0","","0.20","PQL","YES","2.00","WG220256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","87-86-5","PENTACHLOROPHENOL","1.94","ug/L","","0.33","MDL","","SPK","48.5","","1.0","PQL","YES","4.00","WG220256-2","","","0.50",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","85-01-8","PHENANTHRENE","1.48","ug/L","","0.051","MDL","","SPK","74.0","","0.20","PQL","YES","2.00","WG220256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","129-00-0","PYRENE","1.52","ug/L","","0.059","MDL","","SPK","76.0","","0.20","PQL","YES","2.00","WG220256-2","","","0.10",""
"WG220256-2","8270D-SIM","RES","WG220256-2","KAS","1718-52-1","Pyrene-d10","74.1","%","","0","MDL","","SURR","74.1","","0","PQL","YES","2.00","WG220256-2","","","0",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","615-58-7","2,4-Dibromophenol","66.5","%","","0","MDL","","SURR","66.5","","0","PQL","YES","4.00","WG220256-3","","","0",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","91-57-6","2-METHYLNAPHTHALENE","1.39","ug/L","","0.077","MDL","","SPK","69.5","9","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","7297-45-2","2-Methylnaphthalene-d10","78.7","%","","0","MDL","","SURR","78.7","","0","PQL","YES","2.00","WG220256-3","","","0",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","56-55-3","BENZO(A)ANTHRACENE","1.71","ug/L","","0.046","MDL","","SPK","85.5","6","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","50-32-8","BENZO(A)PYRENE","1.37","ug/L","","0.066","MDL","","SPK","68.5","8","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","205-99-2","BENZO(B)FLUORANTHENE","1.56","ug/L","","0.089","MDL","","SPK","78.0","3","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","191-24-2","BENZO(G,H,I)PERYLENE","1.44","ug/L","","0.065","MDL","","SPK","72.0","6","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","207-08-9","BENZO(K)FLUORANTHENE","1.43","ug/L","","0.049","MDL","","SPK","71.5","5","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","218-01-9","CHRYSENE","1.56","ug/L","","0.036","MDL","","SPK","78.0","10","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","53-70-3","DIBENZO(A,H)ANTHRACENE","1.43","ug/L","","0.070","MDL","","SPK","71.5","5","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","206-44-0","FLUORANTHENE","1.50","ug/L","","0.073","MDL","","SPK","75.0","2","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","81103-79-9","Fluorene-d10","65.9","%","","0","MDL","","SURR","65.9","","0","PQL","YES","2.00","WG220256-3","","","0",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","193-39-5","INDENO(1,2,3-CD)PYRENE","1.52","ug/L","","0.052","MDL","","SPK","76.0","19","0.20","PQL","YES","2.00","WG220256-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","91-20-3","NAPHTHALENE","1.43","ug/L","","0.064","MDL","","SPK","71.5","6","0.20","PQL","YES","2.00","WG220256-

3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","87-86-
5","PENTACHLOROPHENOL","2.33","ug/L","","0.33","MDL","","SPK","58.2","18","1.0","PQL","YES","4.00","W
G220256-3","","","0.50",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","85-01-
8","PHENANTHRENE","1.42","ug/L","","0.051","MDL","","SPK","71.0","4","0.20","PQL","YES","2.00","WG22025
6-3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","129-00-
0","PYRENE","1.56","ug/L","","0.059","MDL","","SPK","78.0","2","0.20","PQL","YES","2.00","WG220256-
3","","","0.10",""
"WG220256-3","8270D-SIM","RES","WG220256-3","KAS","1718-52-1","Pyrene-
d10","76.5","%","","0","MDL","","SURR","76.5","","0","PQL","YES","2.00","WG220256-3","","","0",""
"WG220291-1","300.0","RES","WG220291-1","KAS","16887-00-
6","CHLORIDE","1.0","mg/L","U",".0993","MDL","","TRG","","","2.0","PQL","YES","3.75","WG220291-
1","","","1.0",""
"WG220291-1","300.0","RES","WG220291-1","KAS","14797-55-8","NITRATE AS
N","0.025","mg/L","U",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","WG220291-1","","","0.025",""
"WG220291-1","300.0","RES","WG220291-1","KAS","14797-65-0","NITRITE AS
N","0.025","mg/L","U",".00922","MDL","","TRG","","","0.050","PQL","YES","1.14","WG220291-1","","","0.025",""
"WG220291-1","300.0","RES","WG220291-1","KAS","14808-79-
8","SULFATE","0.50","mg/L","U","0.064","MDL","","TRG","","","1.0","PQL","YES","3.75","WG220291-
1","","","0.50",""
"WG220291-2","300.0","RES","WG220291-2","KAS","16887-00-
6","CHLORIDE","3.74","mg/L","",".0993","MDL","","SPK","99.7","","2.0","PQL","YES","3.75","WG220291-
2","","","1.0",""
"WG220291-2","300.0","RES","WG220291-2","KAS","14797-55-8","NITRATE AS
N","0.841","mg/L","",".0174","MDL","","SPK","99.5","","0.050","PQL","YES","0.845","WG220291-
2","","","0.025",""
"WG220291-2","300.0","RES","WG220291-2","KAS","14797-65-0","NITRITE AS
N","1.20","mg/L","",".00922","MDL","","SPK","105.","","0.050","PQL","YES","1.14","WG220291-
2","","","0.025",""
"WG220291-2","300.0","RES","WG220291-2","KAS","14808-79-
8","SULFATE","3.65","mg/L","","0.064","MDL","","SPK","97.3","","1.0","PQL","YES","3.75","WG220291-
2","","","0.50",""
"WG220302-1","300.0","RES","WG220302-1","KAS","16887-00-
6","CHLORIDE","1.0","mg/L","U",".0993","MDL","","TRG","","","2.0","PQL","YES","3.75","WG220302-
1","","","1.0",""
"WG220302-1","300.0","RES","WG220302-1","KAS","14797-55-8","NITRATE AS
N","0.025","mg/L","U",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","WG220302-1","","","0.025",""
"WG220302-1","300.0","RES","WG220302-1","KAS","14797-65-0","NITRITE AS
N","0.025","mg/L","U",".00922","MDL","","TRG","","","0.050","PQL","YES","1.14","WG220302-1","","","0.025",""
"WG220302-1","300.0","RES","WG220302-1","KAS","14808-79-
8","SULFATE","0.50","mg/L","U","0.064","MDL","","TRG","","","1.0","PQL","YES","3.75","WG220302-
1","","","0.50",""
"WG220302-2","300.0","RES","WG220302-2","KAS","16887-00-
6","CHLORIDE","3.97","mg/L","",".0993","MDL","","SPK","106.","","2.0","PQL","YES","3.75","WG220302-
2","","","1.0",""
"WG220302-2","300.0","RES","WG220302-2","KAS","14797-55-8","NITRATE AS
N","0.810","mg/L","",".0174","MDL","","SPK","95.8","","0.050","PQL","YES","0.845","WG220302-
2","","","0.025",""
"WG220302-2","300.0","RES","WG220302-2","KAS","14797-65-0","NITRITE AS
N","1.19","mg/L","",".00922","MDL","","SPK","104.","","0.050","PQL","YES","1.14","WG220302-
2","","","0.025",""
"WG220302-2","300.0","RES","WG220302-2","KAS","14808-79-

8","SULFATE","3.70","mg/L","","0.064","MDL","","SPK","98.7","","1.0","PQL","YES","3.75","WG220302-2","","","0.50",""
"G32-MW303B-121217MS","300.0","RES","WG220302-3","KAS","16887-00-6","CHLORIDE","200","mg/L","","2.0","MDL","","SPK","107.","","40.","PQL","YES","75","TK1739-2","","","20.",""
"WG220317-8","8260C","RES","WG220317-8","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","102.","%","","0","MDL","","SURR","102.","","0","PQL","YES","50.0","WG220317-8","","","0",""
"WG220317-8","8260C","RES","WG220317-8","KAS","540-59-0","1,2-DICHLOROETHYLENE","102.","ug/L","","0.21","MDL","","SPK","102.","","1.0","PQL","YES","100.","WG220317-8","","","2.0",""
"WG220317-8","8260C","RES","WG220317-8","KAS","460-00-4","4-BROMOFLUOROBENZENE","99.4","%","","0","MDL","","SURR","99.4","","0","PQL","YES","50.0","WG220317-8","","","0",""
"WG220317-8","8260C","RES","WG220317-8","KAS","71-43-2","BENZENE","49.6","ug/L","","0.26","MDL","","SPK","99.2","","1.0","PQL","YES","50.0","WG220317-8","","","0.50",""
"WG220317-8","8260C","RES","WG220317-8","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","51.3","ug/L","","0.21","MDL","","SPK","103.","","0.50","PQL","YES","50.0","WG220317-8","","","1.0",""
"WG220317-8","8260C","RES","WG220317-8","KAS","1868-53-7","DIBROMOFLUOROMETHANE","104.","%","","0","MDL","","SURR","104.","","0","PQL","YES","50.0","WG220317-8","","","0",""
"WG220317-8","8260C","RES","WG220317-8","KAS","127-18-4","TETRACHLOROETHENE","50.6","ug/L","","0.40","MDL","","SPK","101.","","1.0","PQL","YES","50.0","WG220317-8","","","0.50",""
"WG220317-8","8260C","RES","WG220317-8","KAS","2037-26-5","TOLUENE-D8","98.6","%","","0","MDL","","SURR","98.6","","0","PQL","YES","50.0","WG220317-8","","","0",""
"WG220317-8","8260C","RES","WG220317-8","KAS","156-60-5","TRANS-1,2-DICHLOROETHENE","50.3","ug/L","","0.25","MDL","","SPK","101.","","0.50","PQL","YES","50.0","WG220317-8","","","1.0",""
"WG220317-8","8260C","RES","WG220317-8","KAS","79-01-6","TRICHLOROETHENE","47.9","ug/L","","0.28","MDL","","SPK","95.8","","1.0","PQL","YES","50.0","WG220317-8","","","0.50",""
"WG220317-8","8260C","RES","WG220317-8","KAS","75-01-4","VINYL CHLORIDE","53.7","ug/L","","0.25","MDL","","SPK","107.","","1.0","PQL","YES","50.0","WG220317-8","","","2.0",""
"WG220317-9","8260C","RES","WG220317-9","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","104.","%","","0","MDL","","SURR","104.","","0","PQL","YES","50.0","WG220317-9","","","0",""
"WG220317-9","8260C","RES","WG220317-9","KAS","540-59-0","1,2-DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","WG220317-9","","","2.0",""
"WG220317-9","8260C","RES","WG220317-9","KAS","460-00-4","4-BROMOFLUOROBENZENE","98.2","%","","0","MDL","","SURR","98.2","","0","PQL","YES","50.0","WG220317-9","","","0",""
"WG220317-9","8260C","RES","WG220317-9","KAS","71-43-2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","WG220317-9","","","0.50",""
"WG220317-9","8260C","RES","WG220317-9","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","WG220317-9","","","1.0",""
"WG220317-9","8260C","RES","WG220317-9","KAS","1868-53-7","DIBROMOFLUOROMETHANE","105.","%","","0","MDL","","SURR","105.","","0","PQL","YES","50.0","WG220317-9","","","0",""
"WG220317-9","8260C","RES","WG220317-9","KAS","127-18-

4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","WG220317-9","","","0.50",""
"WG220317-9","8260C","RES","WG220317-9","KAS","2037-26-5","TOLUENE-D8","102.","%","","0","MDL","","SURR","102.","","0","PQL","YES","50.0","WG220317-9","","","0",""
"WG220317-9","8260C","RES","WG220317-9","KAS","156-60-5","TRANS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","WG220317-9","","","1.0",""
"WG220317-9","8260C","RES","WG220317-9","KAS","79-01-6","TRICHLOROETHENE","0.50","ug/L","U","0.28","MDL","","TRG","","","1.0","PQL","YES","0","WG220317-9","","","0.50",""
"WG220317-9","8260C","RES","WG220317-9","KAS","75-01-4","VINYL CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","WG220317-9","","","2.0",""
"WG220390-8","8260C","RES","WG220390-8","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","96.1","%","","0","MDL","","SURR","96.1","","0","PQL","YES","50.0","WG220390-8","","","0",""
"WG220390-8","8260C","RES","WG220390-8","KAS","540-59-0","1,2-DICHLOROETHYLENE","98.4","ug/L","","0.21","MDL","","SPK","98.4","","1.0","PQL","YES","100.","WG220390-8","","","2.0",""
"WG220390-8","8260C","RES","WG220390-8","KAS","460-00-4","4-BROMOFLUOROBENZENE","99.7","%","","0","MDL","","SURR","99.7","","0","PQL","YES","50.0","WG220390-8","","","0",""
"WG220390-8","8260C","RES","WG220390-8","KAS","71-43-2","BENZENE","49.0","ug/L","","0.26","MDL","","SPK","98.0","","1.0","PQL","YES","50.0","WG220390-8","","","0.50",""
"WG220390-8","8260C","RES","WG220390-8","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","49.3","ug/L","","0.21","MDL","","SPK","98.6","","0.50","PQL","YES","50.0","WG220390-8","","","1.0",""
"WG220390-8","8260C","RES","WG220390-8","KAS","1868-53-7","DIBROMOFLUOROMETHANE","99.9","%","","0","MDL","","SURR","99.9","","0","PQL","YES","50.0","WG220390-8","","","0",""
"WG220390-8","8260C","RES","WG220390-8","KAS","127-18-4","TETRACHLOROETHENE","50.8","ug/L","","0.40","MDL","","SPK","102.","","1.0","PQL","YES","50.0","WG220390-8","","","0.50",""
"WG220390-8","8260C","RES","WG220390-8","KAS","2037-26-5","TOLUENE-D8","101.","%","","0","MDL","","SURR","101.","","0","PQL","YES","50.0","WG220390-8","","","0",""
"WG220390-8","8260C","RES","WG220390-8","KAS","156-60-5","TRANS-1,2-DICHLOROETHENE","49.1","ug/L","","0.25","MDL","","SPK","98.2","","0.50","PQL","YES","50.0","WG220390-8","","","1.0",""
"WG220390-8","8260C","RES","WG220390-8","KAS","79-01-6","TRICHLOROETHENE","49.8","ug/L","","0.28","MDL","","SPK","99.6","","1.0","PQL","YES","50.0","WG220390-8","","","0.50",""
"WG220390-8","8260C","RES","WG220390-8","KAS","75-01-4","VINYL CHLORIDE","53.0","ug/L","","0.25","MDL","","SPK","106.","","1.0","PQL","YES","50.0","WG220390-8","","","2.0",""
"WG220390-9","8260C","RES","WG220390-9","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","104.","%","","0","MDL","","SURR","104.","","0","PQL","YES","50.0","WG220390-9","","","0",""
"WG220390-9","8260C","RES","WG220390-9","KAS","540-59-0","1,2-DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","WG220390-9","","","2.0",""
"WG220390-9","8260C","RES","WG220390-9","KAS","460-00-4","4-BROMOFLUOROBENZENE","98.3","%","","0","MDL","","SURR","98.3","","0","PQL","YES","50.0","WG220390-9","","","0",""
"WG220390-9","8260C","RES","WG220390-9","KAS","71-43-2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","WG220390-9","","","0.50",""

"WG220390-9","8260C","RES","WG220390-9","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","WG220390-9","","","1.0",""
"WG220390-9","8260C","RES","WG220390-9","KAS","1868-53-7","DIBROMOFLUOROMETHANE","101.","%","","0","MDL","","SURR","101.","","0","PQL","YES","50.0","WG220390-9","","","0",""
"WG220390-9","8260C","RES","WG220390-9","KAS","127-18-4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","WG220390-9","","","0.50",""
"WG220390-9","8260C","RES","WG220390-9","KAS","2037-26-5","TOLUENE-D8","100.","%","","0","MDL","","SURR","100.","","0","PQL","YES","50.0","WG220390-9","","","0",""
"WG220390-9","8260C","RES","WG220390-9","KAS","156-60-5","TRANS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","WG220390-9","","","1.0",""
"WG220390-9","8260C","RES","WG220390-9","KAS","79-01-6","TRICHLOROETHENE","0.50","ug/L","U","0.28","MDL","","TRG","","","1.0","PQL","YES","0","WG220390-9","","","0.50",""
"WG220390-9","8260C","RES","WG220390-9","KAS","75-01-4","VINYL CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","WG220390-9","","","2.0",""
"WG220411-1","8082A","RES","WG220411-1","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-xylene","74.9","%","","0","MDL","","SURR","74.9","","0","PQL","YES","1.00","WG220411-1","","","0",""
"WG220411-1","8082A","RES","WG220411-1","KAS","12674-11-2","AROCLOR 1016","0.25","ug/L","U","0.15","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11104-28-2","AROCLOR 1221","0.25","ug/L","U","0.20","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11141-16-5","AROCLOR 1232","0.25","ug/L","U","0.089","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","53469-21-9","AROCLOR 1242","0.25","ug/L","U","0.18","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","12672-29-6","AROCLOR 1248","0.25","ug/L","U","0.20","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11097-69-1","AROCLOR 1254","0.25","ug/L","U","0.082","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11096-82-5","AROCLOR 1260","0.25","ug/L","U","0.17","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","37324-23-5","Aroclor-1262","0.25","ug/L","U","0.066","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11100-14-4","Aroclor-1268","0.25","ug/L","U","0.072","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","2051-24-3","DECACHLOROBIPHENYL","70.4","%","","0","MDL","","SURR","70.4","","0","PQL","YES","1.00","WG220411-1","","","0",""
"WG220411-1","8082A","RES","WG220411-1","KAS","1336-36-3","TOTAL PCB","2.2","ug/L","U","0.066","MDL","","TRG","","","4.5","PQL","YES","0","WG220411-1","","","2.2",""
"WG220411-2","8082A","RES","WG220411-2","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-xylene","98.7","%","","0","MDL","","SURR","98.7","","0","PQL","YES","1.00","WG220411-2","","","0",""
"WG220411-2","8082A","RES","WG220411-2","KAS","12674-11-2","AROCLOR 1016","4.90","ug/L","","0.15","MDL","","SPK","98.0","","0.50","PQL","YES","5.00","WG220411-2","","","0.25",""
"WG220411-2","8082A","RES","WG220411-2","KAS","11104-28-2","AROCLOR 1221","0.00","ug/L","","0.20","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-2","","","0.25",""
"WG220411-2","8082A","RES","WG220411-2","KAS","11141-16-5","AROCLOR 1232","0.00","ug/L","","0.089","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-2","","","0.25",""
"WG220411-2","8082A","RES","WG220411-2","KAS","53469-21-9","AROCLOR 1242","0.00","ug/L","","0.18","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-2","","","0.25",""

"WG220411-2","8082A","RES","WG220411-2","KAS","12672-29-6","AROCLOR
1248","0.00","ug/L","","0.20","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-2","","","0.25",""
"WG220411-2","8082A","RES","WG220411-2","KAS","11096-82-5","AROCLOR
1260","5.13","ug/L","","0.17","MDL","","SPK","103.","","0.50","PQL","YES","5.00","WG220411-2","","","0.25",""
"WG220411-2","8082A","RES","WG220411-2","KAS","37324-23-5","Aroclor-1262
","0.00","ug/L","","0.066","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-2","","","0.25",""
"WG220411-2","8082A","RES","WG220411-2","KAS","11100-14-4","Aroclor-1268
","0.00","ug/L","","0.072","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-2","","","0.25",""
"WG220411-2","8082A","RES","WG220411-2","KAS","2051-24-
3","DECACHLOROBIPHENYL","83.2","%","","0","MDL","","SURR","83.2","","0","PQL","YES","1.00","WG22041
1-2","","","0",""
"WG220411-2","8082A","RES","WG220411-2","KAS","1336-36-3","TOTAL
PCB","0.00","ug/L","","0.066","MDL","","SPK","0.00","","4.5","PQL","YES","-1.00","WG220411-2","","","2.2",""
"WG220411-3","8082A","RES","WG220411-3","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-
xylene","92.8","%","","0","MDL","","SURR","92.8","","0","PQL","YES","1.00","WG220411-3","","","0",""
"WG220411-3","8082A","RES","WG220411-3","KAS","11104-28-2","AROCLOR
1221","0.00","ug/L","","0.20","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-3","","","0.25",""
"WG220411-3","8082A","RES","WG220411-3","KAS","11141-16-5","AROCLOR
1232","0.00","ug/L","","0.089","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-3","","","0.25",""
"WG220411-3","8082A","RES","WG220411-3","KAS","53469-21-9","AROCLOR
1242","0.00","ug/L","","0.18","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-3","","","0.25",""
"WG220411-3","8082A","RES","WG220411-3","KAS","12672-29-6","AROCLOR
1248","0.00","ug/L","","0.20","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-3","","","0.25",""
"WG220411-3","8082A","RES","WG220411-3","KAS","11097-69-1","AROCLOR
1254","4.34","ug/L","","0.082","MDL","","SPK","86.8","","0.50","PQL","YES","5.00","WG220411-3","","","0.25",""
"WG220411-3","8082A","RES","WG220411-3","KAS","37324-23-5","Aroclor-1262
","0.00","ug/L","","0.066","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-3","","","0.25",""
"WG220411-3","8082A","RES","WG220411-3","KAS","11100-14-4","Aroclor-1268
","0.00","ug/L","","0.072","MDL","","SPK","0.00","","0.50","PQL","YES","-1.00","WG220411-3","","","0.25",""
"WG220411-3","8082A","RES","WG220411-3","KAS","2051-24-
3","DECACHLOROBIPHENYL","86.6","%","","0","MDL","","SURR","86.6","","0","PQL","YES","1.00","WG22041
1-3","","","0",""
"WG220411-3","8082A","RES","WG220411-3","KAS","1336-36-3","TOTAL
PCB","0.00","ug/L","","0.066","MDL","","SPK","0.00","","4.5","PQL","YES","-1.00","WG220411-3","","","2.2",""
"WG220743-1","2320B","RES","WG220743-1","KAS","11-43-8","ALKALINITY AS
CACO3","0.49","mg/L","J","0.23","MDL","","TRG","","","5.0","PQL","YES","0","WG220743-1","","","4.0",""
"WG220743-2","2320B","RES","WG220743-2","KAS","11-43-8","ALKALINITY AS
CACO3","120","mg/L","","0.23","MDL","","SPK","104","","5.0","PQL","YES","120","WG220743-2","","","4.0",""
"WG220781-1","300.0","RES","WG220781-1","KAS","16887-00-
6","CHLORIDE","1.0","mg/L","U",".0993","MDL","","TRG","","","2.0","PQL","YES","3.75","WG220781-
1","","","1.0",""
"WG220781-1","300.0","RES","WG220781-1","KAS","14797-55-8","NITRATE AS
N","0.025","mg/L","U",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","WG220781-1","","","0.025",""
"WG220781-1","300.0","RES","WG220781-1","KAS","14808-79-
8","SULFATE","0.50","mg/L","U","0.064","MDL","","TRG","","","1.0","PQL","YES","3.75","WG220781-
1","","","0.50",""
"WG220781-2","300.0","RES","WG220781-2","KAS","16887-00-
6","CHLORIDE","3.78","mg/L","",".0993","MDL","","SPK","101.","","2.0","PQL","YES","3.75","WG220781-
2","","","1.0",""
"WG220781-2","300.0","RES","WG220781-2","KAS","14797-55-8","NITRATE AS
N","0.853","mg/L","",".0174","MDL","","SPK","101.","","0.050","PQL","YES","0.845","WG220781-
2","","","0.025",""
"WG220781-2","300.0","RES","WG220781-2","KAS","14808-79-
8","SULFATE","3.65","mg/L","","0.064","MDL","","SPK","97.3","","1.0","PQL","YES","3.75","WG220781-

2","","","0.50",""
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ISLAND","PBWKL15IMW1","","AQ","PBWKL15IMW1","MB","","2.2","6020A","3010A","RES","12/15/2017
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TETRA TECH

INTERNAL CORRESPONDENCE

TO: **S. PARKER** **DATE:** **FEBRUARY 14, 2018**

FROM: **TERRI L. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC & INORGANIC DATA VALIDATION – SELECTED VOCs/ PAHs/ PCBs/ PFAS/ SELECT TOTAL AND DISSOLVED METALS/ MISCELLANEOUS**
NAVAL STATION (NAVSTA) NEWPORT, PORTSMOUTH, RHODE ISLAND
WE22 GOULD ISLAND SITE 17
SAMPLE DELIVERY GROUP (SDG) TK1739

SAMPLES: 6/Aqueous/
VOC, PAH, Pesticide, PFAS, Metals, Miscellaneous

G32-MW303B-121217	G32-MW306SR-121217
G44S-MW207-121217	GI-MW401-121217
GI-MW401-121217	GI-MW403-121217

4/Aqueous/
PFAS

G32-MW303B-121217	GI-MW401-121217
GI-MW401-121217	GI-MW403-121217

1/Field Reagent Blank (FRB)
PFAS
FRB121217

1/Trip Blank
VOCs
TB-121217

Overview

The sample set for NAVSTA Newport, SDG TK1739 consisted of six (6) aqueous environmental samples, one (1) trip blank and one (1) FRB sample. Six (6) aqueous environmental samples were analyzed for select volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), select total and dissolved target analyte list (TAL) metals and miscellaneous parameters (alkalinity, chloride, sulfate and nitrate). Four (4) aqueous environmental samples were analyzed for perfluorinated alkyl acids (PFAS). The trip blank was analyzed for VOCs only. The FRB sample was analyzed for PFAS only. No field duplicate sample pairs were included in this SDG.

The samples were collected by Tetra Tech, Inc. on December 12, 2017 and analyzed by Katahdin Analytical Services and Shealy Environmental Services (analyzed PFAS samples). All analyses were conducted in accordance with SW846 methods 8260C, 8270D SIM, 8082A, 6020A, EPA methods 537 version 1.1 Mod., 300.0 and Standard Method 2320B analytical and reporting protocols.

An EPA level 2A validation was performed. The data was evaluated with regard to the following parameters:

- Data Completeness
- Holding Times/Sample Preservation
- * Laboratory Method/Preparation Blank Results
- * ICP Interference Recoveries

- Surrogate Recoveries
- Laboratory Control Sample Results
* • Matrix Spike Results
* • Internal Standard Areas
* • Detection Limits

The asterisk (*) indicates that all quality control criteria were met for this parameter. Qualified (if applicable) analytical results are summarized in Appendix A, results as reported by the laboratory are presented in Appendix B, and documentation supporting these findings is presented in Appendix C. The text of this report has been formulated to address only those areas affecting data quality.

DATA COMPLETENESS

The original data package did not include the compounds 1,2-dichloroethene and vinyl chloride for the VOC analyses as listed in the sampling and analysis plan. The laboratory was contacted and the data package was resubmitted with the correct VOC compound list.

HOLD TIME

The nitrate 48 hour hold time was exceeded by four hours for sample G44S-MW207-121217. The detected result reported in the affected sample was qualified as estimated (J).

The PFAS 14 day extraction hold time was exceeded by three days for the re-extraction of samples GI-MW401-121217, GI-MW402-121217, GI-MW403-121217 and FRB121217 for perfluorooctane sulfonic acid (PFOS) because the laboratory control sample recovery for PFOS was 192% which indicated probable contamination. The LCS recovery in the re-extraction batch 60775 was within acceptance limits. The detected and nondetected results reported for PFOS in the re-extracted samples were qualified as estimated (J) and (UJ), respectively.

SURROGATE RECOVERIES

In the PCB fraction, the percent recoveries (%Rs) for surrogate tetrachloro-m-xylene, column 1 and 2, were below the quality control limit for sample GI-MW-401-121217. The non-detected results reported in the affected sample were qualified as estimated (UJ).

In the PCB fraction, the %Rs for surrogate decacglorobiphenyl, column 1 and 2, were below the quality control limit for sample G32-MW303B-121217. The non-detected results reported in the affected sample were qualified as estimated (UJ).

LABORATORY CONTROL SAMPLE RECOVERIES

In the PFAS fraction, the %R for PFOS was above the quality control limit affecting all samples. Samples GI-MW401-121217, GI-MW402-121217, GI-MW403-121217 and FRB121217 were re-extracted because all of these samples contained a detection of PFOS in the initial extraction. The re-extration were performed three days past hold time. The re-extracted results for PFOS were used for validation and were qualified as a result of hold time.

NOTES

All samples were analyzed at a 5X dilution for the total and dissolved metals analyses. All samples were analyzed at a dilution for the sulfate and chloride analyses. Sample G44S-MW207-121217 was analyzed at a dilution for the nitrate analyses. Detection limits of the non-detected results were elevated.

Detected results reported below the LOQ but above the Method Detection Limit (MDL) were qualified as estimated, (J). Non-detected results are reported to the Limit of Detection (LOD).

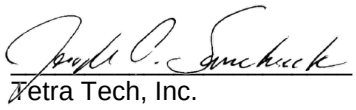
EXECUTIVE SUMMARY

Laboratory Performance: Several hold times were exceeded. Several PCB surrogates were outside the quality control limits.

Other Factors Affecting Data Quality: Results below the LOQ were estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Superfund Methods Data Review" (January 2017), the "National Functional Guidelines for Inorganic Superfund Methods Data Review" (January 2017), the EPA New England Environmental Data Review Supplement (April 2013), and Environmental Protection Agency document EPA/600/R-08/092, Method 537, “Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)”, (September 2009). The text of this report has been formulated to address only those areas affecting data quality.

Tetra Tech, Inc.
Terri L. Solomon
Environmental Chemist



Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:

Appendix A - Qualified Analytical Results
Appendix B - Results as reported by the Laboratory
Appendix C - Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Appendix A

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's r < 0.995
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 08005-WE22	NSAMPLE	G32-MW303B-121217			G32-MW306SR-121217			G44S-MW207-121217			GI-MW401-121217		
SDG: TK1739	LAB_ID	TK1739-2			TK1739-6			TK1739-8			TK1739-12		
FRACTION: OV	SAMP_DATE	12/12/2017			12/12/2017			12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZENE		0.5	U		0.5	U		0.5	U		0.5	U	
CIS-1,2-DICHLOROETHENE		1	U		1	U		1	U		0.6		
TETRACHLOROETHENE		0.5	U		0.5	U		0.5	U		0.5	U	
TOTAL 1,2-DICHLOROETHENE		2	U		2	U		2	U		0.6	J	P
TRANS-1,2-DICHLOROETHENE		1	U		1	U		1	U		1	U	
TRICHLOROETHENE		0.5	U		0.5	U		0.5	U		1.7		
VINYL CHLORIDE		2	U		2	U		2	U		2	U	

PROJ_NO: 08005-WE22	NSAMPLE	GI-MW402-121217			GI-MW403-121217			TB-121217		
SDG: TK1739	LAB_ID	TK1739-4			TK1739-10			TK1739-1		
FRACTION: OV	SAMP_DATE	12/12/2017			12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZENE		0.5	U		0.5	U		0.5	U	
CIS-1,2-DICHLOROETHENE		1	U		1	U		1	U	
TETRACHLOROETHENE		0.5	U		0.5	U		0.5	U	
TOTAL 1,2-DICHLOROETHENE		2	U		2	U		2	U	
TRANS-1,2-DICHLOROETHENE		1	U		1	U		1	U	
TRICHLOROETHENE		0.5	U		0.5	U		0.5	U	
VINYL CHLORIDE		2	U		2	U		2	U	

PROJ_NO: 08005-WE22	NSAMPLE	G32-MW303B-121217			G32-MW306SR-121217			G44S-MW207-121217			GI-MW401-121217		
SDG: TK1739	LAB_ID	TK1739-2			TK1739-6			TK1739-8			TK1739-12		
FRACTION: PAH	SAMP_DATE	12/12/2017			12/12/2017			12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
2-METHYLNAPHTHALENE		0.098	U		0.41			0.096	U		0.094	U	
BENZO(A)ANTHRACENE		0.098	U		0.099	U		0.086	J	P	0.094	U	
BENZO(A)PYRENE		0.098	U		0.099	U		0.092	J	P	0.094	U	
BENZO(B)FLUORANTHENE		0.098	U		0.099	U		0.14	J	P	0.094	U	
BENZO(G,H,I)PERYLENE		0.098	U		0.099	U		0.096	U		0.094	U	
BENZO(K)FLUORANTHENE		0.098	U		0.099	U		0.076	J	P	0.094	U	
CHRYSENE		0.098	U		0.099	U		0.096	U		0.094	U	
DIBENZO(A,H)ANTHRACENE		0.098	U		0.099	U		0.096	U		0.094	U	
FLUORANTHENE		0.098	U		0.099	U		0.17	J	P	0.094	U	
INDENO(1,2,3-CD)PYRENE		0.098	U		0.099	U		0.096	U		0.094	U	
NAPHTHALENE		0.098	U		0.099	U		0.096	U		0.094	U	
PENTACHLOROPHENOL		0.49	U		0.5	U		0.48	U		0.47	U	
PHENANTHRENE		0.098	U		0.28			0.094	J	P	0.065	J	P
PYRENE		0.098	U		0.099	U		0.17	J	P	0.094	U	

PROJ_NO: 08005-WE22	NSAMPLE	GI-MW402-121217			GI-MW403-121217		
SDG: TK1739	LAB_ID	TK1739-4			TK1739-10		
FRACTION: PAH	SAMP_DATE	12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
2-METHYLNAPHTHALENE		0.094	U		0.1	U	
BENZO(A)ANTHRACENE		0.094	U		0.1	U	
BENZO(A)PYRENE		0.094	U		0.1	U	
BENZO(B)FLUORANTHENE		0.094	U		0.1	U	
BENZO(G,H,I)PERYLENE		0.094	U		0.1	U	
BENZO(K)FLUORANTHENE		0.094	U		0.1	U	
CHRYSENE		0.094	U		0.1	U	
DIBENZO(A,H)ANTHRACENE		0.094	U		0.1	U	
FLUORANTHENE		0.094	U		0.1	U	
INDENO(1,2,3-CD)PYRENE		0.094	U		0.1	U	
NAPHTHALENE		0.094	U		0.1	U	
PENTACHLOROPHENOL		0.47	U		0.5	U	
PHENANTHRENE		0.094	U		0.1	U	
PYRENE		0.094	U		0.1	U	

PROJ_NO: 08005-WE22	NSAMPLE	G32-MW303B-121217			G32-MW306SR-121217			G44S-MW207-121217			GI-MW401-121217		
SDG: TK1739	LAB_ID	TK1739-2			TK1739-6			TK1739-8			TK1739-12		
FRACTION: PCB	SAMP_DATE	12/12/2017			12/12/2017			12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		0.24	UJ	R	0.24	U		0.24	U		0.24	UJ	R
AROCLOR-1221		0.24	UJ	R	0.24	U		0.24	U		0.24	UJ	R
AROCLOR-1232		0.24	UJ	R	0.24	U		0.24	U		0.24	UJ	R
AROCLOR-1242		0.24	UJ	R	0.24	U		0.24	U		0.24	UJ	R
AROCLOR-1248		0.24	UJ	R	0.24	U		0.24	U		0.24	UJ	R
AROCLOR-1254		0.24	UJ	R	0.24	U		0.24	U		0.24	UJ	R
AROCLOR-1260		0.24	UJ	R	0.24	U		0.24	U		0.24	UJ	R
AROCLOR-1262		0.24	UJ	R	0.24	U		0.24	U		0.24	UJ	R
AROCLOR-1268		0.24	UJ	R	0.24	U		0.24	U		0.24	UJ	R
TOTAL AROCLOR		2.1	UJ	R	2.1	U		2.2	U		2.1	UJ	R

PROJ_NO: 08005-WE22	NSAMPLE	GI-MW402-121217			GI-MW403-121217		
SDG: TK1739	LAB_ID	TK1739-4RE			TK1739-10		
FRACTION: PCB	SAMP_DATE	12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		0.24	U		0.24	U	
AROCLOR-1221		0.24	U		0.24	U	
AROCLOR-1232		0.24	U		0.24	U	
AROCLOR-1242		0.24	U		0.24	U	
AROCLOR-1248		0.24	U		0.24	U	
AROCLOR-1254		0.24	U		0.24	U	
AROCLOR-1260		0.24	U		0.24	U	
AROCLOR-1262		0.24	U		0.24	U	
AROCLOR-1268		0.24	U		0.24	U	
TOTAL AROCLOR		2.1	U		2.1	U	

PROJ_NO: 08005-WE22	NSAMPLE	G32-MW303B-121217			G32-MW306SR-121217			G44S-MW207-121217			GI-MW401-121217		
SDG: TK1739	LAB_ID	TK1739-002			TK1739-006			TK1739-008			TK1739-012		
FRACTION: M	SAMP_DATE	12/12/2017			12/12/2017			12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ARSENIC		14			3.8	J	P	4.6	J	P	4.4	J	P
CADMIUM		0.24	J	P	0.03	J	P	0.534	J	P	0.079	J	P
LEAD		1.1			0.14	J	P	2.73			0.4	J	P
MANGANESE		1120			1040			264			55.4		

PROJ_NO: 08005-WE22	NSAMPLE	GI-MW402-121217			GI-MW403-121217		
SDG: TK1739	LAB_ID	TK1739-004			TK1739-010		
FRACTION: M	SAMP_DATE	12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
ARSENIC		4	U		4	U	
CADMIUM		0.092	J	P	0.2	U	
LEAD		0.51	J	P	0.17	J	P
MANGANESE		133			146		

PROJ_NO: 08005-WE22	NSAMPLE	G32-MW303B-121217			G32-MW306SR-121217			G44S-MW207-121217			GI-MW401-121217		
SDG: TK1739	LAB_ID	TK1739-003			TK1739-007			TK1739-009			TK1739-013		
FRACTION: MF	SAMP_DATE	12/12/2017			12/12/2017			12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ARSENIC		6.5			5.6			4.3	J	P	3.5	J	P
CADMIUM		0.2	U		0.2	U		0.466	J	P	0.031	J	P
LEAD		0.5	U		0.5	U		1.41			0.5	U	
MANGANESE		1080			1020			202			44.3		

PROJ_NO: 08005-WE22	NSAMPLE	GI-MW402-121217			GI-MW403-121217		
SDG: TK1739	LAB_ID	TK1739-005			TK1739-011		
FRACTION: MF	SAMP_DATE	12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
ARSENIC		4	U		4	U	
CADMIUM		0.072	J	P	0.078	J	P
LEAD		0.16	J	P	0.5	U	
MANGANESE		129			142		

PROJ_NO: 08005-WE22	NSAMPLE	G32-MW303B-121217			G32-MW306SR-121217			G44S-MW207-121217			GI-MW401-121217		
SDG: TK1739	LAB_ID	TK1739-2			TK1739-6			TK1739-8			TK1739-12		
FRACTION: MISC	SAMP_DATE	12/12/2017			12/12/2017			12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALKALINITY		4	U		99			210			92		
CHLORIDE		120			12000			1800			31		
NITRATE-N		0.025	U		0.5			12	J	H	0.32		
SULFATE		26			1600			200			34		

PROJ_NO: 08005-WE22	NSAMPLE	GI-MW402-121217			GI-MW403-121217		
SDG: TK1739	LAB_ID	TK1739-4			TK1739-10		
FRACTION: MISC	SAMP_DATE	12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALKALINITY		50			61		
CHLORIDE		15			15		
NITRATE-N		0.21			3.6		
SULFATE		59			44		

PROJ_NO: 08005-WE22	NSAMPLE	FRB121217			FRB121217-RE			G32-MW303B-121217			GI-MW401-121217		
SDG: TK1739	LAB_ID	SL15079-005			SL15079-005			SL15079-001			SL15079-004		
FRACTION: PFAS	SAMP_DATE	12/12/2017			12/12/2017			12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID		0.83	U					0.86	U		0.84	U	
N-METHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID		0.83	U					0.86	U		0.84	U	
PENTADECAFLUOROOCTANOIC ACID		0.41	U					0.43	U		1.2	J	P
PERFLUOROBUTANESULFONIC ACID		0.41	U					0.43	U		0.43	J	P
PERFLUORODECANOIC ACID		0.41	U					0.43	U		0.54	J	P
PERFLUORODODECANOIC ACID		0.41	U					0.43	U		0.42	U	
PERFLUOROHEPTANOIC ACID		0.41	U					0.43	U		0.84	J	P
PERFLUOROHEXANESULFONIC ACID		0.41	U					0.43	U		0.42	U	
PERFLUOROHEXANOIC ACID		0.41	U					0.44	J	P	1.9		
PERFLUORONONANOIC ACID		0.41	U					0.43	U		0.47	J	P
PERFLUOROOCTANE SULFONIC ACID					0.43	UJ	H	0.43	U				
PERFLUOROTETRADECANOIC ACID		0.83	U					0.86	U		0.84	U	
PERFLUOROTRIDECANOIC ACID		0.41	U					0.43	U		0.42	U	
PERFLUOROUNDECANOIC ACID		0.41	U					0.43	U		0.42	U	

PROJ_NO: 08005-WE22	NSAMPLE	GI-MW401-121217-RE			GI-MW402-121217			GI-MW402-121217-RE			GI-MW403-121217		
SDG: TK1739	LAB_ID	SL15079-004			SL15079-002			SL15079-002			SL15079-003		
FRACTION: PFAS	SAMP_DATE	12/12/2017			12/12/2017			12/12/2017			12/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID					0.91	U					0.84	U	
N-METHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID					0.91	U					0.84	U	
PENTADECAFLUOROOCTANOIC ACID					6.7						4.2		
PERFLUOROBUTANESULFONIC ACID					1.1	J	P				0.7	J	P
PERFLUORODECANOIC ACID					0.45	U					0.42	U	
PERFLUORODODECANOIC ACID					0.45	U					0.42	U	
PERFLUOROHEPTANOIC ACID					1.2	J	P				2.1		
PERFLUOROHEXANESULFONIC ACID					21						1.1	J	P
PERFLUOROHEXANOIC ACID					6.3						3.5		
PERFLUORONONANOIC ACID					0.45	U					0.74	J	P
PERFLUOROOCTANE SULFONIC ACID		1	J	HP				0.49	J	HP			
PERFLUOROTETRADECANOIC ACID					0.91	U					0.84	U	
PERFLUOROTRIDECANOIC ACID					0.45	U					0.42	U	
PERFLUOROUNDECANOIC ACID					0.45	U					0.42	U	

PROJ_NO: 08005-WE22	NSAMPLE	GI-MW403-121217-RE		
SDG: TK1739	LAB_ID	SL15079-003		
FRACTION: PFAS	SAMP_DATE	12/12/2017		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	NG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
N-ETHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID				
N-METHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID				
PENTADECAFLUOROOCTANOIC ACID				
PERFLUOROBUTANESULFONIC ACID				
PERFLUORODECANOIC ACID				
PERFLUORODODECANOIC ACID				
PERFLUOROHEPTANOIC ACID				
PERFLUOROHEXANESULFONIC ACID				
PERFLUOROHEXANOIC ACID				
PERFLUORONONANOIC ACID				
PERFLUOROOCTANE SULFONIC ACID		9.1	J	H
PERFLUOROTETRADECANOIC ACID				
PERFLUOROTRIDECANOIC ACID				
PERFLUOROUNDECANOIC ACID				

Appendix B

Results as Reported by the Laboratory

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-1
Client ID: TB-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: T3682.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 19-DEC-17
Extracted By: JSS/HC
Extraction Method: SW846 5030
Lab Prep Batch: WG220317

Analysis Date: 19-DEC-17
Analyst: JSS/HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		95.6	%					
Toluene-d8		102.	%					
1,2-Dichloroethane-d4		102.	%					
Dibromofluoromethane		104.	%					

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-2
Client ID: G32-MW303B-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: T3685.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 19-DEC-17
Extracted By: JSS/HC
Extraction Method: SW846 5030
Lab Prep Batch: WG220317

Analysis Date: 19-DEC-17
Analyst: JSS/HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		93.2	%					
Toluene-d8		102.	%					
1,2-Dichloroethane-d4		102.	%					
Dibromofluoromethane		104.	%					

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REISSUE

Katahdin Analytical Services A0000006

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-4
Client ID: GI-MW402-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: T3686.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 19-DEC-17
Extracted By: JSS/HC
Extraction Method: SW846 5030
Lab Prep Batch: WG220317

Analysis Date: 19-DEC-17
Analyst: JSS/HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		93.6	%					
Toluene-d8		101.	%					
1,2-Dichloroethane-d4		102.	%					
Dibromofluoromethane		109.	%					

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-6
Client ID: G32-MW306SR-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: T3703.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 20-DEC-17
Extracted By: JSS/HC
Extraction Method: SW846 5030
Lab Prep Batch: WG220390

Analysis Date: 20-DEC-17
Analyst: JSS/HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		97.5	%					
Toluene-d8		99.7	%					
1,2-Dichloroethane-d4		106.	%					
Dibromofluoromethane		101.	%					

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Katahdin Analytical Services A0000008

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-8
Client ID: G44S-MW207-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: T3704.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 20-DEC-17
Extracted By: JSS/HC
Extraction Method: SW846 5030
Lab Prep Batch: WG220390

Analysis Date: 20-DEC-17
Analyst: JSS/HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.1	%					
Toluene-d8		100.	%					
1,2-Dichloroethane-d4		103.	%					
Dibromofluoromethane		103.	%					

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-10
Client ID: GI-MW403-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: T3705.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 20-DEC-17
Extracted By: JSS/HG
Extraction Method: SW846 5030
Lab Prep Batch: WG220390

Analysis Date: 20-DEC-17
Analyst: JSS/HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		97.4	%					
Toluene-d8		100.	%					
1,2-Dichloroethane-d4		104.	%					
Dibromofluoromethane		102.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-12
Client ID: GI-MW401-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: T3706.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 20-DEC-17
Extracted By: JSS/HC
Extraction Method: SW846 5030
Lab Prep Batch: WG220390

Analysis Date: 20-DEC-17
Analyst: JSS/HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene		0.60	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	J	0.60	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene		1.7	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.3	%					
Toluene-d8		101.	%					
1,2-Dichloroethane-d4		103.	%					
Dibromofluoromethane		101.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-2
Client ID: G32-MW303B-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: N7098.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220256

Analysis Date: 21-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.49	ug/L	1	1	0.98	0.32	0.49
Naphthalene	U	0.098	ug/L	1	.2	0.20	0.063	0.098
2-Methylnaphthalene	U	0.098	ug/L	1	.2	0.20	0.075	0.098
Phenanthrene	U	0.098	ug/L	1	.2	0.20	0.050	0.098
Fluoranthene	U	0.098	ug/L	1	.2	0.20	0.072	0.098
Pyrene	U	0.098	ug/L	1	.2	0.20	0.058	0.098
Benzo(a)anthracene	U	0.098	ug/L	1	.2	0.20	0.045	0.098
Chrysene	U	0.098	ug/L	1	.2	0.20	0.035	0.098
Benzo(b)Fluoranthene	U	0.098	ug/L	1	.2	0.20	0.087	0.098
Benzo(k)fluoranthene	U	0.098	ug/L	1	.2	0.20	0.048	0.098
Benzo(a)pyrene	U	0.098	ug/L	1	.2	0.20	0.065	0.098
Indeno(1,2,3-cd)pyrene	U	0.098	ug/L	1	.2	0.20	0.051	0.098
Dibenzo(a,h)anthracene	U	0.098	ug/L	1	.2	0.20	0.069	0.098
Benzo(g,h,i)perylene	U	0.098	ug/L	1	.2	0.20	0.064	0.098
2-Methylnaphthalene-D10		70.2	%					
2,4-Dibromophenol		64.4	%					
Fluorene-D10		67.8	%					
Pyrene-D10		93.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-4
Client ID: GI-MW402-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: N7099.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220256

Analysis Date: 21-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.47	ug/L	1	1	0.94	0.31	0.47
Naphthalene	U	0.094	ug/L	1	.2	0.19	0.060	0.094
2-Methylnaphthalene	U	0.094	ug/L	1	.2	0.19	0.073	0.094
Phenanthrene	U	0.094	ug/L	1	.2	0.19	0.048	0.094
Fluoranthene	U	0.094	ug/L	1	.2	0.19	0.069	0.094
Pyrene	U	0.094	ug/L	1	.2	0.19	0.056	0.094
Benzo(a)anthracene	U	0.094	ug/L	1	.2	0.19	0.043	0.094
Chrysene	U	0.094	ug/L	1	.2	0.19	0.034	0.094
Benzo(b)Fluoranthene	U	0.094	ug/L	1	.2	0.19	0.084	0.094
Benzo(k)fluoranthene	U	0.094	ug/L	1	.2	0.19	0.046	0.094
Benzo(a)pyrene	U	0.094	ug/L	1	.2	0.19	0.062	0.094
Indeno(1,2,3-cd)pyrene	U	0.094	ug/L	1	.2	0.19	0.049	0.094
Dibenzo(a,h)anthracene	U	0.094	ug/L	1	.2	0.19	0.066	0.094
Benzo(g,h,i)perylene	U	0.094	ug/L	1	.2	0.19	0.061	0.094
2-Methylnaphthalene-D10		74.6	%					
2,4-Dibromophenol		72.5	%					
Fluorene-D10		72.8	%					
Pyrene-D10		91.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-6
Client ID: G32-MW306SR-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: N7100.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220256

Analysis Date: 21-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.50	ug/L	1	1	0.99	0.33	0.50
Naphthalene	U	0.099	ug/L	1	.2	0.20	0.063	0.099
2-Methylnaphthalene		0.41	ug/L	1	.2	0.20	0.076	0.099
Phenanthrene		0.28	ug/L	1	.2	0.20	0.050	0.099
Fluoranthene	U	0.099	ug/L	1	.2	0.20	0.072	0.099
Pyrene	U	0.099	ug/L	1	.2	0.20	0.058	0.099
Benzo(a)anthracene	U	0.099	ug/L	1	.2	0.20	0.046	0.099
Chrysene	U	0.099	ug/L	1	.2	0.20	0.036	0.099
Benzo(b)Fluoranthene	U	0.099	ug/L	1	.2	0.20	0.088	0.099
Benzo(k)fluoranthene	U	0.099	ug/L	1	.2	0.20	0.048	0.099
Benzo(a)pyrene	U	0.099	ug/L	1	.2	0.20	0.065	0.099
Indeno(1,2,3-cd)pyrene	U	0.099	ug/L	1	.2	0.20	0.051	0.099
Dibenzo(a,h)anthracene	U	0.099	ug/L	1	.2	0.20	0.069	0.099
Benzo(g,h,i)perylene	U	0.099	ug/L	1	.2	0.20	0.064	0.099
2-Methylnaphthalene-D10		72.8	%					
2,4-Dibromophenol		68.6	%					
Fluorene-D10		70.8	%					
Pyrene-D10		90.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-8
Client ID: G44S-MW207-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: N7101.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220256

Analysis Date: 21-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.48	ug/L	1	1	0.96	0.32	0.48
Naphthalene	U	0.096	ug/L	1	.2	0.19	0.062	0.096
2-Methylnaphthalene	U	0.096	ug/L	1	.2	0.19	0.074	0.096
Phenanthrene	J	0.094	ug/L	1	.2	0.19	0.049	0.096
Fluoranthene	J	0.17	ug/L	1	.2	0.19	0.070	0.096
Pyrene	J	0.17	ug/L	1	.2	0.19	0.057	0.096
Benzo(a)anthracene	J	0.086	ug/L	1	.2	0.19	0.044	0.096
Chrysene	U	0.096	ug/L	1	.2	0.19	0.035	0.096
Benzo(b)Fluoranthene	J	0.14	ug/L	1	.2	0.19	0.086	0.096
Benzo(k)fluoranthene	J	0.076	ug/L	1	.2	0.19	0.047	0.096
Benzo(a)pyrene	J	0.092	ug/L	1	.2	0.19	0.063	0.096
Indeno(1,2,3-cd)pyrene	U	0.096	ug/L	1	.2	0.19	0.050	0.096
Dibenzo(a,h)anthracene	U	0.096	ug/L	1	.2	0.19	0.067	0.096
Benzo(g,h,i)perylene	U	0.096	ug/L	1	.2	0.19	0.062	0.096
2-Methylnaphthalene-D10		61.5	%					
2,4-Dibromophenol		61.8	%					
Fluorene-D10		67.2	%					
Pyrene-D10		91.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-10
Client ID: GI-MW403-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: N7102.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220256

Analysis Date: 21-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.50	ug/L	1	1	1.0	0.33	0.50
Naphthalene	U	0.10	ug/L	1	.2	0.20	0.064	0.10
2-Methylnaphthalene	U	0.10	ug/L	1	.2	0.20	0.077	0.10
Phenanthrene	U	0.10	ug/L	1	.2	0.20	0.051	0.10
Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.073	0.10
Pyrene	U	0.10	ug/L	1	.2	0.20	0.059	0.10
Benzo(a)anthracene	U	0.10	ug/L	1	.2	0.20	0.046	0.10
Chrysene	U	0.10	ug/L	1	.2	0.20	0.036	0.10
Benzo(b)Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.089	0.10
Benzo(k)fluoranthene	U	0.10	ug/L	1	.2	0.20	0.049	0.10
Benzo(a)pyrene	U	0.10	ug/L	1	.2	0.20	0.066	0.10
Indeno(1,2,3-cd)pyrene	U	0.10	ug/L	1	.2	0.20	0.052	0.10
Dibenzo(a,h)anthracene	U	0.10	ug/L	1	.2	0.20	0.070	0.10
Benzo(g,h,i)perylene	U	0.10	ug/L	1	.2	0.20	0.065	0.10
2-Methylnaphthalene-D10		88.7	%					
2,4-Dibromophenol		82.3	%					
Fluorene-D10		82.6	%					
Pyrene-D10		99.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-12
Client ID: GI-MW401-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: N7103.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220256

Analysis Date: 21-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.47	ug/L	1	1	0.94	0.31	0.47
Naphthalene	U	0.094	ug/L	1	.2	0.19	0.060	0.094
2-Methylnaphthalene	U	0.094	ug/L	1	.2	0.19	0.073	0.094
Phenanthrene	J	0.065	ug/L	1	.2	0.19	0.048	0.094
Fluoranthene	U	0.094	ug/L	1	.2	0.19	0.069	0.094
Pyrene	U	0.094	ug/L	1	.2	0.19	0.056	0.094
Benzo(a)anthracene	U	0.094	ug/L	1	.2	0.19	0.043	0.094
Chrysene	U	0.094	ug/L	1	.2	0.19	0.034	0.094
Benzo(b)Fluoranthene	U	0.094	ug/L	1	.2	0.19	0.084	0.094
Benzo(k)fluoranthene	U	0.094	ug/L	1	.2	0.19	0.046	0.094
Benzo(a)pyrene	U	0.094	ug/L	1	.2	0.19	0.062	0.094
Indeno(1,2,3-cd)pyrene	U	0.094	ug/L	1	.2	0.19	0.049	0.094
Dibenzo(a,h)anthracene	U	0.094	ug/L	1	.2	0.19	0.066	0.094
Benzo(g,h,i)perylene	U	0.094	ug/L	1	.2	0.19	0.061	0.094
2-Methylnaphthalene-D10		84.7	%					
2,4-Dibromophenol		82.4	%					
Fluorene-D10		79.4	%					
Pyrene-D10		75.7	%					

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-2
Client ID: G32-MW303B-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: 7KL608.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220255

Analysis Date: 19-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.48	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.48	0.085	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.48	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.48	0.078	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.48	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.48	0.063	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.48	0.068	0.24
Total PCBs	U	2.1	ug/L	1	4.5	4.3	0.063	2.1
Tetrachloro-M-Xylene		73.5	%					
Decachlorobiphenyl	*	37.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-4RE
Client ID: GI-MW402-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: 8KL00539.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 20-DEC-17
Extracted By: KF
Extraction Method: SW846 3510C
Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.47	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.47	0.084	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.47	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.47	0.077	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.47	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.47	0.062	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.47	0.068	0.24
Total PCBs	U	2.1	ug/L	1	4.5	4.2	0.062	2.1
Tetrachloro-M-Xylene		85.8	%					
Decachlorobiphenyl		71.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-6
Client ID: G32-MW306SR-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: 7KL612.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220255

Analysis Date: 19-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.47	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.47	0.084	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.47	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.47	0.077	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.47	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.47	0.062	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.47	0.068	0.24
Total PCBs	U	2.1	ug/L	1	4.5	4.2	0.062	2.1
Tetrachloro-M-Xylene		70.7	%					
Decachlorobiphenyl		74.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-8
Client ID: G44S-MW207-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: 7KL613.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220255

Analysis Date: 19-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.48	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.48	0.086	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.48	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.48	0.079	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.48	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.48	0.063	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.48	0.069	0.24
Total PCBs	U	2.2	ug/L	1	4.5	4.3	0.063	2.2
Tetrachloro-M-Xylene		67.0	%					
Decachlorobiphenyl		66.3	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-10
Client ID: GI-MW403-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: 7KL614.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220255

Analysis Date: 19-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.48	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.48	0.085	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.48	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.48	0.078	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.48	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.48	0.063	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.48	0.068	0.24
Total PCBs	U	2.1	ug/L	1	4.5	4.3	0.063	2.1
Tetrachloro-M-Xylene		68.5	%					
Decachlorobiphenyl		50.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1739-12
Client ID: GI-MW401-121217
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1739
Lab File ID: 7KL615.D

Sample Date: 12-DEC-17
Received Date: 13-DEC-17
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220255

Analysis Date: 19-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.47	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.47	0.084	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.47	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.47	0.077	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.47	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.47	0.062	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.47	0.068	0.24
Total PCBs	U	2.1	ug/L	1	4.5	4.2	0.062	2.1
Tetrachloro-M-Xylene	*	60.6	%					
Decachlorobiphenyl		67.4	%					

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G32-MW303B-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-38-2	ARSENIC, TOTAL	14			MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.24	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	1.10			MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	1120			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G32-MW303B-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-38-2	ARSENIC, DISSOLVED	6.5			MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.50	U		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	1080			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** GI-MW402-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-38-2	ARSENIC, TOTAL	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.092	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	0.51	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	133			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** GI-MW402-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-38-2	ARSENIC, DISSOLVED	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.072	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.16	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	129			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G32-MW306SR-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-38-2	ARSENIC, TOTAL	3.8	J		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.030	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	0.14	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	1040			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G32-MW306SR-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-38-2	ARSENIC, DISSOLVED	5.6			MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.50	U		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	1020			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G44S-MW207-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-008

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-38-2	ARSENIC, TOTAL	4.6	J		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.534	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	2.73			MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	264			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G44S-MW207-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-009

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-38-2	ARSENIC, DISSOLVED	4.3	J		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.466	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	1.41			MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	202			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** GI-MW403-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-010

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-38-2	ARSENIC, TOTAL	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	0.17	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	146			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** GI-MW403-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-011

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-38-2	ARSENIC, DISSOLVED	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.078	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.50	U		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	142			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** GI-MW401-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-012

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-38-2	ARSENIC, TOTAL	4.4	J		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.079	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	0.40	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	55.4			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** GI-MW401-121217

Matrix: WATER **SDG Name:** TK1739

Percent Solids: 0.00 **Lab Sample ID:** TK1739-013

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-38-2	ARSENIC, DISSOLVED	3.5	J		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.031	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.50	U		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	44.3			MS	5	2.0	0.35	1.0

Comments:

Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem,NH 03079

Lab Sample ID: TK1739-2
Report Date: 04-JAN-18
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1739

Sample Description	Matrix	Date Sampled	Date Received
G32-MW303B-121217	AQ	12-DEC-17 13:30:00	13-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	U4.0 mg/L	5.0	0.23	4.0	STDM 2320B	WG220743	22-DEC-17 17:07:56	N/A	N/A	
Chloride	120 mg/L	40.	2.0	20.	EPA 300.0	WG220302	15-DEC-17 02:29:00	E300.0	N/A	
Nitrate as N	U0.025 mg/L	0.050	.0174	0.025	EPA 300.0	WG220291	14-DEC-17 12:45:00	E300.0	N/A	
Sulfate	26 mg/L	2.0	0.13	1.0	EPA 300.0	WG220302	15-DEC-17 02:13:00	E300.0	N/A	

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem,NH 03079

Lab Sample ID: TK1739-4
Report Date: 04-JAN-18
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1739

Sample Description	Matrix	Date Sampled	Date Received
GI-MW402-121217	AQ	12-DEC-17 10:30:00	13-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	50. mg/L	5.0	0.23	4.0	STDM 2320B	WG220743	22-DEC-17 17:09:25	N/A	N/A	
Chloride	15 mg/L	4.0	0.20	2.0	EPA 300.0	WG220302	15-DEC-17 03:00:00	E300.0	N/A	
Nitrate as N	0.21 mg/L	0.050	.0174	0.025	EPA 300.0	WG220291	14-DEC-17 10:39:00	E300.0	N/A	
Sulfate	59 mg/L	5.0	0.32	2.5	EPA 300.0	WG220302	15-DEC-17 03:16:00	E300.0	N/A	

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Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem,NH 03079

Lab Sample ID: TK1739-6
Report Date: 04-JAN-18
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1739

Sample Description	Matrix	Date Sampled	Date Received
G32-MW306SR-121217	AQ	12-DEC-17 10:10:00	13-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	99. mg/L	5.0	0.23	4.0	STDM 2320B	WG220743	22-DEC-17 17:11:49	N/A	N/A	
Chloride	12000 mg/L	4000	200	2000	EPA 300.0	WG220302	15-DEC-17 04:19:00	E300.0	N/A	
Nitrate as N	0.50 mg/L	0.050	.0174	0.025	EPA 300.0	WG220291	14-DEC-17 09:52:00	E300.0	N/A	
Sulfate	1600 mg/L	100	6.4	50.	EPA 300.0	WG220781	19-DEC-17 04:20:00	E300.0	N/A	

Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem,NH 03079

Lab Sample ID: TK1739-8
Report Date: 04-JAN-18
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1739

Sample Description	Matrix	Date Sampled	Date Received
G44S-MW207-121217	AQ	12-DEC-17 07:55:00	13-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	210 mg/L	5.0	0.23	4.0	STDM 2320B	WG220743	22-DEC-17 17:14:37	N/A	N/A	
Chloride	1800 mg/L	400	20.	200	EPA 300.0	WG220302	15-DEC-17 04:50:00	E300.0	N/A	
Nitrate as N	12 mg/L	0.25	0.087	0.12	EPA 300.0	WG220291	14-DEC-17 12:13:00	E300.0	N/A	
Sulfate	200 mg/L	20.	1.3	10.	EPA 300.0	WG220302	15-DEC-17 04:34:00	E300.0	N/A	

Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem,NH 03079

Lab Sample ID: TK1739-10
Report Date: 04-JAN-18
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1739

Sample Description	Matrix	Date Sampled	Date Received
GI-MW403-121217	AQ	12-DEC-17 10:21:00	13-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	61. mg/L	5.0	0.23	4.0	STDM 2320B	WG220743	22-DEC-17 17:24:12	N/A	N/A	
Chloride	15 mg/L	4.0	0.20	2.0	EPA 300.0	WG220302	15-DEC-17 05:06:00	E300.0	N/A	
Nitrate as N	3.6 mg/L	0.050	.0174	0.025	EPA 300.0	WG220291	14-DEC-17 10:23:00	E300.0	N/A	
Sulfate	44 mg/L	5.0	0.32	2.5	EPA 300.0	WG220302	15-DEC-17 05:22:00	E300.0	N/A	

Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem,NH 03079

Lab Sample ID: TK1739-12
Report Date: 04-JAN-18
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1739

Sample Description	Matrix	Date Sampled	Date Received
GI-MW401-121217	AQ	12-DEC-17 13:53:00	13-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	92. mg/L	5.0	0.23	4.0	STDM 2320B	WG220743	22-DEC-17 17:26:42	N/A	N/A	
Chloride	31 mg/L	10.	0.50	5.0	EPA 300.0	WG220302	15-DEC-17 05:37:00	E300.0	N/A	
Nitrate as N	0.32 mg/L	0.050	.0174	0.025	EPA 300.0	WG220291	14-DEC-17 13:00:00	E300.0	N/A	
Sulfate	34 mg/L	5.0	0.32	2.5	EPA 300.0	WG220302	15-DEC-17 05:37:00	E300.0	N/A	

PFAS by LC/MS/MS

Client: **Katahdin Analytical Services** Laboratory ID: **SL15079-001**

Description: **G32-MW303B-121217** Matrix: **Aqueous**

Date Sampled: **12/12/2017 1330**

Date Received: **12/15/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/22/2017 1613	SES	12/22/2017 0923	60410

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.7	U	3.4	1.7	0.86	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.7	U	3.4	1.7	0.86	ng/L	1
Perfluoro-1-butanesulfonate (PFBS)	375-73-5	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**537.1 Mod. ID**	**0.44**	**J**	**1.7**	0.85	**0.43**	**ng/L**	**1**
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.7	U	3.4	1.7	0.86	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluorooctanesulfonate (PFOS)	1763-23-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_PFDoA		105	50-150
13C2_PFTeDA		81	50-150
13C3_PFBS		109	50-150
13C3_PFHxS		111	50-150
13C4_PFHpA		115	50-150
13C5_PFHxA		111	50-150
13C6_PFDA		112	50-150
13C7_PFUdA		112	50-150
13C8_PFOA		116	50-150
13C8_PFOS		105	50-150
13C9_PFNA		111	50-150
d5-EtFOSAA		106	50-150
d3-MeFOSAA		107	50-150

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
LOD = Limit of Detection
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services** Laboratory ID: **SL15079-002**

Description: **GI-MW402-121217** Matrix: **Aqueous**

Date Sampled: **12/12/2017 1030**

Date Received: **12/15/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/22/2017 1627	SES	12/22/2017 0923	60410
2	537 MOD	537.1 Modified-ID	1	12/29/2017 2019	SES	12/29/2017 1029	60775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.8	U	3.6	1.8	0.91	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.8	U	3.6	1.8	0.91	ng/L	1
Perfluoro-1-butanesulfonate (PFBS)	**375-73-5**	**537.1 Mod. ID**	**1.1**	**J**	**1.8**	0.90	**0.45**	**ng/L**	**1**
Perfluorohexanesulfonate (PFHxS)	**355-46-4**	**537.1 Mod. ID**	**21**		**1.8**	0.90	**0.45**	**ng/L**	**1**
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.90	U	1.8	0.90	0.45	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.90	U	1.8	0.90	0.45	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	**375-85-9**	**537.1 Mod. ID**	**1.2**	**J**	**1.8**	0.90	**0.45**	**ng/L**	**1**
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**537.1 Mod. ID**	**6.3**		**1.8**	0.90	**0.45**	**ng/L**	**1**
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.90	U	1.8	0.90	0.45	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**537.1 Mod. ID**	**6.7**		**1.8**	0.90	**0.45**	**ng/L**	**1**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.8	U	3.6	1.8	0.91	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.90	U	1.8	0.90	0.45	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.90	U	1.8	0.90	0.45	ng/L	1
Perfluorooctanesulfonate (PFOS)	**1763-23-1**	**537.1 Mod. ID**	**100**		**1.8**	0.90	**0.45**	**ng/L**	**1**

Surrogate	Run 1 Q	Run 1 % Recovery	Run 1 Acceptance Limits	Run 2 Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_PFDoA		106	50-150	H	102	50-150
13C2_PFTeDA		106	50-150	H	105	50-150
13C3_PFBS		110	50-150	H	102	50-150
13C3_PFHxS		109	50-150	H	106	50-150
13C4_PFHpA		122	50-150	H	102	50-150
13C5_PFHxA		117	50-150	H	108	50-150
13C6_PFDA		110	50-150	H	105	50-150
13C7_PFUdA		112	50-150	H	106	50-150
13C8_PFOA		115	50-150	H	104	50-150
13C8_PFOS		108	50-150	H	98	50-150
13C9_PFNA		111	50-150	H	106	50-150
d5-EtFOSAA		111	50-150	H	109	50-150
d3-MeFOSAA		109	50-150	H	115	50-150

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
LOD = Limit of Detection
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services** Laboratory ID: **SL15079-002**

Description: **GI-MW402-121217** Matrix: **Aqueous**

Date Sampled: **12/12/2017 1030**

Date Received: **12/15/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/22/2017 1627	SES	12/22/2017 0923	60410
2	537 MOD	537.1 Modified-ID	1	12/29/2017 2019	SES	12/29/2017 1029	60775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.9	UH	3.7	1.9	0.92	ng/L	2
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.9	UH	3.7	1.9	0.92	ng/L	2
Perfluoro-1-butanesulfonate (PFBS)	375-73-5	537.1 Mod. ID	0.90	UH	1.8	0.90	0.46	ng/L	2
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	0.90	UH	1.8	0.90	0.46	ng/L	2
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.90	UH	1.8	0.90	0.46	ng/L	2
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.90	UH	1.8	0.90	0.46	ng/L	2
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	0.90	UH	1.8	0.90	0.46	ng/L	2
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**537.1 Mod. ID**	**0.98**	**HJ**	**1.8**	0.90	**0.46**	**ng/L**	**2**
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.90	UH	1.8	0.90	0.46	ng/L	2
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**537.1 Mod. ID**	**0.74**	**HJ**	**1.8**	0.90	**0.46**	**ng/L**	**2**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.9	UH	3.7	1.9	0.92	ng/L	2
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.90	UH	1.8	0.90	0.46	ng/L	2
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.90	UH	1.8	0.90	0.46	ng/L	2
Perfluorooctanesulfonate (PFOS)	**1763-23-1**	**537.1 Mod. ID**	**0.49**	**HJ**	**1.8**	0.90	**0.46**	**ng/L**	**2**

Surrogate	Run 1 Q	Run 1 % Recovery	Run 1 Acceptance Limits	Run 2 Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_PFDoA		106	50-150	H	102	50-150
13C2_PFTeDA		106	50-150	H	105	50-150
13C3_PFBS		110	50-150	H	102	50-150
13C3_PFHxS		109	50-150	H	106	50-150
13C4_PFHpA		122	50-150	H	102	50-150
13C5_PFHxA		117	50-150	H	108	50-150
13C6_PFDA		110	50-150	H	105	50-150
13C7_PFUdA		112	50-150	H	106	50-150
13C8_PFOA		115	50-150	H	104	50-150
13C8_PFOS		108	50-150	H	98	50-150
13C9_PFNA		111	50-150	H	106	50-150
d5-EtFOSAA		111	50-150	H	109	50-150
d3-MeFOSAA		109	50-150	H	115	50-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
U = Not detected at or above the LOQ
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
LOD = Limit of Detection
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services** Laboratory ID: **SL15079-003**

Description: **GI-MW403-121217** Matrix: **Aqueous**

Date Sampled: **12/12/2017 1021**

Date Received: **12/15/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/22/2017 1640	SES	12/22/2017 0923	60410
2	537 MOD	537.1 Modified-ID	1	12/29/2017 2032	SES	12/29/2017 1029	60775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.7	U	3.4	1.7	0.84	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.7	U	3.4	1.7	0.84	ng/L	1
Perfluoro-1-butanesulfonate (PFBS)	**375-73-5**	**537.1 Mod. ID**	**0.70**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluorohexanesulfonate (PFHxS)	**355-46-4**	**537.1 Mod. ID**	**1.1**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.85	U	1.7	0.85	0.42	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.42	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	**375-85-9**	**537.1 Mod. ID**	**2.1**		**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**537.1 Mod. ID**	**3.5**		**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-nonanoic acid (PFNA)	**375-95-1**	**537.1 Mod. ID**	**0.74**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**537.1 Mod. ID**	**4.2**		**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.7	U	3.4	1.7	0.84	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.42	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.42	ng/L	1
Perfluorooctanesulfonate (PFOS)	**1763-23-1**	**537.1 Mod. ID**	**0.82**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_PFDoA		104	50-150	H	116	50-150
13C2_PFTeDA		102	50-150	H	111	50-150
13C3_PFBS		109	50-150	H	117	50-150
13C3_PFHxS		108	50-150	H	112	50-150
13C4_PFHpA		112	50-150	H	112	50-150
13C5_PFHxA		114	50-150	H	118	50-150
13C6_PFDA		110	50-150	H	118	50-150
13C7_PFUdA		109	50-150	H	123	50-150
13C8_PFOA		113	50-150	H	116	50-150
13C8_PFOS		105	50-150	H	113	50-150
13C9_PFNA		114	50-150	H	119	50-150
d5-EtFOSAA		110	50-150	H	120	50-150
d3-MeFOSAA		108	50-150	H	127	50-150

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
LOD = Limit of Detection
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services** Laboratory ID: **SL15079-003**

Description: **GI-MW403-121217** Matrix: **Aqueous**

Date Sampled: **12/12/2017 1021**

Date Received: **12/15/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/22/2017 1640	SES	12/22/2017 0923	60410
2	537 MOD	537.1 Modified-ID	1	12/29/2017 2032	SES	12/29/2017 1029	60775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.7	UH	3.4	1.7	0.84	ng/L	2
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.7	UH	3.4	1.7	0.84	ng/L	2
Perfluoro-1-butanesulfonate (PFBS)	**375-73-5**	**537.1 Mod. ID**	**0.65**	**HJ**	**1.7**	0.85	**0.42**	**ng/L**	**2**
Perfluorohexanesulfonate (PFHxS)	**355-46-4**	**537.1 Mod. ID**	**1.9**	**H**	**1.7**	0.85	**0.42**	**ng/L**	**2**
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.85	UH	1.7	0.85	0.42	ng/L	2
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.85	UH	1.7	0.85	0.42	ng/L	2
Perfluoro-n-heptanoic acid (PFHpA)	**375-85-9**	**537.1 Mod. ID**	**2.1**	**H**	**1.7**	0.85	**0.42**	**ng/L**	**2**
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**537.1 Mod. ID**	**3.3**	**H**	**1.7**	0.85	**0.42**	**ng/L**	**2**
Perfluoro-n-nonanoic acid (PFNA)	**375-95-1**	**537.1 Mod. ID**	**0.78**	**HJ**	**1.7**	0.85	**0.42**	**ng/L**	**2**
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**537.1 Mod. ID**	**4.6**	**H**	**1.7**	0.85	**0.42**	**ng/L**	**2**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.7	UH	3.4	1.7	0.84	ng/L	2
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.85	UH	1.7	0.85	0.42	ng/L	2
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.85	UH	1.7	0.85	0.42	ng/L	2
Perfluorooctanesulfonate (PFOS)	**1763-23-1**	**537.1 Mod. ID**	**9.1**	**H**	**1.7**	0.85	**0.42**	**ng/L**	**2**

Surrogate	Run 1 Q	Run 1 % Recovery	Run 1 Acceptance Limits	Run 2 Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_PFDoA		104	50-150	H	116	50-150
13C2_PFTeDA		102	50-150	H	111	50-150
13C3_PFBS		109	50-150	H	117	50-150
13C3_PFHxS		108	50-150	H	112	50-150
13C4_PFHpA		112	50-150	H	112	50-150
13C5_PFHxA		114	50-150	H	118	50-150
13C6_PFDA		110	50-150	H	118	50-150
13C7_PFUdA		109	50-150	H	123	50-150
13C8_PFOA		113	50-150	H	116	50-150
13C8_PFOS		105	50-150	H	113	50-150
13C9_PFNA		114	50-150	H	119	50-150
d5-EtFOSAA		110	50-150	H	120	50-150
d3-MeFOSAA		108	50-150	H	127	50-150

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
LOD = Limit of Detection
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services** Laboratory ID: **SL15079-004**

Description: **GI-MW401-121217** Matrix: **Aqueous**

Date Sampled: **12/12/2017 1353**

Date Received: **12/15/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/22/2017 1654	SES	12/22/2017 0923	60410
2	537 MOD	537.1 Modified-ID	1	12/29/2017 2046	SES	12/29/2017 1029	60775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.7	U	3.3	1.7	0.84	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.7	U	3.3	1.7	0.84	ng/L	1
Perfluoro-1-butanesulfonate (PFBS)	**375-73-5**	**537.1 Mod. ID**	**0.43**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	0.85	U	1.7	0.85	0.42	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	**335-76-2**	**537.1 Mod. ID**	**0.54**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.42	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	**375-85-9**	**537.1 Mod. ID**	**0.84**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**537.1 Mod. ID**	**1.9**		**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-nonanoic acid (PFNA)	**375-95-1**	**537.1 Mod. ID**	**0.47**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**537.1 Mod. ID**	**1.2**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.7	U	3.3	1.7	0.84	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.42	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.42	ng/L	1
Perfluorooctanesulfonate (PFOS)	**1763-23-1**	**537.1 Mod. ID**	**0.74**	**J**	**1.7**	0.85	**0.42**	**ng/L**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_PFDoA		105	50-150	H	98	50-150
13C2_PFTeDA		93	50-150	H	89	50-150
13C3_PFBS		104	50-150	H	104	50-150
13C3_PFHxS		106	50-150	H	104	50-150
13C4_PFHpA		112	50-150	H	106	50-150
13C5_PFHxA		111	50-150	H	107	50-150
13C6_PFDA		108	50-150	H	104	50-150
13C7_PFUdA		105	50-150	H	104	50-150
13C8_PFOA		112	50-150	H	105	50-150
13C8_PFOS		102	50-150	H	100	50-150
13C9_PFNA		109	50-150	H	104	50-150
d5-EtFOSAA		112	50-150	H	107	50-150
d3-MeFOSAA		112	50-150	H	109	50-150

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
LOD = Limit of Detection
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services** Laboratory ID: **SL15079-004**

Description: **GI-MW401-121217** Matrix: **Aqueous**

Date Sampled: **12/12/2017 1353**

Date Received: **12/15/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/22/2017 1654	SES	12/22/2017 0923	60410
2	537 MOD	537.1 Modified-ID	1	12/29/2017 2046	SES	12/29/2017 1029	60775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.6	UH	3.2	1.6	0.81	ng/L	2
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.6	UH	3.2	1.6	0.81	ng/L	2
Perfluoro-1-butanesulfonate (PFBS)	375-73-5	537.1 Mod. ID	0.80	UH	1.6	0.80	0.41	ng/L	2
Perfluorohexanesulfonate (PFHxS)	**355-46-4**	**537.1 Mod. ID**	**0.44**	**HJ**	**1.6**	0.80	**0.41**	**ng/L**	**2**
Perfluoro-n-decanoic acid (PFDA)	**335-76-2**	**537.1 Mod. ID**	**0.58**	**HJ**	**1.6**	0.80	**0.41**	**ng/L**	**2**
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.80	UH	1.6	0.80	0.41	ng/L	2
Perfluoro-n-heptanoic acid (PFHpA)	**375-85-9**	**537.1 Mod. ID**	**0.95**	**HJ**	**1.6**	0.80	**0.41**	**ng/L**	**2**
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**537.1 Mod. ID**	**2.1**	**H**	**1.6**	0.80	**0.41**	**ng/L**	**2**
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.80	UH	1.6	0.80	0.41	ng/L	2
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**537.1 Mod. ID**	**1.5**	**HJ**	**1.6**	0.80	**0.41**	**ng/L**	**2**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.6	UH	3.2	1.6	0.81	ng/L	2
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.80	UH	1.6	0.80	0.41	ng/L	2
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.80	UH	1.6	0.80	0.41	ng/L	2
Perfluorooctanesulfonate (PFOS)	**1763-23-1**	**537.1 Mod. ID**	**1.0**	**HJ**	**1.6**	0.80	**0.41**	**ng/L**	**2**

Surrogate	Run 1 Q	Run 1 % Recovery	Run 1 Acceptance Limits	Run 2 Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_PFDoA		105	50-150	H	98	50-150
13C2_PFTeDA		93	50-150	H	89	50-150
13C3_PFBS		104	50-150	H	104	50-150
13C3_PFHxS		106	50-150	H	104	50-150
13C4_PFHpA		112	50-150	H	106	50-150
13C5_PFHxA		111	50-150	H	107	50-150
13C6_PFDA		108	50-150	H	104	50-150
13C7_PFUdA		105	50-150	H	104	50-150
13C8_PFOA		112	50-150	H	105	50-150
13C8_PFOS		102	50-150	H	100	50-150
13C9_PFNA		109	50-150	H	104	50-150
d5-EtFOSAA		112	50-150	H	107	50-150
d3-MeFOSAA		112	50-150	H	109	50-150

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
LOD = Limit of Detection
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
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S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services** Laboratory ID: **SL15079-005**

Description: **FRB121217** Matrix: **Aqueous**

Date Sampled: **12/12/2017 1035**

Date Received: **12/15/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/22/2017 1707	SES	12/22/2017 0923	60410
2	537 MOD	537.1 Modified-ID	1	12/29/2017 2059	SES	12/29/2017 1029	60775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.7	U	3.3	1.7	0.83	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.7	U	3.3	1.7	0.83	ng/L	1
Perfluoro-1-butanesulfonate (PFBS)	375-73-5	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.7	U	3.3	1.7	0.83	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.41	ng/L	1
Perfluorooctanesulfonate (PFOS)	**1763-23-1**	**537.1 Mod. ID**	**0.76**	**J**	**1.7**	0.85	**0.41**	**ng/L**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_PFDoA		106	50-150	H	106	50-150
13C2_PFTeDA		100	50-150	H	103	50-150
13C3_PFBS		108	50-150	H	107	50-150
13C3_PFHxS		109	50-150	H	110	50-150
13C4_PFHpA		115	50-150	H	108	50-150
13C5_PFHxA		114	50-150	H	110	50-150
13C6_PFDA		112	50-150	H	108	50-150
13C7_PFUdA		115	50-150	H	109	50-150
13C8_PFOA		113	50-150	H	105	50-150
13C8_PFOS		110	50-150	H	107	50-150
13C9_PFNA		116	50-150	H	110	50-150
d5-EtFOSAA		109	50-150	H	114	50-150
d3-MeFOSAA		109	50-150	H	118	50-150

LOQ = Limit of Quantitation
U = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
LOD = Limit of Detection
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services** Laboratory ID: **SL15079-005**

Description: **FRB121217** Matrix: **Aqueous**

Date Sampled: **12/12/2017 1035**

Date Received: **12/15/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/22/2017 1707	SES	12/22/2017 0923	60410
2	537 MOD	537.1 Modified-ID	1	12/29/2017 2059	SES	12/29/2017 1029	60775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.8	UH	3.5	1.8	0.87	ng/L	2
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.8	UH	3.5	1.8	0.87	ng/L	2
Perfluoro-1-butanesulfonate (PFBS)	375-73-5	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**537.1 Mod. ID**	**5.0**	**H**	**1.7**	0.85	**0.43**	**ng/L**	**2**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.8	UH	3.5	1.8	0.87	ng/L	2
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2
Perfluorooctanesulfonate (PFOS)	1763-23-1	537.1 Mod. ID	0.85	UH	1.7	0.85	0.43	ng/L	2

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
13C2_PFDoA		106	50-150	H	106	50-150
13C2_PFTeDA		100	50-150	H	103	50-150
13C3_PFBS		108	50-150	H	107	50-150
13C3_PFHxS		109	50-150	H	110	50-150
13C4_PFHpA		115	50-150	H	108	50-150
13C5_PFHxA		114	50-150	H	110	50-150
13C6_PFDA		112	50-150	H	108	50-150
13C7_PFUdA		115	50-150	H	109	50-150
13C8_PFOA		113	50-150	H	105	50-150
13C8_PFOS		110	50-150	H	107	50-150
13C9_PFNA		116	50-150	H	110	50-150
d5-EtFOSAA		109	50-150	H	114	50-150
d3-MeFOSAA		109	50-150	H	118	50-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
U = Not detected at or above the LOQ
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
LOD = Limit of Detection
S = MS/MSD failure

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Appendix C

Support Documentation

eurofins | Spectrum Analytical

TK1739

CHAIN OF CUSTODY RECORD

Page ____ of ____

Special Handling:

☐ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Mike Horton
TetraTech
Salem, NH

Telephone #: (603)-328-1464
Project Mgr: Mike Horton

Invoice To: SAME

P.O No.: _____ Quote #: _____

Project No: 112CB8005-ME22
Site Name: NAVSTA Newport
Location: Gould Island Site 17 State: RI
Sampler(s): Matt Pratt, Dane Winton

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= None 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	List Preservative Code below:							Check if chlorinated
										2A	4	4	11	11	11		
										Analysis: VOAs	TOTAL metals	D. 3x, mercury	SVOC/PAH	PCBs	Ammonia/NO3		
	TB-121217	12/12/17	—		Aq	3	1	1	1	3	1	1	1	1	1		☐
	G32-mw303B-121217	12/12/17	1330		GW	3	4	—	3	3	1	1	2	2	1		☐
	GI-mw-402-121217	12/12/17	1030		GW	3	4	—	3	3	1	1	2	2	1		☐
	G32-mw306SR-121217	12/12/17	1010		GW	3	4	—	3	3	1	1	2	2	1		☐
	G44S-mw-207-121217	12/12/17	0755		GW	3	4	—	3	3	1	1	2	2	1		☐
	GI-mw403-121217	12/12/17	1021		GW	3	4	—	3	3	1	1	2	2	1		☐
	GI-mw401-121217	12/12/17	1353		GW	3	4	—	3	3	1	1	2	2	1		☐
																	☐
																	☐
																	☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:
[signature]	Courier	12/13/17	1:30
KAS	[signature]	12/13/17	1630

Temp °C
Observed
Correction Factor
Corrected
IR ID #

☐ EDD format: _____
☐ E-mail to: _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

01000000

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page ____ of ____

Special Handling:

☐ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: mike Horton
TetraTech
Salem, NH

Telephone #: 603-328-1467
Project Mgr: mike Horton

Invoice To: Same

P.O No.: _____ Quote #: _____

Project No: 112G08005-WE22
Site Name: Gard Island, NAVSTA Newport
Location: Site 17 State: _____
Sampler(s): Walt Pratt, Dan Gwin

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 6°C 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	List Preservative Code below: 11	Analysis: PFAs	Check if chlorinated
	FRB121217	12/12/17	1035		GW	X	X	X	2		2	☐
	G32-mw-303B-121217		1330		GW	X	X	X	2		2	☐
	GI-mw-402-121217		1030		GW	X	X	X	2		2	☐
	GI-mw403-121217		1021		GW	X	X	X	2		2	☐
	GI-mw401-121217	↓	1353		GW	X	X	X	2		2	☐
												☐
												☐
												☐
												☐
												☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
DT	Courier	12/13/17	1:30	Observed
KAS		12/13/17	1630	Correction Factor
				Corrected
				IR ID #

☐ EDD format: _____
☐ E-mail to: _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

1100000

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS, INC.
NAVSTA NEWPORT, GOULD ISLAND CTO-WE22
TK1739

Sample Receipt

The following samples were received on December 13, 2017 and were logged in under Katahdin Analytical Services work order number TK1739 for a hardcopy due date of December 29, 2017.

KATAHDIN Sample No.	TTNUS Sample Identification
TK1739-1	TB-121217
TK1739-2	G32-MW303B-121217
TK1739-3	G32-MW303B-121217
TK1739-4	GI-MW402-121217
TK1739-5	GI-MW402-121217
TK1739-6	G32-MW306SR-121217
TK1739-7	G32-MW306SR-121217
TK1739-8	G44S-MW207-121217
TK1739-9	G44S-MW207-121217
TK1739-10	GI-MW403-121217
TK1739-11	GI-MW403-121217
TK1739-12	GI-MW401-121217
TK1739-13	GI-MW401-121217
TK1739-14	FRB121217

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Heather Manz**. This narrative is an integral part of the Report of Analysis.

Reissue 01/29/2018

This report is being reissued to include additional analytes in the "Volatiles Data" section.

Organics Analysis

The samples of work order TK1739 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8260B Analysis

Note: The Form VII has a column for %D that is set to 20%. The DoD QSM 5.0 criterion for an opening CV is 20%D and a closing CV is 50%D. All of the compounds in the CV's were evaluated to either 20% criteria for opening CVs or 50% criteria for closing CVs.

8082A Analysis

Sample TK1739-2 had low recoveries for the extraction surrogate DCB on both channels. Sample TK1739-12 had low recoveries for the extraction surrogate TCX on both channels. These deviations were outside of the laboratory established and DoD QSM acceptance limits, respectively. The client was contacted on 12/19/17 and the laboratory was advised to proceed with narration.

The LCS WG220255-3 had a low recovery for the extraction surrogate TCX on channel A that was outside of the DoD QSM acceptance limits. Since the surrogate recovery was acceptable on channel B, and the spike recoveries were acceptable, no further action was taken.

The closing calibration verification standard (file 8KL00558) had a high response for the target analyte Aroclor-1260 on channel B that resulted in a %D that was outside of the DoD QSM acceptance criteria of ±20%. Since the response was acceptable on channel A, no further action was taken.

8270D SIM Analysis

Samples TK1739-2 and 8 were manually integrated for the analytes benzo(b)fluoranthene and/or benzo(k)fluoranthene. The specific reason for the manual integration is indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin Work Order TK1739 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Mass Spectrometric Analysis (ICP-MS)

Aqueous-matrix Katahdin Sample Numbers TK1739-(2-13) were digested for ICP-MS analysis on 12/15/17 (QC Batch KK15IMW1) in accordance with USEPA Method 3010A.

ICP-MS analyses of Katahdin Work Order TK1739 sample digestates was performed using an Agilent 7500 ICP-MS spectrometer in accordance with USEPA Method 6020A. Results for all standards and samples are reported using the mean of 3 replicate measurements. All sample digestates were diluted by a factor of 5 during analysis to reduce mass interferences from chlorine, which is present in the digestates from the hydrochloric acid used in digesting the samples. All samples were analyzed within holding times and all analytical run QC criteria were met.

Internal standard recoveries for ICP-MS analyses can be found in the raw data section of the accompanying data package. The following table indicates which analytes are associated with each internal standard element.

Internal Standard Element	Associated Analytes
Lithium	Beryllium, Boron
Scandium	Sodium, Magnesium, Aluminum, Potassium, Calcium
Germanium or Yttrium	Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Zinc, Arsenic, Selenium, Silver, Cadmium, Strontium, Molybdenum
Terbium	Antimony, Barium, Tin, Tungsten
Bismuth	Lead, Thallium, Thorium, Uranium

Instrument tuning information can also be found in the raw data section in the report labeled "6020 QC Tune Report". The relative standard deviation was determined from 4 replicate measurements. The peak width was measured at 10% of the peak height.

Reporting of Metals Results

Per client request, analytical results for client samples on Form I and preparation blanks on Form IIIP have been reported using the laboratory's limits of detection (LOD). All results were evaluated down to the laboratory's method detection limits (MDLs). Results that fall between the MDL and the LOQ are flagged with "J" in the C-qualifier column, and the measured concentration appears in the concentration column. Results that are less than the MDL are flagged with "U" in the C-qualifier column, and the LOD is listed in the concentration column. These LOQs, MDLs and LODs have been adjusted for each sample based on the sample amounts used in preparation and analysis.

Analytical results on Forms VA, VD, VII, and IX for client samples, matrix QC samples (duplicates and matrix spikes), and laboratory control samples have been reported down to the laboratory's method detection limits (MDLs). Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column, and the measured concentration is listed in the concentration column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).
DLs, LODs, MDLs, and LOQs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of Work Order TK1739 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for chloride, nitrate, and sulfate were performed according to "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979, Revised 1983, U.S. EPA.

Analyses for alkalinity were performed according to "Standard Methods for the Examination of Water and Wastewater", 15th, 16th, 17th, 18th, 19th, and 20th editions, 1980, 1985, 1989, 1992, 1995, 1999. APHA-AWWA-WPCF.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All analyses were performed within analytical holding times, and all quality control criteria were met with the following exceptions:

Due to instrument failure the nitrate results for Katahdin sample numbers TK1739-4, TK1739-8, and TK1739-10 were not acquired within the 48 hour analytical hold time. At client request the samples were run outside hold time.

TK1739-4	TK1739-8	TK1739-10
9 minutes out of hold	248 minutes out of hold	2 minutes out of hold

Subcontracted Data

Analyses for PFA's by Method 537 were performed by subcontract laboratories. Please refer to the sections of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Quality Assurance Officer, or their designee, as verified by the following signature.

Edward A Munger 01-29-18
for

Leslie Dimond
Quality Assurance Officer

VOLATILES DATA

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport, Gould Island CTO-WE22 **Matrix:** AQ
Lab Code: KAS **SDG:** TK1739

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
TB-121217	TK1739-1		95.6		104.		102.		102.	
GI-MW403-121217	TK1739-10		97.4		102.		104.		100.	
GI-MW401-121217	TK1739-12		98.3		101.		103.		101.	
G32-MW303B-121217	TK1739-2		93.2		104.		102.		102.	
GI-MW402-121217	TK1739-4		93.6		109.		102.		101.	
G32-MW306SR-121217	TK1739-6		97.5		101.		106.		99.7	
G44S-MW207-121217	TK1739-8		98.1		103.		103.		100.	
Laboratory Control S	WG220317-8		99.4		104.		102.		98.6	
Method Blank Sample	WG220317-9		98.2		105.		104.		102.	
Laboratory Control S	WG220390-8		99.7		99.9		96.1		101.	
Method Blank Sample	WG220390-9		98.3		101.		104.		100.	

		QC Limits
DCA	1,2-DICHLOROETHANE-D4	81-118
TOL	TOLUENE-D8	89-112
DBF	DIBROMOFLUOROMETHANE	80-119
BFB	P-BROMOFLUOROBENZENE	85-114

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Island CTO-WE2
Lab File ID : T3678.D
Instrument ID : GCMS-T
Heated Purge : No

SDG : TK1739
Lab Sample ID : WG220317-9
Date Analyzed : 19-DEC-17
Time Analyzed : 16:10

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG220317-8	T3676.D	12/19/17	14:53
TB-121217	TK1739-1	T3682.D	12/19/17	18:33
G32-MW303B-121217	TK1739-2	T3685.D	12/19/17	20:21
GI-MW402-121217	TK1739-4	T3686.D	12/19/17	20:56

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG220317-9
Client ID: Method Blank Sample
Project:
SDG: TK1739
Lab File ID: T3678.D

Sample Date:
Received Date:
Extract Date: 19-DEC-17
Extracted By: JSS/HC
Extraction Method: SW846 5030
Lab Prep Batch: WG220317

Analysis Date: 19-DEC-17
Analyst: JSS/HC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.2	%					
Toluene-d8		102.	%					
1,2-Dichloroethane-d4		104.	%					
Dibromofluoromethane		105.	%					

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P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

REISSUE

Katahdin Analytical Services 1000121

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Island CTO-WE2
Lab File ID : T3702.D
Instrument ID : GCMS-T
Heated Purge : No

SDG : TK1739
Lab Sample ID : WG220390-9
Date Analyzed : 20-DEC-17
Time Analyzed : 16:32

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG220390-8	T3700.D	12/20/17	15:21
G32-MW306SR-121217	TK1739-6	T3703.D	12/20/17	17:08
G44S-MW207-121217	TK1739-8	T3704.D	12/20/17	17:44
GI-MW403-121217	TK1739-10	T3705.D	12/20/17	18:20
GI-MW401-121217	TK1739-12	T3706.D	12/20/17	18:56

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG220390-9
Client ID: Method Blank Sample
Project:
SDG: TK1739
Lab File ID: T3702.D

Sample Date:
Received Date:
Extract Date: 20-DEC-17
Extracted By: JSS/HC
Extraction Method: SW846 5030
Lab Prep Batch: WG220390

Analysis Date: 20-DEC-17
Analyst: JSS/HC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.3	%					
Toluene-d8		100.	%					
1,2-Dichloroethane-d4		104.	%					
Dibromofluoromethane		101.	%					

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REISSUE

Katahdin Analytical Services 1000124

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Islanc
Lab ID : WG220390-4
Lab File ID : T3694.D

SDG: TK1739
Analytical Date: 12/20/17 11:45
Instrument ID: GCMS-T

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	520740		6.12		839790		6.90		739731		10.91	
	Upper Limit	1041480		6.62		1679580		7.40		1479462		11.41	
	Lower Limit	260370		5.62		419895		6.40		369865.5		10.41	
Client Sample ID	Lab Sample ID												
Laboratory Control S	WG220390-8	516636		6.12		817639		6.90		727049		10.91	
Method Blank Sample	WG220390-9	493755		6.12		806258		6.90		721781		10.91	
G32-MW306SR-12121	TK1739-6	488202		6.12		806586		6.90		717693		10.91	
G44S-MW207-121217	TK1739-8	481847		6.12		796719		6.90		713471		10.91	
GI-MW403-121217	TK1739-10	485029		6.11		787209		6.89		705974		10.91	
GI-MW401-121217	TK1739-12	484254		6.12		779187		6.90		700507		10.91	
Continuing Calibrati	WG220390-11	469795		6.12		761261		6.90		666491		10.91	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Islanc
Lab ID : WG220390-4
Lab File ID : T3694.D

SDG: TK1739
Analytical Date: 12/20/17 11:45
Instrument ID: GCMS-T

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	350667		13.98	
	Upper Limit	701334		14.48	
	Lower Limit	175333.5		13.48	
Client Sample ID	Lab Sample ID				
Laboratory Control S	WG220390-8	341761		13.98	
Method Blank Sample	WG220390-9	323455		13.98	
G32-MW306SR-12121	TK1739-6	329044		13.98	
G44S-MW207-121217	TK1739-8	324173		13.98	
GI-MW403-121217	TK1739-10	318187		13.98	
GI-MW401-121217	TK1739-12	314190		13.98	
Continuing Calibrati	WG220390-11	319736		13.98	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Islanc
Lab ID : WG220317-4
Lab File ID : T3670.D

SDG: TK1739
Analytical Date: 12/19/17 11:03
Instrument ID: GCMS-T

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	386109		6.12		615914		6.90		561780		10.91	
	Upper Limit	772218		6.62		1231828		7.40		1123560		11.41	
	Lower Limit	193054.5		5.62		307957		6.40		280890		10.41	
Client Sample ID	Lab Sample ID												
Laboratory Control S	WG220317-8	383860		6.13		625265		6.91		555538		10.92	
Method Blank Sample	WG220317-9	331308		6.12		546261		6.90		496674		10.91	
TB-121217	TK1739-1	298258		6.12		498283		6.90		448834		10.91	
G32-MW303B-121217	TK1739-2	286236		6.12		480713		6.90		440770		10.91	
GI-MW402-121217	TK1739-4	270391		6.12		463904		6.90		424259		10.91	
Continuing Calibrati	WG220317-11	309974		6.12		502092		6.90		459135		10.91	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Islanc
Lab ID : WG220317-4
Lab File ID : T3670.D

SDG: TK1739
Analytical Date: 12/19/17 11:03
Instrument ID: GCMS-T

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	287294		13.98	
	Upper Limit	574588		14.48	
	Lower Limit	143647		13.48	
Client Sample ID	Lab Sample ID				
Laboratory Control S	WG220317-8	279636		13.98	
Method Blank Sample	WG220317-9	240642		13.98	
TB-121217	TK1739-1	215374		13.98	
G32-MW303B-121217	TK1739-2	208233		13.98	
GI-MW402-121217	TK1739-4	204893		13.98	
Continuing Calibrati	WG220317-11	232784		13.98	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

KATAHDIN ANALYTICAL SERVICES

GCMS-T INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 12-19-17 B 10:28

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	pH Paper Lot #: PH	COMMENTS
50ngBFB -10	T3521	1	—	EA8260D	✓						Y	TR	—	WG820317
50 -4	T3670		1	TAR(69)D							Y			
20 -3	T3671		2								Y			Curve
5 -2	T3672		3								Y			OK
1 -1	T3673		4								Y			
150 -6	T3674		5								Y			
100 -5	T3675		6								Y			
VBLK/LCS -7/8	T3676		7								Y			
VBLKA	T3677		8								N			Target hits
D -9	T3678		9								Y		↓	
MeoHBlk -12	T3679		10								Y		—	
TK15557-1A	T3680		11						5.0		Y		<2	
-2A	T3681		12						↓		Y		<2	
TK17259-1A	T3682		13						5.1		Y		<2	
TK16059-4DL	T3683		14						5.0		Y		—	80ul MeOH + 1ml DI
TK15764-1DL	T3684		15						5.0		N		—	5ul MeOH + 1ml DI Run 100µL
TK17259-2A	T3685		16						5.1		Y		<2	
-4A	T3686		17						↓		Y		<2	
CCV TIC [illegible]	T3687		18								N		—	2132 ✓
-11	T3688		19								Y			2208 ✓
↓	T3689		20								N			Not needed
Rinse	T3690		21								I			
↓	T3691		22	↓							—	↓	—	
														TTC 12/20/17

STANDARD	CODE
BFB	r0904
CAL. STD.	r0947/r0948
LCS/MS MIX	r0948
EXTRAS MIX	r0950

STANDARD	CODE
IS MIX	r0949
SS MIX	↓

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

GCMS-T INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 12-20-17B 1119

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	pH Paper Lot #: Y/N	ANALYST	PH	COMMENTS
WG220390-8	JB523	-1	-1	VOABFBAQ							Y	JB		
-4	T3694	1	1	T8A05(10)D							Y			Curve OK
-3	95	1	2								Y			
-2	96	1	3								Y			
-1	97	1	4								Y			
-6	98	1	5								Y			
-5	99	1	6								Y			
-7	T3700	1	7								Y			
VBLK	01	1	8								N			
WG220390-9	02	1	9								Y			
JK1739-6	03	1	10						5.0		Y		<2	
-8	04	1	11								Y		<2	
-10	05	1	12								Y		<2	
-12	06	1	13								Y		<2	
JK1811-1	07	1	14								Y		<2	
-4	08	1	15								Y		<2	
-5	09	1	16								Y		<2	
-6	10	1	17								Y		<2	
-8	11	1	18								Y		<2	
-10	12	1	19								Y		<2	
CCV1 -11	13	1	20								Y			0308 ✓
2	14	1	21								N			Not needed
3	15	1	22								N			↓
Rinse	16	1	23								—			
Rinse	17	1	24								—			
														TIC 12/21/17

STANDARD	CODE
BFB	V0904
CAL. STD.	V0958/V0957A
LCS/MS MIX	V0948
EXTRAS MIX	V0950

STANDARD	CODE
IS MIX	V0949
SS MIX	

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

SIM SEMIVOLATILES DATA

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport, Gould Island CTO-WE22 **Matrix:** AQ
Lab Code: KAS **SDG:** TK1739

Client Sample ID	Lab Sample ID	Col. ID	2MN	#	DBP	#	FLO	#	PYR	#
GI-MW403-121217	TK1739-10		88.7		82.3		82.6		99.0	
GI-MW401-121217	TK1739-12		84.7		82.4		79.4		75.7	
G32-MW303B-121217	TK1739-2		70.2		64.4		67.8		93.8	
GI-MW402-121217	TK1739-4		74.6		72.5		72.8		91.5	
G32-MW306SR-121217	TK1739-6		72.8		68.6		70.8		90.6	
G44S-MW207-121217	TK1739-8		61.5		61.8		67.2		91.5	
Method Blank Sample	WG220256-1		73.4		66.6		67.8		84.1	
Laboratory Control S	WG220256-2		70.3		62.0		62.1		74.1	
Laboratory Control S	WG220256-3		78.7		66.5		65.9		76.5	

		QC Limits
DBP	2,4-DIBROMOPHENOL	10-130
2MN	2-METHYLNAPHTHALENE-D10	43-92
FLO	FLUORENE-D10	29-101
PYR	PYRENE-D10	53-166

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : TK1739
Project : NAVSTA Newport, Gould Island CTO-WE2
Lab Sample ID : WG220256-1
Lab File ID : N7095.D
Date Extracted : 18-DEC-17
Instrument ID : GCMS-N
Date Analyzed : 21-DEC-17
Matrix : AQ
Time Analyzed : 18:24

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG220256-2	N7096.D	12/21/17	18:56
Laboratory Control S	WG220256-3	N7097.D	12/21/17	19:28
G32-MW303B-121217	TK1739-2	N7098.D	12/21/17	20:01
GI-MW402-121217	TK1739-4	N7099.D	12/21/17	20:33
G32-MW306SR-121217	TK1739-6	N7100.D	12/21/17	21:05
G44S-MW207-121217	TK1739-8	N7101.D	12/21/17	21:38
GI-MW403-121217	TK1739-10	N7102.D	12/21/17	22:11
GI-MW401-121217	TK1739-12	N7103.D	12/21/17	22:44

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG220256-1
Client ID: Method Blank Sample
Project:
SDG: TK1739
Lab File ID: N7095.D

Sample Date:
Received Date:
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220256

Analysis Date: 21-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.50	ug/L	1	1	1.0	0.33	0.50
Naphthalene	U	0.10	ug/L	1	.2	0.20	0.064	0.10
2-Methylnaphthalene	U	0.10	ug/L	1	.2	0.20	0.077	0.10
Phenanthrene	U	0.10	ug/L	1	.2	0.20	0.051	0.10
Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.073	0.10
Pyrene	U	0.10	ug/L	1	.2	0.20	0.059	0.10
Benzo(a)anthracene	U	0.10	ug/L	1	.2	0.20	0.046	0.10
Chrysene	U	0.10	ug/L	1	.2	0.20	0.036	0.10
Benzo(b)Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.089	0.10
Benzo(k)fluoranthene	U	0.10	ug/L	1	.2	0.20	0.049	0.10
Benzo(a)pyrene	U	0.10	ug/L	1	.2	0.20	0.066	0.10
Indeno(1,2,3-cd)pyrene	U	0.10	ug/L	1	.2	0.20	0.052	0.10
Dibenzo(a,h)anthracene	U	0.10	ug/L	1	.2	0.20	0.070	0.10
Benzo(g,h,i)perylene	U	0.10	ug/L	1	.2	0.20	0.065	0.10
2-Methylnaphthalene-D10		73.4	%					
2,4-Dibromophenol		66.6	%					
Fluorene-D10		67.8	%					
Pyrene-D10		84.1	%					

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Islanc
Lab ID : WG220497-4
Lab File ID : N7083.D

SDG: TK1739
Analytical Date: 12/21/17 11:59
Instrument ID: GCMS-N

		1,4-DICHLOROBENZENE-D4			NAPHTHALENE-D8			ACENAPHTHENE-D10		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	30609		7.27		105748		8.92		45273		11.26	
	Upper Limit	61218		7.77		211496		9.42		90546		11.76	
	Lower Limit	15304.5		6.77		52874		8.42		22636.5		10.76	
Client Sample ID	Lab Sample ID												
Method Blank Sample	WG220256-1	31188		7.28		109999		8.95		49554		11.26	
Laboratory Control S	WG220256-2	31231		7.27		106729		8.93		45437		11.26	
Laboratory Control S	WG220256-3	31962		7.27		116857		8.93		53552		11.26	
G32-MW303B-121217	TK1739-2	29385		7.28		103549		8.96		42750		11.27	
GI-MW402-121217	TK1739-4	32677		7.28		115742		8.94		50739		11.26	
G32-MW306SR-12121	TK1739-6	31403		7.27		112847		8.94		53058		11.26	
G44S-MW207-121217	TK1739-8	30752		7.27		109487		8.95		50275		11.26	
GI-MW403-121217	TK1739-10	32977		7.28		118612		8.94		53099		11.26	
GI-MW401-121217	TK1739-12	31019		7.27		108947		8.95		46458		11.26	
Continuing Calibrati	WG220497-9	31044		7.27		109700		8.92		48707		11.26	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Islanc
Lab ID : WG220497-4
Lab File ID : N7083.D

SDG: TK1739
Analytical Date: 12/21/17 11:59
Instrument ID: GCMS-N

		PHENANTHRENE-D10				CHRYSENE-D12				PERYLENE-D12			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	68668		13.25		27009		17.01		13727		20.04	
	Upper Limit	137336		13.75		54018		17.51		27454		20.54	
	Lower Limit	34334		12.75		13504.5		16.51		6863.5		19.54	
Client Sample ID	Lab Sample ID												
Method Blank Sample	WG220256-1	72876		13.26		22562		17.05		13900		20.04	
Laboratory Control S	WG220256-2	61099		13.25		22509		17.02		16412		20.03	
Laboratory Control S	WG220256-3	80082		13.25		27331		17.01		17160		20.03	
G32-MW303B-121217	TK1739-2	56618		13.27		18022		17.05		12333		20.05	
GI-MW402-121217	TK1739-4	72521		13.26		22755		17.04		14724		20.04	
G32-MW306SR-12121	TK1739-6	75923		13.25		27789		17.02		16670		20.03	
G44S-MW207-121217	TK1739-8	73499		13.25		23426		17.03		15274		20.03	
GI-MW403-121217	TK1739-10	78866		13.26		25935		17.04		15907		20.04	
GI-MW401-121217	TK1739-12	64955		13.26		27230		17.03		15716		20.03	
Continuing Calibrati	WG220497-9	70979		13.25		29414		17.01		16610		20.04	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

6.1m
Sep

KATAHDIN ANALYTICAL SERVICES, LLC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP) ✓	SW846 3520 (CLLE)	SW846 3535 (SPE)
Analytical Method: (check one)	SW846 8270	SW846 8270 SIM ✓	EPA 625 (mark meniscus w/ marker to determine IV)
Surrogate ID: SV2839	Surrogate ID: —	Spike ID: SV2838	Spike ID:
Methylene Chloride Lot #: DS883	pH Paper Lot # 4601354	KI Starch Paper ID: 082117	Note samples requiring TRC neutralization in comments section.
pH (1st Extraction) ≤2	H_2SO_4 Lot # 167892	pH (2nd Extraction) ≥11	NaOH Lot # 175869
$NaSO_4$ Lot # 27967003	Filter Paper Lot #: 9851692	Boiling Stones ID: 3-27-2014	Vial Lot #: 343282
Nitrogen Bath Temperature: 36°C			
Prep Start Time: 1000	Prep End Time: 1315	CLLE Start Time: —	CLLE End Date & Time: —

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV 277	Initials	Comments
12-18-17	WAS	WG220286-1	1060	1mL	NL		✓	1mL	12-18-17	D1	KF	R453982
		-2			1mL					2		
		-3								3		
		-4	1060							4		MS TR1777-1
		-5	1060	✓	✓					5		MSD ↓ -1

EX-007 – Revision 5 – 11/08/2017

QAEX342

0000062

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV 277	Initials	Comments
12-18-17	WAS	TR1739-2h	1020	1mL	NL		✓	1mL	12-18-17	D6	KF	
		-4	1000							7		
		-6 f	1010							8		
		-8 f	1040							9		
		-10 g	1000							10		
		-12 f	1060							E1		
		TR1740-12 l	1010							2		
		-14 k l	1010							3		
		-16 l	1000							4		
		-18 l	1060							5		
		-20 l	1060							6		
		-22 l	1030							7		
		TR1777-1 m	1060							8		
		-3 l	1060							9		
		TR1798-5 l	1060							10		
		-6 l	1060							SV 278 A1		
		-7 l	1060							2		
		-8 m	1060							3		
		TR1799-2 l	1060							4		
		-4 m	1060							5		

Reviewed By_____ Date_____

EX-007 – Revision 5 – 11/08/2017

QAEX342

0000063

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5975B - N

DATE OF DFTPP INJECTION: 12/17

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG220494	50ng DFTPP	ND454	1	1	DFTPPSIM	2.0	JCL	OK
-4	SSTD 2.0 N1221	N7083		2	NSPSIM72			✓
-2	0.2	84		3				✓
-3	0.5	85		4				✓
-5	7.0	86		5				✓
-6	10.	87		6				✓
-7	15	88		7				✓
-8	(MD)	89		8				OK
	WG220366-1	90		9				OK
	-2	91		10				low recs
	-3	92		11				low recs
	-4	93		12				low recs
	TK1557-1	94		13				OK
	WG220256-1	95		14				OK
	-2	96		15				OK
	-3	97		16				OK
	TK1739-2	98		17				OK
	-4	99		18				OK
	-6	N7100		19				OK
	-8	01		20				OK
	-10	02		21				OK
	-12	03		22				OK
-9	SSTD 2.0 N1221	04		23				OK
-10		05						—
-11		06						✓

STANDARD	CODE
DFTPP	53014
CAL. STD.	53018 53021
IS MIX	53023

REVIEWED AND APPROVED BY: _____
DATE: _____

SVOA-005 – Revision 1 – 03/01/2011

PCB DATA

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport, Gould Island CTO-WE22 **Matrix:** AQ
Lab Code: KAS **SDG:** TK1739

Lab has protected the document , Can not mark-uo.

Client Sample ID	Lab Sample ID	Col. ID	DCB	#	TCX	#
GI-MW403-121217	TK1739-10	A	48.9		64.2	
GI-MW403-121217	TK1739-10	B	50.0		68.5	
GI-MW401-121217	TK1739-12	A	67.4		59.7	*
GI-MW401-121217	TK1739-12	B	66.9		60.6	*
G32-MW303B-121217	TK1739-2	A	37.7	*	69.2	
G32-MW303B-121217	TK1739-2	B	37.9	*	73.5	
GI-MW402-121217	TK1739-4RE	A	61.3		80.0	
GI-MW402-121217	TK1739-4RE	B	71.0		85.8	
G32-MW306SR-121217	TK1739-6	A	70.2		66.7	
G32-MW306SR-121217	TK1739-6	B	74.9		70.7	
G44S-MW207-121217	TK1739-8	A	64.6		64.6	
G44S-MW207-121217	TK1739-8	B	66.3		67.0	
Method Blank Sample	WG220255-1	A	71.1		61.8	
Method Blank Sample	WG220255-1	B	72.5		71.2	
Laboratory Control S	WG220255-2	A	59.3		64.7	
Laboratory Control S	WG220255-2	B	60.2		70.2	
Laboratory Control S	WG220255-3	A	73.4		59.0	*
Laboratory Control S	WG220255-3	B	73.4		63.8	
Method Blank Sample	WG220411-1	A	49.1		69.1	
Method Blank Sample	WG220411-1	B	70.4		74.9	
Laboratory Control S	WG220411-2	A	76.8		90.0	
Laboratory Control S	WG220411-2	B	83.2		98.7	
Laboratory Control S	WG220411-3	A	80.2		86.5	
Laboratory Control S	WG220411-3	B	86.6		92.8	

		QC Limits
TCX	TETRACHLORO-M-XYLENE	62-111
DCB	DECACHLOROBIPHENYL	44-135

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : TK1739
Project : NAVSTA Newport, Gould Island CTO-WE2
Lab Sample ID : WG220255-1
Lab File ID : 7KL596.D
Date Extracted : 18-DEC-17
Matrix : AQ
Extraction Method : SW846 3510C

Column A
Instrument ID : GC07
Date Analyzed : 18-DEC-17
Time Analyzed : 20:02

Column B
Instrument ID : GC07
Date Analyzed : 18-DEC-17
Time Analyzed : 20:02

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG220255-2	7KL597.D	12/18/17	20:30
Laboratory Control S	WG220255-3	7KL598.D	12/18/17	20:58
G32-MW303B-121217	TK1739-2	7KL608.D	12/19/17	01:39
G32-MW306SR-121217	TK1739-6	7KL612.D	12/19/17	03:31
G44S-MW207-121217	TK1739-8	7KL613.D	12/19/17	03:59
GI-MW403-121217	TK1739-10	7KL614.D	12/19/17	04:28
GI-MW401-121217	TK1739-12	7KL615.D	12/19/17	04:56

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG220255-1
Client ID: Method Blank Sample
Project:
SDG: TK1739
Lab File ID: 7KL596.D

Sample Date:
Received Date:
Extract Date: 18-DEC-17
Extracted By: WAS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220255

Analysis Date: 18-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 04-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.25	ug/L	1	.5	0.50	0.15	0.25
Aroclor-1221	U	0.25	ug/L	1	.5	0.50	0.20	0.25
Aroclor-1232	U	0.25	ug/L	1	.5	0.50	0.089	0.25
Aroclor-1242	U	0.25	ug/L	1	.5	0.50	0.18	0.25
Aroclor-1248	U	0.25	ug/L	1	.5	0.50	0.20	0.25
Aroclor-1254	U	0.25	ug/L	1	.5	0.50	0.082	0.25
Aroclor-1260	U	0.25	ug/L	1	.5	0.50	0.17	0.25
Aroclor-1262	U	0.25	ug/L	1	.5	0.50	0.066	0.25
Aroclor-1268	U	0.25	ug/L	1	.5	0.50	0.072	0.25
Total PCBs	U	2.2	ug/L	1	4.5	4.5	0.066	2.2
Tetrachloro-M-Xylene		71.2	%					
Decachlorobiphenyl		72.5	%					

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : TK1739
Project : NAVSTA Newport, Gould Island CTO-WE2
Lab Sample ID : WG220411-1
Lab File ID : 8KL00545.D
Date Extracted : 20-DEC-17
Matrix : AQ
Extraction Method : SW846 3510C

Column A
Instrument ID : GC08
Date Analyzed : 25-DEC-17
Time Analyzed : 04:26

Column B
Instrument ID : GC08
Date Analyzed : 25-DEC-17
Time Analyzed : 04:26

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
GI-MW402-121217	TK1739-4RE	8KL00539.	12/25/17	02:25
Laboratory Control S	WG220411-2	8KL00546.	12/25/17	04:46
Laboratory Control S	WG220411-3	8KL00547.	12/25/17	05:06

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG220411-1
Client ID: Method Blank Sample
Project:
SDG: TK1739
Lab File ID: 8KL00545.D

Sample Date:
Received Date:
Extract Date: 20-DEC-17
Extracted By: KF
Extraction Method: SW846 3510C
Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 04-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.25	ug/L	1	.5	0.50	0.15	0.25
Aroclor-1221	U	0.25	ug/L	1	.5	0.50	0.20	0.25
Aroclor-1232	U	0.25	ug/L	1	.5	0.50	0.089	0.25
Aroclor-1242	U	0.25	ug/L	1	.5	0.50	0.18	0.25
Aroclor-1248	U	0.25	ug/L	1	.5	0.50	0.20	0.25
Aroclor-1254	U	0.25	ug/L	1	.5	0.50	0.082	0.25
Aroclor-1260	U	0.25	ug/L	1	.5	0.50	0.17	0.25
Aroclor-1262	U	0.25	ug/L	1	.5	0.50	0.066	0.25
Aroclor-1268	U	0.25	ug/L	1	.5	0.50	0.072	0.25
Total PCBs	U	2.2	ug/L	1	4.5	4.5	0.066	2.2
Tetrachloro-M-Xylene		74.9	%					
Decachlorobiphenyl		70.4	%					

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Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services **SDG :** TK1739
Project : NAVSTA Newport, Gould Island CTO-WE2 **Column ID :** A
Instrument ID : GC07

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	
Initial Calibration	WG219936-1	12/13/17	13:14	8.291	21.43	
Initial Calibration	WG219936-2	12/13/17	13:42	8.29	21.44	
Initial Calibration	WG219936-3	12/13/17	14:10	8.287	21.44	
Initial Calibration	WG219936-4	12/13/17	14:39	8.291	21.44	
Initial Calibration	WG219936-5	12/13/17	15:07	8.29	21.44	
Initial Calibration	WG219936-6	12/13/17	15:35	8.286	21.44	
Independent Source	WG219936-7	12/13/17	16:03			
Independent Source	WG219936-8	12/13/17	16:31			
Initial Calibration	WG219936-9	12/13/17	16:59			
Initial Calibration	WG219936-10	12/13/17	17:27			
Initial Calibration	WG219936-11	12/13/17	17:55			
Initial Calibration	WG219936-12	12/13/17	18:23			
Initial Calibration	WG219936-13	12/13/17	18:51			
Initial Calibration	WG219936-14	12/13/17	19:19			
Independent Source	WG219936-15	12/13/17	19:47			
Initial Calibration	WG219936-16	12/13/17	20:16			
Initial Calibration	WG219936-23	12/13/17	23:32			
Initial Calibration	WG219936-24	12/14/17	00:00			
Initial Calibration	WG219936-25	12/14/17	00:29			
Initial Calibration	WG219936-26	12/14/17	00:57			
Initial Calibration	WG219936-27	12/14/17	01:25			
Continuing Calibrati	WG220310-1	12/18/17	16:06	8.272	21.40	
Continuing Calibrati	WG220310-2	12/18/17	16:34			
Method Blank Sample	WG220255-1	12/18/17	20:02	8.274	21.40	
Laboratory Control S	WG220255-2	12/18/17	20:30	8.273	21.4	
Laboratory Control S	WG220255-3	12/18/17	20:58	8.276	21.40	
G32-MW303B-121217	TK1739-2	12/19/17	01:39	8.296	21.42	
Continuing Calibrati	WG220310-3	12/19/17	02:07	8.297	21.42	
Continuing Calibrati	WG220310-4	12/19/17	02:35			
G32-MW306SR-121217	TK1739-6	12/19/17	03:31	8.3	21.43	
G44S-MW207-121217	TK1739-8	12/19/17	03:59	8.303	21.43	
GI-MW403-121217	TK1739-10	12/19/17	04:28	8.303	21.43	
GI-MW401-121217	TK1739-12	12/19/17	04:56	8.304	21.43	
Continuing Calibrati	WG220310-5	12/19/17	08:12	8.305	21.43	

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services **SDG :** TK1739
Project : NAVSTA Newport, Gould Island CTO-WE2 **Column ID :** B
Instrument ID : GC07

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	
Initial Calibration	WG219936-1	12/13/17	13:14	8.213	21.52	
Initial Calibration	WG219936-2	12/13/17	13:42	8.222	21.52	
Initial Calibration	WG219936-3	12/13/17	14:10	8.219	21.52	
Initial Calibration	WG219936-4	12/13/17	14:39	8.222	21.52	
Initial Calibration	WG219936-5	12/13/17	15:07	8.221	21.52	
Initial Calibration	WG219936-6	12/13/17	15:35	8.22	21.52	
Independent Source	WG219936-7	12/13/17	16:03			
Independent Source	WG219936-8	12/13/17	16:31			
Initial Calibration	WG219936-9	12/13/17	16:59			
Initial Calibration	WG219936-10	12/13/17	17:27			
Initial Calibration	WG219936-11	12/13/17	17:55			
Initial Calibration	WG219936-12	12/13/17	18:23			
Initial Calibration	WG219936-13	12/13/17	18:51			
Initial Calibration	WG219936-14	12/13/17	19:19			
Independent Source	WG219936-15	12/13/17	19:47			
Initial Calibration	WG219936-16	12/13/17	20:16			
Initial Calibration	WG219936-23	12/13/17	23:32			
Initial Calibration	WG219936-24	12/14/17	00:00			
Initial Calibration	WG219936-25	12/14/17	00:29			
Initial Calibration	WG219936-26	12/14/17	00:57			
Initial Calibration	WG219936-27	12/14/17	01:25			
Continuing Calibrati	WG220310-1	12/18/17	16:06	8.201	21.47	
Continuing Calibrati	WG220310-2	12/18/17	16:34			
Method Blank Sample	WG220255-1	12/18/17	20:02	8.173	21.46	
Laboratory Control S	WG220255-2	12/18/17	20:30	8.197	21.47	
Laboratory Control S	WG220255-3	12/18/17	20:58	8.203	21.47	
G32-MW303B-121217	TK1739-2	12/19/17	01:39	8.222	21.49	
Continuing Calibrati	WG220310-3	12/19/17	02:07	8.223	21.49	
Continuing Calibrati	WG220310-4	12/19/17	02:35			
G32-MW306SR-121217	TK1739-6	12/19/17	03:31	8.226	21.50	
G44S-MW207-121217	TK1739-8	12/19/17	03:59	8.229	21.50	
GI-MW403-121217	TK1739-10	12/19/17	04:28	8.229	21.50	
GI-MW401-121217	TK1739-12	12/19/17	04:56	8.23	21.50	
Continuing Calibrati	WG220310-5	12/19/17	08:12	8.229	21.50	

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services **SDG :** TK1739
Project : NAVSTA Newport, Gould Island CTO-WE2 **Column ID :** A
Instrument ID : GC08

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	
Initial Calibration	WG217283-1	11/07/17	23:50	3.416	10.97	
Initial Calibration	WG217283-2	11/08/17	00:10	3.42	10.98	
Initial Calibration	WG217283-3	11/08/17	00:30	3.418	10.97	
Initial Calibration	WG217283-4	11/08/17	00:51	3.421	10.97	
Initial Calibration	WG217283-5	11/08/17	01:11	3.418	10.97	
Initial Calibration	WG217283-6	11/08/17	01:31	3.419	10.97	
Independent Source	WG217283-7	11/08/17	01:52			
Independent Source	WG217283-8	11/08/17	02:12			
Initial Calibration	WG217283-9	11/08/17	02:32			
Initial Calibration	WG217283-10	11/08/17	02:52			
Initial Calibration	WG217283-11	11/08/17	03:13			
Initial Calibration	WG217283-12	11/08/17	03:33			
Initial Calibration	WG217283-13	11/08/17	03:53			
Initial Calibration	WG217283-14	11/08/17	04:14			
Independent Source	WG217283-15	11/08/17	04:34			
Initial Calibration	WG217283-16	11/08/17	04:54			
Initial Calibration	WG217283-23	11/08/17	07:16			
Initial Calibration	WG217283-24	11/08/17	07:36			
Initial Calibration	WG217283-25	11/08/17	07:57			
Initial Calibration	WG217283-26	11/08/17	08:17			
Initial Calibration	WG217283-27	11/08/17	08:37			
Continuing Calibrati	WG220715-1	12/24/17	20:58	3.3	10.82	
GI-MW402-121217	TK1739-4RE	12/25/17	02:25	3.302	10.82	
Continuing Calibrati	WG220715-5	12/25/17	03:05	3.302	10.83	
Continuing Calibrati	WG220715-6	12/25/17	03:25			
Method Blank Sample	WG220411-1	12/25/17	04:26	3.308	10.83	
Laboratory Control S	WG220411-2	12/25/17	04:46	3.306	10.82	
Laboratory Control S	WG220411-3	12/25/17	05:07	3.309	10.83	
Continuing Calibrati	WG220715-9	12/25/17	08:48	3.294	10.82	
Continuing Calibrati	WG220715-10	12/25/17	09:09			

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services **SDG :** TK1739
Project : NAVSTA Newport, Gould Island CTO-WE2 **Column ID :** B
Instrument ID : GC08

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCX	DCB	
Initial Calibration	WG217283-1	11/07/17	23:50	4.048	12.91	
Initial Calibration	WG217283-2	11/08/17	00:10	4.05	12.91	
Initial Calibration	WG217283-3	11/08/17	00:30	4.049	12.91	
Initial Calibration	WG217283-4	11/08/17	00:51	4.051	12.91	
Initial Calibration	WG217283-5	11/08/17	01:11	4.049	12.91	
Initial Calibration	WG217283-6	11/08/17	01:31	4.048	12.91	
Independent Source	WG217283-7	11/08/17	01:52			
Independent Source	WG217283-8	11/08/17	02:12			
Initial Calibration	WG217283-9	11/08/17	02:32			
Initial Calibration	WG217283-10	11/08/17	02:52			
Initial Calibration	WG217283-11	11/08/17	03:13			
Initial Calibration	WG217283-12	11/08/17	03:33			
Initial Calibration	WG217283-13	11/08/17	03:53			
Initial Calibration	WG217283-14	11/08/17	04:14			
Independent Source	WG217283-15	11/08/17	04:34			
Initial Calibration	WG217283-16	11/08/17	04:54			
Initial Calibration	WG217283-23	11/08/17	07:16			
Initial Calibration	WG217283-24	11/08/17	07:36			
Initial Calibration	WG217283-25	11/08/17	07:57			
Initial Calibration	WG217283-26	11/08/17	08:17			
Initial Calibration	WG217283-27	11/08/17	08:37			
Continuing Calibrati	WG220715-1	12/24/17	20:58	3.929	12.74	
GI-MW402-121217	TK1739-4RE	12/25/17	02:25	3.933	12.74	
Continuing Calibrati	WG220715-5	12/25/17	03:05	3.931	12.74	
Continuing Calibrati	WG220715-6	12/25/17	03:25			
Method Blank Sample	WG220411-1	12/25/17	04:26	3.935	12.75	
Laboratory Control S	WG220411-2	12/25/17	04:46	3.935	12.75	
Laboratory Control S	WG220411-3	12/25/17	05:06	3.937	12.75	
Continuing Calibrati	WG220715-9	12/25/17	08:48	3.923	12.74	
Continuing Calibrati	WG220715-10	12/25/17	09:09			

METALS DATA

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: TK1739 **SOW No.** SW846

Client Field ID	Lab Sample ID
G32-MW303B-121217	TK1739-002
G32-MW303B-121217	TK1739-003
G32-MW306SR-121217	TK1739-006
G32-MW306SR-121217	TK1739-007
G44S-MW207-121217	TK1739-008
G44S-MW207-121217	TK1739-009
GI-MW401-121217	TK1739-012
GI-MW401-121217	TK1739-013
GI-MW402-121217	TK1739-004
GI-MW402-121217	TK1739-005
GI-MW403-121217	TK1739-010
GI-MW403-121217	TK1739-011

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Madison Dinsmore

Date: 12/30/17 Title: Analyst

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWKL15IMW1

Matrix: WATER **SDG Name:** TK1739

QC Batch ID: KL15IMW1

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	4.0	U
CADMIUM	0.20	U
LEAD	0.50	U
MANGANESE	1.0	U

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** TK1739

Concentration Units: ug/L

SAMPLE: ICSA

File: JKL21A Dec 21, 2017 16:43

Analyte	TRUE	FOUND	% R
ALUMINUM	100000	102600	102.6
ARSENIC	0	0	
CADMIUM	0	0	
CALCIUM	100000	104600	104.6
IRON	100000	101700	101.7
LEAD	0	0	
MAGNESIUM	100000	104700	104.7
MANGANESE	0	0	
MOLYBDENUM	2000	2054	102.7
POTASSIUM	100000	105500	105.5
SODIUM	100000	107900	107.9

SAMPLE: ICSAB

File: JKL21A Dec 21, 2017 16:47

Analyte	TRUE	FOUND	% R
ALUMINUM	100000	101200	101.2
ARSENIC	20	22	110.0
CADMIUM	20	20	100.0
CALCIUM	100000	101300	101.3
IRON	100000	100400	100.4
LEAD	20	22	110.0
MAGNESIUM	100000	102000	102.0
MANGANESE	20	21	105.0
MOLYBDENUM	2000	2069	103.5
POTASSIUM	100000	102600	102.6
SODIUM	100000	104400	104.4

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWKL15IMW1

Matrix: WATER **SDG Name:** TK1739

QC Batch ID: KL15IMW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100	101	101.2	84	116
CADMIUM	250	265	105.9	87	115
LEAD	100	102	102.4	88	115
MANGANESE	500	500	100.0	87	115

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** J

Instrument Name: AGILENT 7500 ICP-MS **Date:** 11/27/2017

Concentration Units: ug/L

Analyte	PQL/LOQ	IDL	M
ALUMINUM	20	3.0	MS
ARSENIC	1.0	0.11	MS
CADMIUM	0.20	0.011	MS
CALCIUM	20	8.7	MS
IRON	20	3.1	MS
LEAD	0.20	0.034	MS
MAGNESIUM	20	3.4	MS
MANGANESE	0.40	0.13	MS
MOLYBDENUM	1.0	0.041	MS
POTASSIUM	200	6.6	MS
SODIUM	200	5.5	MS

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** J

Instrument Name: AGILENT 7500 ICP-MS **Date:** 1/25/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ARSENIC	0.80	ug/L	MS	SW846 3010A / SW846 6020A
CADMIUM	0.040	ug/L	MS	SW846 3010A / SW846 6020A
LEAD	0.10	ug/L	MS	SW846 3010A / SW846 6020A
MANGANESE	0.20	ug/L	MS	SW846 3010A / SW846 6020A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** J

Instrument Name: AGILENT 7500 ICP-MS **Date:** 1/25/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ARSENIC	0.45	ug/L	MS	SW846 3010A / SW846 6020A
CADMIUM	0.0059	ug/L	MS	SW846 3010A / SW846 6020A
LEAD	0.015	ug/L	MS	SW846 3010A / SW846 6020A
MANGANESE	0.070	ug/L	MS	SW846 3010A / SW846 6020A

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** KL15IMW1

Matrix: WATER **SDG Name:** TK1739

Method: MS **Prep Date:** 12/15/2017

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWKL15IMW1	LCSWKL15IMW1	0.05	0.05	
PBWKL15IMW1	PBWKL15IMW1	0.05	0.05	
G32-MW303B-121217	TK1739-002	0.05	0.05	D
G32-MW303B-121217	TK1739-003	0.05	0.05	A
GI-MW402-121217	TK1739-004	0.05	0.05	D
GI-MW402-121217	TK1739-005	0.05	0.05	A
G32-MW306SR-121217	TK1739-006	0.05	0.05	D
G32-MW306SR-121217	TK1739-007	0.05	0.05	A
G44S-MW207-121217	TK1739-008	0.05	0.05	D
G44S-MW207-121217	TK1739-009	0.05	0.05	A
GI-MW403-121217	TK1739-010	0.05	0.05	D
GI-MW403-121217	TK1739-011	0.05	0.05	A
GI-MW401-121217	TK1739-012	0.05	0.05	D
GI-MW401-121217	TK1739-013	0.05	0.05	A

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** TK1739

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JKL21A

Date: 12/21/2017 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements									
6020 TUNE		1	15:28										
200.8 TUNE		1	15:31										
Cal Blank		1	16:21	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
Cal Std 6		1	16:25	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ICV		1	16:28	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ICB		1	16:32	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
PQL		1	16:35	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		1	16:39											
ICSA		1	16:43	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ICSAB		1	16:47	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		1	16:50											
ZZZZZZ		1	16:54											
ZZZZZZ		1	16:57											
ZZZZZZ		1	17:01											
ZZZZZZ		1	17:05											
CCV		1	17:09	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	17:13	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		1	17:16											
ZZZZZZ		1	17:20											
ZZZZZZ		1	17:24											
ZZZZZZ		1	17:27											
ZZZZZZ		1	17:31											
ZZZZZZ		5	17:35											
ZZZZZZ		5	17:39											
ZZZZZZ		5	17:43											
ZZZZZZ		5	17:46											
ZZZZZZ		5	17:50											

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** TK1739

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JKL21A

Date: 12/21/2017 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements									
CCV		1	17:54	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	17:58	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		5	18:02											
ZZZZZZ		1	18:06											
ZZZZZZ		5	18:10											
ZZZZZZ		1	18:13											
ZZZZZZ		1	18:17											
ZZZZZZ		1	18:21											
ZZZZZZ		1	18:25											
ZZZZZZ		1	18:29											
ZZZZZZ		1	18:33											
ZZZZZZ		1	18:37											
CCV		1	18:41	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	18:45	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		1	18:49											
ZZZZZZ		1	18:53											
ZZZZZZ		1	18:57											
ZZZZZZ		1	19:01											
ZZZZZZ		1	19:05											
ZZZZZZ		1	19:09											
ZZZZZZ		1	19:13											
ZZZZZZ		5	19:17											
PBWKL15IMW1		5	19:20		As	Cd			Pb		Mn			
LCSWKL15IMW1		5	19:24		As	Cd			Pb		Mn			
CCV		1	19:28	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	19:32	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		5	19:36											

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** TK1739

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JKL21A

Date: 12/21/2017 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements										
ZZZZZZ		25	19:40											
ZZZZZZ		5	19:44											
ZZZZZZ		5	19:48											
ZZZZZZ		5	19:52											
ZZZZZZ		5	19:56											
ZZZZZZ		5	20:00											
ZZZZZZ		5	20:04											
ZZZZZZ		5	20:09											
ZZZZZZ		1	20:13											
CCV		1	20:17	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	20:21	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		5	20:25											
ZZZZZZ		5	20:29											
ZZZZZZ		5	20:33											
TK1739-002	G32-MW303B-121217	5	20:37		As	Cd			Pb		Mn			
TK1739-003	G32-MW303B-121217	5	20:41		As	Cd			Pb		Mn			
TK1739-004	GI-MW402-121217	5	20:45		As	Cd			Pb		Mn			
TK1739-005	GI-MW402-121217	5	20:49		As	Cd			Pb		Mn			
TK1739-006	G32-MW306SR-121217	5	20:53		As	Cd			Pb		Mn			
TK1739-007	G32-MW306SR-121217	5	20:57		As	Cd			Pb		Mn			
ZZZZZZ		1	21:01											
CCV		1	21:05	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	21:09	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
TK1739-008	G44S-MW207-121217	5	21:14		As	Cd			Pb		Mn			
TK1739-009	G44S-MW207-121217	5	21:18		As	Cd			Pb		Mn			
TK1739-010	GI-MW403-121217	5	21:22		As	Cd			Pb		Mn			
TK1739-011	GI-MW403-121217	5	21:26		As	Cd			Pb		Mn			

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** TK1739

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JKL21A

Date: 12/21/2017 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements									
TK1739-012	GI-MW401-121217	5	21:30		As	Cd		Pb	Mn				
TK1739-013	GI-MW401-121217	5	21:34		As	Cd		Pb	Mn				
ZZZZZZ		1	21:38										
ZZZZZZ		1	21:42										
ZZZZZZ		5	21:46										
ZZZZZZ		5	21:50										
CCV		1	21:55	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	21:59	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\084SMPL.D\084SMPL.D#
Date Acquired: Dec 21 2017 08:37 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-002
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

INTERNAL STANDARD RECOVERIES

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.1597	0.0319	ppb	18.30	100.	
11 B	9.04	1.808	ppb	12.93	1000.	
23 Na	30,410.	6,082.	ppb	2.98	200000.	
25 Mg	6,885.	1,377.	ppb	3.01	200000.	
27 Al	565.	113.	ppb	2.28	200000.	
28 Si	6,635.	1,327.	ppb	3.31	#VALUE!	
29 Si	7,545.	1,509.	ppb	2.96	10000.	
39 K	2,325.5	465.1	ppb	2.32	200000.	
43 Ca	32,000.	6,400.	ppb	2.57	#VALUE!	
44 Ca	32,365.	6,473.	ppb	3.33	200000.	
51 V	0.4322	0.0864	ppb	47.91	1000.	
52 Cr	1.6055	0.3211	ppb	10.20	2000.	
53 Cr	25.965	5.193	ppb	8.94	#VALUE!	
55 Mn	1,126.	225.2	ppb	1.28	2000.	
56 Fe	28,795.	5,759.	ppb	2.32	#VALUE!	
57 Fe	29,165.	5,833.	ppb	2.93	100000.	
59 Co	50.1	10.02	ppb	3.86	1000.	
60 Ni	69.3	13.86	ppb	3.13	1000.	
63 Cu	1.4295	0.2859	ppb	14.09	#VALUE!	
65 Cu	3.36	0.672	ppb	4.40	2000.	
66 Zn	97.2	19.44	ppb	1.75	2000.	
68 Zn	93.8	18.76	ppb	2.97	#VALUE!	
75 As	14.155	2.831	ppb	7.57	1000.	
82 Se	1.9375	0.3875	ppb	42.04	1000.	
88 Sr	156.3	31.26	ppb	2.56	2000.	
98 Mo	0.646	0.1292	ppb	2.23	1000.	
107 Ag	0.2028	0.0406	ppb	11.52	100.	
109 Ag	0.2178	0.0436	ppb	11.32	#VALUE!	
111 Cd	0.2384	0.0477	ppb	24.69	#VALUE!	
114 Cd	0.2434	0.0487	ppb	9.28	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	0.9165	0.1833	ppb	9.37	1000.	
120 Sn	1.056	0.2112	ppb	6.33	#VALUE!	
121 Sb	0.1084	0.0217	ppb	28.45	#VALUE!	
123 Sb	0.1088	0.0218	ppb	8.08	1000.	
135 Ba	60.85	12.17	ppb	1.45	2000.	
137 Ba	60.5	12.1	ppb	2.19	#VALUE!	
182 W	8.89	1.778	ppb	3.16	1000.	
203 Tl	0.0139	0.0028	ppb	164.68	1000.	
205 Tl	0.0237	0.0047	ppb	8.07	#VALUE!	
208 Pb	1.1015	0.2203	ppb	7.41	2000.	
232 Th	0.2653	0.0531	ppb	7.66	1000.	
238 U	0.0633	0.0127	ppb	32.46	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1952665.60	4.38	2100054.30	93.0	69.5 - 120	
45 Sc	2131331.50	1.24	2287457.00	93.2	69.5 - 120	
89 Y	3459535.30	2.14	3522152.00	98.2	69.5 - 120	
159 Tb	4757124.50	1.64	4597738.00	103.5	69.5 - 120	
209 Bi	2689845.30	1.46	2622714.30	102.6	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000112

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\085SMPL.D\085SMPL.D#
Date Acquired: Dec 21 2017 08:41 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-003
Misc Info:
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0674	0.0135	ppb	72.94	100.	
11 B	9.22	1.844	ppb	12.69	1000.	
23 Na	28,545.	5,709.	ppb	1.12	200000.	
25 Mg	6,305.	1,261.	ppb	1.26	200000.	
27 Al	20.14	4.028	ppb	10.40	200000.	
28 Si	7,500.	1,500.	ppb	1.41	#VALUE!	
29 Si	7,105.	1,421.	ppb	4.59	10000.	
39 K	2,226.	445.2	ppb	1.78	200000.	
43 Ca	31,210.	6,242.	ppb	0.93	#VALUE!	
44 Ca	32,045.	6,409.	ppb	0.79	200000.	
51 V	0.0096	0.0019	ppb	6716.80	1000.	
52 Cr	0.3869	0.0774	ppb	65.34	2000.	
53 Cr	13.515	2.703	ppb	15.05	#VALUE!	
55 Mn	1,080.	216.	ppb	0.79	2000.	
56 Fe	22,140.	4,428.	ppb	0.93	#VALUE!	
57 Fe	21,840.	4,368.	ppb	1.13	100000.	
59 Co	43.145	8.629	ppb	1.53	1000.	
60 Ni	56.8	11.36	ppb	0.75	1000.	
63 Cu	-0.8155	-0.1631	ppb	12.21	#VALUE!	
65 Cu	0.726	0.1452	ppb	8.00	2000.	
66 Zn	54.05	10.81	ppb	1.93	2000.	
68 Zn	52.1	10.42	ppb	5.88	#VALUE!	
75 As	6.535	1.307	ppb	11.63	1000.	
82 Se	0.84	0.168	ppb	28.65	1000.	
88 Sr	154.65	30.93	ppb	0.46	2000.	
98 Mo	0.3868	0.0774	ppb	4.60	1000.	
107 Ag	0.041	0.0082	ppb	107.39	100.	
109 Ag	0.0063	0.0013	ppb	359.57	#VALUE!	
111 Cd	-0.2633	-0.0527	ppb	50.68	#VALUE!	
114 Cd	0.0113	0.0023	ppb	301.99	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	0.9895	0.1979	ppb	7.11	1000.	
120 Sn	1.084	0.2168	ppb	11.08	#VALUE!	
121 Sb	0.0829	0.0166	ppb	32.15	#VALUE!	
123 Sb	0.1015	0.0203	ppb	33.21	1000.	
135 Ba	55.95	11.19	ppb	2.96	2000.	
137 Ba	55.15	11.03	ppb	1.40	#VALUE!	
182 W	0.6205	0.1241	ppb	8.56	1000.	
203 Tl	0.0181	0.0036	ppb	18.03	1000.	
205 Tl	0.0273	0.0055	ppb	28.28	#VALUE!	
208 Pb	0.0256	0.0051	ppb	130.14	2000.	
232 Th	0.0216	0.0043	ppb	17.11	1000.	
238 U	0.0077	0.0015	ppb	32.20	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1648847.00	1.11	2100054.30	78.5	69.5 - 120	
45 Sc	1894940.00	1.49	2287457.00	82.8	69.5 - 120	
89 Y	3215179.80	1.50	3522152.00	91.3	69.5 - 120	
159 Tb	4608221.00	1.12	4597738.00	100.2	69.5 - 120	
209 Bi	2653032.80	1.63	2622714.30	101.2	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000113

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\086SMPL.D\086SMPL.D#
Date Acquired: Dec 21 2017 08:45 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-004
Misc Info:
Vial Number: 2410
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0392	0.0078	ppb	66.09	100.	
11 B	38.165	7.633	ppb	8.28	1000.	
23 Na	37,420.	7,484.	ppb	2.25	200000.	
25 Mg	2,736.	547.2	ppb	2.24	200000.	
27 Al	474.4	94.88	ppb	1.44	200000.	
28 Si	7,890.	1,578.	ppb	15.64	#VALUE!	
29 Si	8,520.	1,704.	ppb	12.31	10000.	
39 K	15,800.	3,160.	ppb	2.55	200000.	
43 Ca	10,775.	2,155.	ppb	5.25	#VALUE!	
44 Ca	10,645.	2,129.	ppb	1.74	200000.	
51 V	1.1035	0.2207	ppb	63.89	1000.	
52 Cr	6.105	1.221	ppb	4.11	2000.	
53 Cr	28.36	5.672	ppb	6.62	#VALUE!	
55 Mn	132.65	26.53	ppb	1.26	2000.	
56 Fe	668.	133.6	ppb	5.61	#VALUE!	
57 Fe	689.5	137.9	ppb	3.25	100000.	
59 Co	0.996	0.1992	ppb	5.78	1000.	
60 Ni	2.241	0.4482	ppb	10.81	1000.	
63 Cu	1.51	0.302	ppb	4.49	#VALUE!	
65 Cu	2.924	0.5848	ppb	7.84	2000.	
66 Zn	2.7245	0.5449	ppb	6.11	2000.	
68 Zn	0.1435	0.0287	ppb	937.96	#VALUE!	
75 As	0.8835	0.1767	ppb	98.42	1000.	
82 Se	0.3631	0.0726	ppb	104.23	1000.	
88 Sr	94.95	18.99	ppb	1.53	2000.	
98 Mo	3.918	0.7836	ppb	3.51	1000.	
107 Ag	0.0248	0.005	ppb	69.84	100.	
109 Ag	0.0045	0.0009	ppb	697.17	#VALUE!	
111 Cd	-0.0414	-0.0083	ppb	349.38	#VALUE!	
114 Cd	0.0917	0.0183	ppb	13.67	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.024	0.2048	ppb	10.85	1000.	
120 Sn	1.2425	0.2485	ppb	6.19	#VALUE!	
121 Sb	0.2121	0.0424	ppb	33.29	#VALUE!	
123 Sb	0.2379	0.0476	ppb	27.13	1000.	
135 Ba	22.29	4.458	ppb	1.80	2000.	
137 Ba	22.445	4.489	ppb	3.30	#VALUE!	
182 W	0.6215	0.1243	ppb	4.50	1000.	
203 Tl	0.0207	0.0041	ppb	62.11	1000.	
205 Tl	0.06	0.012	ppb	18.63	#VALUE!	
208 Pb	0.508	0.1016	ppb	7.86	2000.	
232 Th	0.4394	0.0879	ppb	6.33	1000.	
238 U	0.2479	0.0496	ppb	10.92	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1828852.60	7.71	2100054.30	87.1	69.5 - 120	
45 Sc	2017054.40	5.80	2287457.00	88.2	69.5 - 120	
89 Y	3329401.80	3.79	3522152.00	94.5	69.5 - 120	
159 Tb	4572000.50	2.12	4597738.00	99.4	69.5 - 120	
209 Bi	2623551.00	1.37	2622714.30	100.0	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000114

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\087SMPL.D\087SMPL.D#
Date Acquired: Dec 21 2017 08:49 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-005
Misc Info:
Vial Number: 2411
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0107	0.0021	ppb	214.55	100.	
11 B	40.87	8.174	ppb	5.05	1000.	
23 Na	36,065.	7,213.	ppb	1.67	200000.	
25 Mg	2,646.5	529.3	ppb	1.76	200000.	
27 Al	52.9	10.58	ppb	4.16	200000.	
28 Si	8,630.	1,726.	ppb	5.85	#VALUE!	
29 Si	8,650.	1,730.	ppb	6.12	10000.	
39 K	15,340.	3,068.	ppb	1.51	200000.	
43 Ca	10,810.	2,162.	ppb	2.71	#VALUE!	
44 Ca	10,780.	2,156.	ppb	1.90	200000.	
51 V	0.9975	0.1995	ppb	15.05	1000.	
52 Cr	4.814	0.9628	ppb	4.53	2000.	
53 Cr	25.795	5.159	ppb	6.89	#VALUE!	
55 Mn	129.1	25.82	ppb	1.32	2000.	
56 Fe	72.	14.4	ppb	14.79	#VALUE!	
57 Fe	76.35	15.27	ppb	17.58	100000.	
59 Co	0.7495	0.1499	ppb	3.10	1000.	
60 Ni	1.564	0.3128	ppb	6.22	1000.	
63 Cu	0.5685	0.1137	ppb	23.32	#VALUE!	
65 Cu	2.3785	0.4757	ppb	8.97	2000.	
66 Zn	1.786	0.3572	ppb	8.47	2000.	
68 Zn	-0.868	-0.1736	ppb	92.68	#VALUE!	
75 As	1.8205	0.3641	ppb	84.02	1000.	
82 Se	1.841	0.3682	ppb	47.77	1000.	
88 Sr	95.6	19.12	ppb	0.86	2000.	
98 Mo	3.9255	0.7851	ppb	0.40	1000.	
107 Ag	-0.0132	-0.0026	ppb	338.21	100.	
109 Ag	0.0351	0.007	ppb	68.85	#VALUE!	
111 Cd	-0.1428	-0.0286	ppb	112.75	#VALUE!	
114 Cd	0.0721	0.0144	ppb	13.93	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.4025	0.2805	ppb	12.90	1000.	
120 Sn	1.338	0.2676	ppb	14.11	#VALUE!	
121 Sb	0.1781	0.0356	ppb	5.25	#VALUE!	
123 Sb	0.1754	0.0351	ppb	20.36	1000.	
135 Ba	19.745	3.949	ppb	3.95	2000.	
137 Ba	20.395	4.079	ppb	1.59	#VALUE!	
182 W	0.585	0.117	ppb	6.02	1000.	
203 Tl	0.0144	0.0029	ppb	67.72	1000.	
205 Tl	0.0362	0.0072	ppb	44.11	#VALUE!	
208 Pb	0.1613	0.0323	ppb	14.98	2000.	
232 Th	0.0389	0.0078	ppb	49.64	1000.	
238 U	0.1654	0.0331	ppb	15.22	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1650925.30	4.80	2100054.30	78.6	69.5 - 120	
45 Sc	1879915.60	3.16	2287457.00	82.2	69.5 - 120	
89 Y	3179905.30	1.94	3522152.00	90.3	69.5 - 120	
159 Tb	4509338.50	2.42	4597738.00	98.1	69.5 - 120	
209 Bi	2617419.30	1.65	2622714.30	99.8	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000115

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\088SMPL.D\088SMPL.D#
Date Acquired: Dec 21 2017 08:53 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-006
Misc Info:
Vial Number: 2412
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0213	0.0043	ppb	79.17	100.	
11 B	1,775.5	355.1	ppb	2.88	1000.	
23 Na	----	--------	ppb	--------	200000.	>LDR
25 Mg	507,000.	101,400.	ppb	1.03	200000.	
27 Al	89.8	17.96	ppb	3.21	200000.	
28 Si	4,707.	941.4	ppb	6.81	#VALUE!	
29 Si	4,295.5	859.1	ppb	2.21	10000.	
39 K	205,000.	41,000.	ppb	0.35	200000.	
43 Ca	434,250.	86,850.	ppb	0.83	#VALUE!	
44 Ca	408,750.	81,750.	ppb	0.62	200000.	
51 V	0.0906	0.0181	ppb	150.41	1000.	
52 Cr	1.3475	0.2695	ppb	8.56	2000.	
53 Cr	41.865	8.373	ppb	3.15	#VALUE!	
55 Mn	1,043.5	208.7	ppb	0.55	2000.	
56 Fe	844.5	168.9	ppb	2.13	#VALUE!	
57 Fe	1,212.	242.4	ppb	3.86	100000.	
59 Co	2.763	0.5526	ppb	6.16	1000.	
60 Ni	2.5255	0.5051	ppb	11.41	1000.	
63 Cu	180.	36.	ppb	0.84	#VALUE!	
65 Cu	3.0285	0.6057	ppb	7.39	2000.	
66 Zn	8.065	1.613	ppb	1.85	2000.	
68 Zn	11.165	2.233	ppb	19.09	#VALUE!	
75 As	3.7665	0.7533	ppb	6.93	1000.	
82 Se	-0.7515	-0.1503	ppb	83.63	1000.	
88 Sr	4,446.	889.2	ppb	0.20	2000.	
98 Mo	16.54	3.308	ppb	1.13	1000.	
107 Ag	0.0003	0.0001	ppb	4319.80	100.	
109 Ag	-0.033	-0.0066	ppb	95.12	#VALUE!	
111 Cd	0.2201	0.044	ppb	80.83	#VALUE!	
114 Cd	0.0304	0.0061	ppb	167.93	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.2895	0.2579	ppb	4.54	1000.	
120 Sn	1.3195	0.2639	ppb	4.08	#VALUE!	
121 Sb	0.4809	0.0962	ppb	17.01	#VALUE!	
123 Sb	0.5165	0.1033	ppb	9.05	1000.	
135 Ba	165.65	33.13	ppb	1.12	2000.	
137 Ba	161.65	32.33	ppb	0.21	#VALUE!	
182 W	0.974	0.1948	ppb	4.66	1000.	
203 Tl	0.0079	0.0016	ppb	422.83	1000.	
205 Tl	0.0192	0.0038	ppb	57.55	#VALUE!	
208 Pb	0.1387	0.0277	ppb	41.72	2000.	
232 Th	0.0524	0.0105	ppb	8.77	1000.	
238 U	1.366	0.2732	ppb	3.33	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1785513.30	1.54	2100054.30	85.0	69.5 - 120	
45 Sc	2251509.80	1.55	2287457.00	98.4	69.5 - 120	
89 Y	3404973.00	1.42	3522152.00	96.7	69.5 - 120	
159 Tb	4425493.00	0.80	4597738.00	96.3	69.5 - 120	
209 Bi	2157517.80	0.61	2622714.30	82.3	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

Katahdin Analytical Services 4000116

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\089SMPL.D\089SMPL.D#
Date Acquired: Dec 21 2017 08:57 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-007
Misc Info:
Vial Number: 2501
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0407	0.0081	ppb	38.82	100.	
11 B	1,868.	373.6	ppb	3.44	1000.	
23 Na	----	--------	ppb	--------	200000.	>LDR
25 Mg	514,500.	102,900.	ppb	1.27	200000.	
27 Al	75.05	15.01	ppb	0.74	200000.	
28 Si	6,040.	1,208.	ppb	4.03	#VALUE!	
29 Si	4,656.	931.2	ppb	5.37	10000.	
39 K	208,800.	41,760.	ppb	1.03	200000.	
43 Ca	441,300.	88,260.	ppb	0.89	#VALUE!	
44 Ca	415,450.	83,090.	ppb	1.19	200000.	
51 V	0.2658	0.0532	ppb	269.05	1000.	
52 Cr	1.421	0.2842	ppb	14.42	2000.	
53 Cr	39.395	7.879	ppb	2.09	#VALUE!	
55 Mn	1,021.	204.2	ppb	1.83	2000.	
56 Fe	867.5	173.5	ppb	2.37	#VALUE!	
57 Fe	1,156.5	231.3	ppb	5.94	100000.	
59 Co	2.7805	0.5561	ppb	3.03	1000.	
60 Ni	2.7245	0.5449	ppb	16.82	1000.	
63 Cu	180.3	36.06	ppb	1.04	#VALUE!	
65 Cu	2.7085	0.5417	ppb	6.42	2000.	
66 Zn	7.81	1.562	ppb	6.09	2000.	
68 Zn	12.69	2.538	ppb	5.55	#VALUE!	
75 As	5.63	1.126	ppb	39.34	1000.	
82 Se	3.053	0.6106	ppb	14.63	1000.	
88 Sr	4,532.5	906.5	ppb	1.03	2000.	
98 Mo	16.96	3.392	ppb	1.78	1000.	
107 Ag	-0.0065	-0.0013	ppb	725.92	100.	
109 Ag	-0.0047	-0.0009	ppb	296.99	#VALUE!	
111 Cd	-0.0574	-0.0115	ppb	238.07	#VALUE!	
114 Cd	-0.0168	-0.0034	ppb	103.63	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.5245	0.3049	ppb	11.03	1000.	
120 Sn	1.486	0.2972	ppb	14.87	#VALUE!	
121 Sb	0.5205	0.1041	ppb	13.53	#VALUE!	
123 Sb	0.527	0.1054	ppb	4.24	1000.	
135 Ba	166.85	33.37	ppb	1.22	2000.	
137 Ba	165.2	33.04	ppb	0.92	#VALUE!	
182 W	0.872	0.1744	ppb	9.15	1000.	
203 Tl	0.0045	0.0009	ppb	339.27	1000.	
205 Tl	0.0283	0.0057	ppb	11.39	#VALUE!	
208 Pb	0.0424	0.0085	ppb	42.54	2000.	
232 Th	0.0463	0.0093	ppb	6.03	1000.	
238 U	1.4205	0.2841	ppb	3.67	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1745660.50	4.79	2100054.30	83.1	69.5 - 120	
45 Sc	2245446.50	4.63	2287457.00	98.2	69.5 - 120	
89 Y	3417148.30	2.88	3522152.00	97.0	69.5 - 120	
159 Tb	4406614.50	1.85	4597738.00	95.8	69.5 - 120	
209 Bi	2149528.30	1.35	2622714.30	82.0	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

Katahdin Analytical Services 4000117

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\093SMPL.D\093SMPL.D#
Date Acquired: Dec 21 2017 09:14 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-008
Misc Info:
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0146	0.0029	ppb	131.39	100.	
11 B	389.7	77.94	ppb	6.13	1000.	
23 Na	984,000.	196,800.	ppb	0.82	200000.	
25 Mg	79,900.	15,980.	ppb	1.25	200000.	
27 Al	216.6	43.32	ppb	1.65	200000.	
28 Si	5,610.	1,122.	ppb	3.10	#VALUE!	
29 Si	5,340.	1,068.	ppb	1.83	10000.	
39 K	47,480.	9,496.	ppb	1.19	200000.	
43 Ca	132,850.	26,570.	ppb	0.95	#VALUE!	
44 Ca	132,400.	26,480.	ppb	1.33	200000.	
51 V	1.9235	0.3847	ppb	33.72	1000.	
52 Cr	1.5595	0.3119	ppb	18.40	2000.	
53 Cr	41.19	8.238	ppb	22.59	#VALUE!	
55 Mn	264.3	52.86	ppb	1.56	2000.	
56 Fe	382.	76.4	ppb	2.53	#VALUE!	
57 Fe	494.3	98.86	ppb	2.04	100000.	
59 Co	0.757	0.1514	ppb	6.92	1000.	
60 Ni	3.871	0.7742	ppb	7.26	1000.	
63 Cu	56.45	11.29	ppb	0.72	#VALUE!	
65 Cu	29.29	5.858	ppb	2.75	2000.	
66 Zn	12.835	2.567	ppb	6.25	2000.	
68 Zn	13.645	2.729	ppb	2.61	#VALUE!	
75 As	4.6165	0.9233	ppb	18.40	1000.	
82 Se	4.2975	0.8595	ppb	23.42	1000.	
88 Sr	1,058.	211.6	ppb	1.03	2000.	
98 Mo	3.0955	0.6191	ppb	1.76	1000.	
107 Ag	0.0328	0.0066	ppb	51.52	100.	
109 Ag	0.0268	0.0054	ppb	113.73	#VALUE!	
111 Cd	0.68	0.136	ppb	15.53	#VALUE!	
114 Cd	0.534	0.1068	ppb	14.61	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.16	0.232	ppb	3.53	1000.	
120 Sn	1.16	0.232	ppb	2.90	#VALUE!	
121 Sb	6.47	1.294	ppb	2.65	#VALUE!	
123 Sb	6.37	1.274	ppb	0.84	1000.	
135 Ba	88.15	17.63	ppb	1.88	2000.	
137 Ba	87.5	17.5	ppb	1.08	#VALUE!	
182 W	0.1705	0.0341	ppb	27.48	1000.	
203 Tl	0.0591	0.0118	ppb	50.92	1000.	
205 Tl	0.0951	0.019	ppb	10.05	#VALUE!	
208 Pb	2.7285	0.5457	ppb	1.45	2000.	
232 Th	0.231	0.0462	ppb	4.03	1000.	
238 U	1.373	0.2746	ppb	0.91	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1916195.60	2.79	2100054.30	91.2	69.5 - 120	
45 Sc	2283239.30	2.46	2287457.00	99.8	69.5 - 120	
89 Y	3509334.00	2.05	3522152.00	99.6	69.5 - 120	
159 Tb	4592198.00	1.60	4597738.00	99.9	69.5 - 120	
209 Bi	2404843.50	0.88	2622714.30	91.7	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000121

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\094SMPL.D\094SMPL.D#
Date Acquired: Dec 21 2017 09:18 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-009
Misc Info:
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.036	0.0072	ppb	23.35	100.	
11 B	384.5	76.9	ppb	4.82	1000.	
23 Na	944,500.	188,900.	ppb	1.28	200000.	
25 Mg	76,950.	15,390.	ppb	0.71	200000.	
27 Al	65.55	13.11	ppb	0.64	200000.	
28 Si	4,981.5	996.3	ppb	10.79	#VALUE!	
29 Si	4,516.	903.2	ppb	7.52	10000.	
39 K	45,475.	9,095.	ppb	0.95	200000.	
43 Ca	126,850.	25,370.	ppb	1.51	#VALUE!	
44 Ca	125,150.	25,030.	ppb	1.54	200000.	
51 V	1.611	0.3222	ppb	28.44	1000.	
52 Cr	1.0405	0.2081	ppb	12.74	2000.	
53 Cr	51.95	10.39	ppb	8.96	#VALUE!	
55 Mn	201.7	40.34	ppb	0.25	2000.	
56 Fe	129.55	25.91	ppb	7.24	#VALUE!	
57 Fe	247.5	49.5	ppb	9.36	100000.	
59 Co	0.6505	0.1301	ppb	8.03	1000.	
60 Ni	3.6595	0.7319	ppb	9.10	1000.	
63 Cu	52.1	10.42	ppb	0.74	#VALUE!	
65 Cu	27.5	5.5	ppb	1.69	2000.	
66 Zn	11.655	2.331	ppb	2.25	2000.	
68 Zn	12.07	2.414	ppb	10.03	#VALUE!	
75 As	4.32	0.864	ppb	24.20	1000.	
82 Se	3.8515	0.7703	ppb	13.71	1000.	
88 Sr	987.	197.4	ppb	0.85	2000.	
98 Mo	2.951	0.5902	ppb	5.22	1000.	
107 Ag	0.0151	0.003	ppb	204.86	100.	
109 Ag	-0.0106	-0.0021	ppb	269.60	#VALUE!	
111 Cd	0.261	0.0522	ppb	27.21	#VALUE!	
114 Cd	0.466	0.0932	ppb	8.50	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.0535	0.2107	ppb	8.97	1000.	
120 Sn	1.0855	0.2171	ppb	8.00	#VALUE!	
121 Sb	5.99	1.198	ppb	3.54	#VALUE!	
123 Sb	5.995	1.199	ppb	1.96	1000.	
135 Ba	80.9	16.18	ppb	0.67	2000.	
137 Ba	82.55	16.51	ppb	0.55	#VALUE!	
182 W	0.1188	0.0238	ppb	26.06	1000.	
203 Tl	0.041	0.0082	ppb	83.99	1000.	
205 Tl	0.0688	0.0138	ppb	14.83	#VALUE!	
208 Pb	1.4095	0.2819	ppb	3.33	2000.	
232 Th	0.0706	0.0141	ppb	16.92	1000.	
238 U	1.2465	0.2493	ppb	3.83	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1954568.10	1.87	2100054.30	93.1	69.5 - 120	
45 Sc	2337040.30	1.89	2287457.00	102.2	69.5 - 120	
89 Y	3639843.80	0.35	3522152.00	103.3	69.5 - 120	
159 Tb	4802261.50	1.11	4597738.00	104.4	69.5 - 120	
209 Bi	2506036.80	0.89	2622714.30	95.6	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000122

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\095SMPL.D\095SMPL.D#
Date Acquired: Dec 21 2017 09:22 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-010
Misc Info:
Vial Number: 2505
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0463	0.0093	ppb	84.55	100.	
11 B	42.68	8.536	ppb	3.75	1000.	
23 Na	20,365.	4,073.	ppb	0.90	200000.	
25 Mg	7,420.	1,484.	ppb	1.48	200000.	
27 Al	355.65	71.13	ppb	4.14	200000.	
28 Si	6,660.	1,332.	ppb	12.21	#VALUE!	
29 Si	6,245.	1,249.	ppb	8.68	10000.	
39 K	15,440.	3,088.	ppb	1.81	200000.	
43 Ca	20,665.	4,133.	ppb	2.82	#VALUE!	
44 Ca	20,385.	4,077.	ppb	1.85	200000.	
51 V	1.124	0.2248	ppb	53.34	1000.	
52 Cr	1.598	0.3196	ppb	10.00	2000.	
53 Cr	68.35	13.67	ppb	3.89	#VALUE!	
55 Mn	145.7	29.14	ppb	1.43	2000.	
56 Fe	482.4	96.48	ppb	4.46	#VALUE!	
57 Fe	454.	90.8	ppb	5.46	100000.	
59 Co	1.498	0.2996	ppb	7.52	1000.	
60 Ni	3.3755	0.6751	ppb	9.08	1000.	
63 Cu	-1.6225	-0.3245	ppb	5.82	#VALUE!	
65 Cu	1.3705	0.2741	ppb	19.63	2000.	
66 Zn	1.944	0.3888	ppb	5.21	2000.	
68 Zn	0.3372	0.0674	ppb	219.90	#VALUE!	
75 As	0.3052	0.061	ppb	497.71	1000.	
82 Se	1.427	0.2854	ppb	65.77	1000.	
88 Sr	122.85	24.57	ppb	1.80	2000.	
98 Mo	2.6945	0.5389	ppb	7.75	1000.	
107 Ag	0.0266	0.0053	ppb	69.37	100.	
109 Ag	0.0091	0.0018	ppb	243.07	#VALUE!	
111 Cd	-0.1533	-0.0307	ppb	148.27	#VALUE!	
114 Cd	0.0228	0.0046	ppb	89.87	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.105	0.221	ppb	5.76	1000.	
120 Sn	1.286	0.2572	ppb	11.76	#VALUE!	
121 Sb	0.1506	0.0301	ppb	18.51	#VALUE!	
123 Sb	0.1591	0.0318	ppb	24.78	1000.	
135 Ba	54.4	10.88	ppb	2.58	2000.	
137 Ba	53.8	10.76	ppb	0.82	#VALUE!	
182 W	0.2216	0.0443	ppb	12.67	1000.	
203 Tl	0.0665	0.0133	ppb	65.68	1000.	
205 Tl	0.0637	0.0127	ppb	30.27	#VALUE!	
208 Pb	0.1714	0.0343	ppb	23.36	2000.	
232 Th	0.1592	0.0318	ppb	4.87	1000.	
238 U	0.0726	0.0145	ppb	11.21	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1858358.90	3.31	2100054.30	88.5	69.5 - 120	
45 Sc	2131537.50	4.03	2287457.00	93.2	69.5 - 120	
89 Y	3415638.50	2.77	3522152.00	97.0	69.5 - 120	
159 Tb	4618862.50	1.38	4597738.00	100.5	69.5 - 120	
209 Bi	2616206.50	1.16	2622714.30	99.8	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000123

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\096SMPL.D\096SMPL.D#
Date Acquired: Dec 21 2017 09:26 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-011
Misc Info:
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0405	0.0081	ppb	14.19	100.	
11 B	36.15	7.23	ppb	3.73	1000.	
23 Na	21,740.	4,348.	ppb	0.32	200000.	
25 Mg	7,115.	1,423.	ppb	1.12	200000.	
27 Al	48.02	9.604	ppb	3.81	200000.	
28 Si	7,030.	1,406.	ppb	1.53	#VALUE!	
29 Si	6,340.	1,268.	ppb	2.36	10000.	
39 K	15,285.	3,057.	ppb	0.43	200000.	
43 Ca	20,340.	4,068.	ppb	1.22	#VALUE!	
44 Ca	20,130.	4,026.	ppb	0.52	200000.	
51 V	0.6535	0.1307	ppb	91.51	1000.	
52 Cr	1.108	0.2216	ppb	16.07	2000.	
53 Cr	60.5	12.1	ppb	2.05	#VALUE!	
55 Mn	141.6	28.32	ppb	0.61	2000.	
56 Fe	92.7	18.54	ppb	9.57	#VALUE!	
57 Fe	72.4	14.48	ppb	12.02	100000.	
59 Co	1.4815	0.2963	ppb	8.27	1000.	
60 Ni	3.4085	0.6817	ppb	3.26	1000.	
63 Cu	-1.4345	-0.2869	ppb	2.13	#VALUE!	
65 Cu	1.26	0.252	ppb	10.43	2000.	
66 Zn	3.077	0.6154	ppb	20.70	2000.	
68 Zn	1.6935	0.3387	ppb	24.02	#VALUE!	
75 As	1.0965	0.2193	ppb	52.08	1000.	
82 Se	1.271	0.2542	ppb	72.90	1000.	
88 Sr	121.6	24.32	ppb	0.60	2000.	
98 Mo	2.618	0.5236	ppb	4.38	1000.	
107 Ag	0.0256	0.0051	ppb	100.29	100.	
109 Ag	-0.006	-0.0012	ppb	360.79	#VALUE!	
111 Cd	-0.0446	-0.0089	ppb	320.84	#VALUE!	
114 Cd	0.0779	0.0156	ppb	21.41	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.0225	0.2045	ppb	10.13	1000.	
120 Sn	1.201	0.2402	ppb	2.94	#VALUE!	
121 Sb	0.1312	0.0262	ppb	5.92	#VALUE!	
123 Sb	0.1811	0.0362	ppb	24.07	1000.	
135 Ba	52.1	10.42	ppb	1.26	2000.	
137 Ba	51.1	10.22	ppb	1.44	#VALUE!	
182 W	0.1985	0.0397	ppb	12.33	1000.	
203 Tl	0.0393	0.0079	ppb	26.70	1000.	
205 Tl	0.0731	0.0146	ppb	16.90	#VALUE!	
208 Pb	0.0082	0.0016	ppb	473.10	2000.	
232 Th	0.0357	0.0071	ppb	34.54	1000.	
238 U	0.0479	0.0096	ppb	17.44	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1744954.00	3.28	2100054.30	83.1	69.5 - 120	
45 Sc	2000901.40	0.85	2287457.00	87.5	69.5 - 120	
89 Y	3230537.30	0.19	3522152.00	91.7	69.5 - 120	
159 Tb	4485626.00	0.57	4597738.00	97.6	69.5 - 120	
209 Bi	2551224.00	0.85	2622714.30	97.3	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000124

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\097SMPL.D\097SMPL.D#
Date Acquired: Dec 21 2017 09:30 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-012
Misc Info:
Vial Number: 2507
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	-0.0028	-0.0006	ppb	258.60	100.	
11 B	34.79	6.958	ppb	2.40	1000.	
23 Na	33,505.	6,701.	ppb	1.68	200000.	
25 Mg	1,959.	391.8	ppb	1.70	200000.	
27 Al	553.5	110.7	ppb	6.60	200000.	
28 Si	7,375.	1,475.	ppb	4.95	#VALUE!	
29 Si	8,410.	1,682.	ppb	2.53	10000.	
39 K	4,388.5	877.7	ppb	0.53	200000.	
43 Ca	33,925.	6,785.	ppb	3.34	#VALUE!	
44 Ca	34,480.	6,896.	ppb	1.47	200000.	
51 V	7.315	1.463	ppb	10.51	1000.	
52 Cr	9.865	1.973	ppb	3.43	2000.	
53 Cr	75.	15.	ppb	0.72	#VALUE!	
55 Mn	55.4	11.08	ppb	1.80	2000.	
56 Fe	480.8	96.16	ppb	6.31	#VALUE!	
57 Fe	528.5	105.7	ppb	12.61	100000.	
59 Co	0.638	0.1276	ppb	6.49	1000.	
60 Ni	1.2355	0.2471	ppb	2.37	1000.	
63 Cu	8.515	1.703	ppb	5.66	#VALUE!	
65 Cu	10.845	2.169	ppb	7.22	2000.	
66 Zn	1.764	0.3528	ppb	3.42	2000.	
68 Zn	-1.384	-0.2768	ppb	66.04	#VALUE!	
75 As	4.4595	0.8919	ppb	30.89	1000.	
82 Se	1.884	0.3768	ppb	15.93	1000.	
88 Sr	101.65	20.33	ppb	2.67	2000.	
98 Mo	4.7945	0.9589	ppb	2.42	1000.	
107 Ag	0.0431	0.0086	ppb	28.53	100.	
109 Ag	0.0181	0.0036	ppb	112.47	#VALUE!	
111 Cd	0.1752	0.035	ppb	82.25	#VALUE!	
114 Cd	0.0788	0.0158	ppb	30.44	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.2725	0.2545	ppb	6.21	1000.	
120 Sn	1.283	0.2566	ppb	3.86	#VALUE!	
121 Sb	1.1535	0.2307	ppb	1.69	#VALUE!	
123 Sb	1.2715	0.2543	ppb	11.59	1000.	
135 Ba	9.405	1.881	ppb	3.11	2000.	
137 Ba	9.47	1.894	ppb	5.69	#VALUE!	
182 W	0.8915	0.1783	ppb	4.12	1000.	
203 Tl	0.0328	0.0066	ppb	93.83	1000.	
205 Tl	0.0165	0.0033	ppb	97.05	#VALUE!	
208 Pb	0.397	0.0794	ppb	6.36	2000.	
232 Th	0.1416	0.0283	ppb	14.80	1000.	
238 U	0.7975	0.1595	ppb	9.25	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2064639.50	4.75	2100054.30	98.3	69.5 - 120	
45 Sc	2245460.50	2.42	2287457.00	98.2	69.5 - 120	
89 Y	3493822.50	1.70	3522152.00	99.2	69.5 - 120	
159 Tb	4599098.00	1.08	4597738.00	100.0	69.5 - 120	
209 Bi	2596661.30	0.96	2622714.30	99.0	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000125

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL21A.B\098SMPL.D\098SMPL.D#
Date Acquired: Dec 21 2017 09:34 pm
Acq. Method: 1PTCAL16.M
Operator: MD
Sample Name: TK1739-013
Misc Info:
Vial Number: 2508
Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
Last Cal. Update: Dec 21 2017 04:27 pm
Sample Type: Sample
Dilution Factor: 5.00
Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0012	0.0002	ppb	1068.00	100.	
11 B	32.555	6.511	ppb	5.19	1000.	
23 Na	31,295.	6,259.	ppb	0.99	200000.	
25 Mg	1,757.	351.4	ppb	2.02	200000.	
27 Al	212.1	42.42	ppb	2.08	200000.	
28 Si	8,650.	1,730.	ppb	0.73	#VALUE!	
29 Si	8,400.	1,680.	ppb	0.48	10000.	
39 K	4,184.	836.8	ppb	0.59	200000.	
43 Ca	32,835.	6,567.	ppb	1.88	#VALUE!	
44 Ca	34,090.	6,818.	ppb	1.65	200000.	
51 V	7.005	1.401	ppb	6.15	1000.	
52 Cr	8.91	1.782	ppb	0.81	2000.	
53 Cr	58.6	11.72	ppb	4.09	#VALUE!	
55 Mn	44.34	8.868	ppb	0.33	2000.	
56 Fe	62.6	12.52	ppb	13.19	#VALUE!	
57 Fe	83.2	16.64	ppb	10.11	100000.	
59 Co	0.377	0.0754	ppb	16.74	1000.	
60 Ni	0.6945	0.1389	ppb	15.19	1000.	
63 Cu	7.425	1.485	ppb	1.83	#VALUE!	
65 Cu	10.135	2.027	ppb	5.03	2000.	
66 Zn	1.22	0.244	ppb	12.18	2000.	
68 Zn	-2.2595	-0.4519	ppb	37.88	#VALUE!	
75 As	3.509	0.7018	ppb	20.88	1000.	
82 Se	1.4	0.28	ppb	87.79	1000.	
88 Sr	100.7	20.14	ppb	1.20	2000.	
98 Mo	4.8875	0.9775	ppb	3.94	1000.	
107 Ag	0.0479	0.0096	ppb	20.61	100.	
109 Ag	-0.0016	-0.0003	ppb	1990.20	#VALUE!	
111 Cd	-0.0469	-0.0094	ppb	198.14	#VALUE!	
114 Cd	0.031	0.0062	ppb	17.86	1000.	
115 In	----	--------	--- ---		#VALUE!	
118 Sn	1.12	0.224	ppb	8.11	1000.	
120 Sn	1.165	0.233	ppb	12.09	#VALUE!	
121 Sb	1.166	0.2332	ppb	4.61	#VALUE!	
123 Sb	1.236	0.2472	ppb	6.94	1000.	
135 Ba	7.365	1.473	ppb	2.29	2000.	
137 Ba	7.71	1.542	ppb	7.28	#VALUE!	
182 W	0.9555	0.1911	ppb	9.61	1000.	
203 Tl	0.0212	0.0042	ppb	210.44	1000.	
205 Tl	0.0355	0.0071	ppb	23.34	#VALUE!	
208 Pb	0.0125	0.0025	ppb	83.42	2000.	
232 Th	0.0201	0.004	ppb	22.84	1000.	
238 U	0.717	0.1434	ppb	1.14	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1759460.10	1.83	2100054.30	83.8	69.5 - 120	
45 Sc	1993793.90	0.45	2287457.00	87.2	69.5 - 120	
89 Y	3249267.80	0.65	3522152.00	92.3	69.5 - 120	
159 Tb	4463346.00	1.85	4597738.00	97.1	69.5 - 120	
209 Bi	2549806.80	1.51	2622714.30	97.2	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL21A.B\018CALB.D\018CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Katahdin Analytical Services 4000126

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

Quality Control Report

Blank Sample Summary Report

Alkalinity

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG220743	SM2320B	22-DEC-17	N/A	J 0.49 mg/L	5.0 mg/L	4.0

Chloride

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG220302	EPA 300.0	15-DEC-17	N/A	U 1.0 mg/L	2.0 mg/L	1.0

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG220291	EPA 300.0	13-DEC-17	N/A	U 0.025 mg/L	0.050 mg/L	0.025

Sulfate

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG220302	EPA 300.0	15-DEC-17	N/A	U 0.50 mg/L	1.0 mg/L	0.50
MBLANK	WG220781	EPA 300.0	18-DEC-17	N/A	U 0.50 mg/L	1.0 mg/L	0.50

Quality Control Report

Laboratory Control Sample Summary Report

Alkalinity

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG220743-2	LCS	WG220743	22-DEC-17	N/A	mg/L	120	120	104	80-120	

Chloride

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG220302-2	LCS	WG220302	14-DEC-17	N/A	mg/L	3.75	3.97	106.	90-110	

Nitrate as N

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG220291-2	LCS	WG220291	13-DEC-17	N/A	mg/L	0.845	0.841	99.5	90-110	

Sulfate

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG220302-2	LCS	WG220302	14-DEC-17	N/A	mg/L	3.75	3.70	98.7	90-110	
WG220781-2	LCS	WG220781	18-DEC-17	N/A	mg/L	3.75	3.65	97.3	90-110	

Quality Control Report

Matrix Spike Sample Summary Report

Chloride

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG220302-3	MS	TK1739-2	WG220302	15-DEC-17	mg/L	75	120	200	107.	90 - 110

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Case Narrative
Katahdin Analytical Services
Lot Number: SL15079

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), applicable Shealy standard operating procedures (SOPs), the 2003 NELAC standard, and Shealy policies. Additionally, the DoD QSM version 5.1 has been followed for these samples. Any exceptions to the QAMP, SOPs, NELAC standards, the DoD QSM, or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

PFAS

Samples SL15079-002 through SL15079-005 required re-extraction outside the holding time for Perfluorooctanesulfonate (PFOS) due to LCS recovery above control limits at 192%. Both extraction results are reported.

PFAS by LC/MS/MS - MB

Sample ID: SQ60410-001
Batch: 60410
Analytical Method: 537.1 Modified-ID
Matrix: Aqueous
Prep Method: 537 MOD
Prep Date: 12/22/2017 923

Parameter	Result	Q	Dil	LOQ	LOD	DL	Units	Analysis Date
EtFOSAA	2.0	U	1	4.0	2.0	1.0	ng/L	12/22/2017 1546
MeFOSAA	2.0	U	1	4.0	2.0	1.0	ng/L	12/22/2017 1546
PFBS	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFHxS	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFDA	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFDoA	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFHpA	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFHxA	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFNA	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFOA	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFTeDA	2.0	U	1	4.0	2.0	1.0	ng/L	12/22/2017 1546
PFTrDA	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFUdA	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546
PFOS	1.0	U	1	2.0	1.0	0.50	ng/L	12/22/2017 1546

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFDoA		104	50-150
13C2_PFTeDA		97	50-150
13C3_PFBS		110	50-150
13C3_PFHxS		107	50-150
13C4_PFHpA		115	50-150
13C5_PFHxA		120	50-150
13C6_PFDA		108	50-150
13C7_PFUdA		102	50-150
13C8_PFOA		112	50-150
13C8_PFOS		104	50-150
13C9_PFNA		111	50-150
d5-EtFOSAA		111	50-150
d3-MeFOSAA		103	50-150

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
U = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: SQ60410-002
Batch: 60410
Analytical Method: 537.1 Modified-ID

Matrix: Aqueous
Prep Method: 537 MOD
Prep Date: 12/22/2017 923

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
EtFOSAA	20	19		1	94	70-130	12/22/2017 1559
MeFOSAA	20	20		1	102	70-130	12/22/2017 1559
PFBS	18	17		1	98	70-130	12/22/2017 1559
PFHxS	18	18		1	102	70-130	12/22/2017 1559
PFDA	20	20		1	101	70-130	12/22/2017 1559
PFDoA	20	21		1	106	70-130	12/22/2017 1559
PFHpA	20	20		1	101	70-130	12/22/2017 1559
PFHxA	20	22		1	110	70-130	12/22/2017 1559
PFNA	20	20		1	98	70-130	12/22/2017 1559
PFOA	20	21		1	105	70-130	12/22/2017 1559
PFTeDA	20	19		1	96	70-130	12/22/2017 1559
PFTrDA	20	20		1	101	70-130	12/22/2017 1559
PFUdA	20	18		1	91	70-130	12/22/2017 1559
PFOS	19	36	N	1	192	70-130	12/22/2017 1559

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFDoA		101	50-150
13C2_PFTeDA		71	50-150
13C3_PFBS		107	50-150
13C3_PFHxS		107	50-150
13C4_PFHpA		110	50-150
13C5_PFHxA		111	50-150
13C6_PFDA		105	50-150
13C7_PFUdA		106	50-150
13C8_PFOA		109	50-150
13C8_PFOS		102	50-150
13C9_PFNA		111	50-150
d5-EtFOSAA		103	50-150
d3-MeFOSAA		100	50-150

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
U = Not detected at or above the LOQ

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: SQ60775-001
Batch: 60775
Analytical Method: 537.1 Modified-ID
Matrix: Aqueous
Prep Method: 537 MOD
Prep Date: 12/29/2017 1029

Parameter	Result	Q	Dil	LOQ	LOD	DL	Units	Analysis Date
EtFOSAA	2.0	U	1	4.0	2.0	1.0	ng/L	12/29/2017 1857
MeFOSAA	2.0	U	1	4.0	2.0	1.0	ng/L	12/29/2017 1857
PFBS	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFHxS	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFDA	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFDoA	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFHpA	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFHxA	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFNA	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFOA	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFTeDA	2.0	U	1	4.0	2.0	1.0	ng/L	12/29/2017 1857
PFTrDA	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFUdA	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857
PFOS	1.0	U	1	2.0	1.0	0.50	ng/L	12/29/2017 1857

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFDoA		109	50-150
13C2_PFTeDA		113	50-150
13C3_PFBS		109	50-150
13C3_PFHxS		111	50-150
13C4_PFHpA		114	50-150
13C5_PFHxA		107	50-150
13C6_PFDA		114	50-150
13C7_PFUdA		110	50-150
13C8_PFOA		110	50-150
13C8_PFOS		107	50-150
13C9_PFNA		107	50-150
d5-EtFOSAA		112	50-150
d3-MeFOSAA		115	50-150

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
U = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: SQ60775-002
Batch: 60775
Analytical Method: 537.1 Modified-ID
Matrix: Aqueous
Prep Method: 537 MOD
Prep Date: 12/29/2017 1029

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
EtFOSAA	20	21		1	104	70-130	12/29/2017 1911
MeFOSAA	20	20		1	100	70-130	12/29/2017 1911
PFBS	18	19		1	107	70-130	12/29/2017 1911
PFHxS	18	19		1	102	70-130	12/29/2017 1911
PFDA	20	20		1	102	70-130	12/29/2017 1911
PFDoA	20	24		1	118	70-130	12/29/2017 1911
PFHpA	20	20		1	102	70-130	12/29/2017 1911
PFHxA	20	21		1	105	70-130	12/29/2017 1911
PFNA	20	21		1	106	70-130	12/29/2017 1911
PFOA	20	22		1	108	70-130	12/29/2017 1911
PFTeDA	20	20		1	102	70-130	12/29/2017 1911
PFTrDA	20	24		1	119	70-130	12/29/2017 1911
PFUdA	20	21		1	104	70-130	12/29/2017 1911
PFOS	19	20		1	106	70-130	12/29/2017 1911

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFDoA		95	50-150
13C2_PFTeDA		77	50-150
13C3_PFBS		102	50-150
13C3_PFHxS		96	50-150
13C4_PFHpA		105	50-150
13C5_PFHxA		105	50-150
13C6_PFDA		106	50-150
13C7_PFUdA		100	50-150
13C8_PFOA		103	50-150
13C8_PFOS		100	50-150
13C9_PFNA		102	50-150
d5-EtFOSAA		102	50-150
d3-MeFOSAA		110	50-150

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
U = Not detected at or above the LOQ
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

FORM 2
ISOTOPE DILUTION STANDARD RECOVERY

Lab Name: Shealy Environmental Services, Inc. Lot No.: SL15079

Project No.: TK1739

AnalyticalMethod: 537.1 Modified-ID Matrix: Water

CLIENT SAMPLE ID	IDS1	IDS2	IDS3	IDS4	IDS5	IDS6	IDS7	IDS8	IDS9
G32-MW303B-121217	105	81	109	111	115	111	112	112	116
GI-MW402-121217	106	106	110	109	122	117	110	112	115
GI-MW402-121217RE	102	105	102	106	102	108	105	106	104
GI-MW403-121217	104	102	109	108	112	114	110	109	113
GI-MW403-121217RE	116	111	117	112	112	118	118	123	116
GI-MW401-121217	105	93	104	106	112	111	108	105	112
GI-MW401-121217RE	98	89	104	104	106	107	104	104	105
FRB121217	106	100	108	109	115	114	112	115	113
FRB121217RE	106	103	107	110	108	110	108	109	105
SQ60410-001	104	97	110	107	115	120	108	102	112
SQ60410-002	101	71	107	107	110	111	105	106	109
SQ60775-001	109	113	109	111	114	107	114	110	110
SQ60775-002	95	77	102	96	105	105	106	100	103

	QC LIMITS
IDS1 = 13C2_PFDoA	50-150
IDS2 = 13C2_PFTeDA	50-150
IDS3 = 13C3_PFBS	50-150
IDS4 = 13C3_PFHxS	50-150
IDS5 = 13C4_PFHpA	50-150
IDS6 = 13C5_PFHxA	50-150
IDS7 = 13C6_PFDA	50-150
IDS8 = 13C7_PFUdA	50-150
IDS9 = 13C8_PFOA	50-150

* Recoveries outside QC limits
D IDS Diluted Out

FORM 2
ISOTOPE DILUTION STANDARD RECOVERY

Lab Name: Shealy Environmental Services, Inc. Lot No.: SL15079

Project No.: TK1739

AnalyticalMethod: 537.1 Modified-ID Matrix: Water

CLIENT SAMPLE ID	IDS10	IDS11	IDS12	IDS13	IDS14	IDS15	IDS16	IDS17	TOT OUT
G32-MW303B-121217	105	111	106	107					0
GI-MW402-121217	108	111	111	109					0
GI-MW402-121217RE	98	106	109	115					0
GI-MW403-121217	105	114	110	108					0
GI-MW403-121217RE	113	119	120	127					0
GI-MW401-121217	102	109	112	112					0
GI-MW401-121217RE	100	104	107	109					0
FRB121217	110	116	109	109					0
FRB121217RE	107	110	114	118					0
SQ60410-001	104	111	111	103					0
SQ60410-002	102	111	103	100					0
SQ60775-001	107	107	112	115					0
SQ60775-002	100	102	102	110					0

	QC LIMITS
IDS10 = 13C8_PFOS	50-150
IDS11 = 13C9_PFNA	50-150
IDS12 = d5-EtFOSAA	50-150
IDS13 = d3-MeFOSAA	50-150

* Recoveries outside QC limits
D IDS Diluted Out

CLIENT SAMPLE ID

SQ60410-001

FORM 4
METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc.

Lot No.: SL15079

Project No.: TK1739

Lab Sample ID: SQ60410-001

Analytical Method: 537.1 Modified-ID

Matrix: Water

Instrument ID: Sceix 4500_LSMSMS#1

Lab File ID:

Extraction Type: 537 MOD

Date Extracted: 12/22/2017

LC Column: Gemini C18 ID: 2.00 (mm)

Date Analyzed: 12/22/2017

Time Analyzed: 15:46

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
G32-MW303B-121217	SL15079-001		16:13
GI-MW402-121217	SL15079-002		16:27
GI-MW403-121217	SL15079-003		16:40
GI-MW401-121217	SL15079-004		16:54
FRB121217	SL15079-005		17:07
SQ60410-002	SQ60410-002		15:59

CLIENT SAMPLE ID

SQ60775-001

FORM 4
METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc.

Lot No.: SL15079

Project No.: TK1739

Lab Sample ID: SQ60775-001

Analytical Method: 537.1 Modified-ID

Matrix: Water

Instrument ID: Sceix 4500_LSMSMS#1

Lab File ID:

Extraction Type: 537 MOD

Date Extracted: 12/29/2017

LC Column: Gemini C18 ID: 2.00 (mm)

Date Analyzed: 12/29/2017

Time Analyzed: 18:57

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
GI-MW402-121217RE	SL15079-002		20:19
GI-MW403-121217RE	SL15079-003		20:32
GI-MW401-121217RE	SL15079-004		20:46
FRB121217RE	SL15079-005		20:59
SQ60775-002	SQ60775-002		19:11

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	NEWPORT_NS	TK1739	SITE 00017	SITE 00017	GI-MW403	Monitoring well	370649.98	165116.84	8005	WE22	TETRA TECH, INC.	GI-MW403-121217	Ground water	Normal (Regular)	12-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1739	SITE 00017	SITE 00017	GI-MW402	Monitoring well	370826.67	164872.34	N6247016D9008	WE22	TETRA TECH, INC.	GI-MW402-121217	Ground water	Normal (Regular)	12-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1739	SITE 00017	SITE 00017	GI-MW403	Monitoring well	370649.98	165116.84	N6247016D9008	WE22	TETRA TECH, INC.	GI-MW403-121217	Ground water	Normal (Regular)	12-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1739	SITE 00017	SITE 00017	GI-MW401	Monitoring well	370729.54	164895.43	8005	WE22	TETRA TECH, INC.	GI-MW401-121217	Ground water	Normal (Regular)	12-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1739							N6247016D9008	WE22	TETRA TECH, INC.	FRB121217	Water for QC samples	Field Reagent Blank	12-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1739	SITE 00017	SITE 00017	G32-MW303B	Monitoring well	370851.5242	165079.0793	N6247016D9008	WE22	TETRA TECH, INC.	G32-MW303B-121217	Ground water	Normal (Regular)	12-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1739	SITE 00017	SITE 00017	GI-MW401	Monitoring well	370729.54	164895.43	N6247016D9008	WE22	TETRA TECH, INC.	GI-MW401-121217	Ground water	Normal (Regular)	12-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1739							8005	WE22	TETRA TECH, INC.	FRB121217	Water for QC samples	Field Reagent Blank	12-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1739	SITE 00017	SITE 00017	G32-MW303B	Monitoring well	370851.5242	165079.0793	8005	WE22	TETRA TECH, INC.	G32-MW303B-121217	Ground water	Normal (Regular)	12-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1739	SITE 00017	SITE 00017	GI-MW402	Monitoring well	370826.67	164872.34	8005	WE22	TETRA TECH, INC.	GI-MW402-121217	Ground water	Normal (Regular)	12-Dec-17	537	Perfluoroalkyl Compounds