















































Groundwater Sample Results, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG SC38733


*Naval Station Newport
Newport, Rhode Island*

August 2019

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dl4","41.3","g/l","-99","NA","SUR","82","-99","NA","YES","50.5","990","1","-99",
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 7", "Fluorene", "27.1", "◆g/l", "0.618", "MDL", "TARGET", "54", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",
 "1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "90-12-0", "1-
 Methyl naphthalene", "22.7", "◆g/l", "0.740", "MDL", "TARGET", "45", "5.05", "RDL", "YES", "50.5", "990", "1", "1.0
 1",
 "1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "91-20-
 3", "Naphthalene", "21.5", "◆g/l", "0.692", "MDL", "TARGET", "43", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",
 "1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "91-57-6", "2-
 Methyl naphthalene", "29.7", "◆g/l", "0.580", "MDL", "TARGET", "59", "5.05", "RDL", "YES", "50.5", "990", "1", "1.0
 1",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "1146-65-2", "Naphthalene-
 d8", "40.0", "◆g/ml", "-99", "NA", "ISTD", "146", "-99", "NA", "YES", "40.0", "990", "1", "-99",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "120-12-
 7", "Anthracene", "30.4", "◆g/l", "0.614", "MDL", "TARGET", "60", "12", "5.05", "RDL", "YES", "50.5", "990", "1", "1.0
 1",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "129-00-
 0", "Pyrene", "29.6", "◆g/l", "0.616", "MDL", "TARGET", "59", "3", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "15067-26-2", "Acenaphthene-
 d10", "40.0", "◆g/ml", "-99", "NA", "ISTD", "141", "-99", "NA", "YES", "40.0", "990", "1", "-99",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "1517-22-2", "Phenanthrene-
 d10", "40.0", "◆g/ml", "-99", "NA", "ISTD", "123", "-99", "NA", "YES", "40.0", "990", "1", "-99",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "1520-96-3", "Perylene-
 d12", "40.0", "◆g/ml", "-99", "NA", "ISTD", "94", "-99", "NA", "YES", "40.0", "990", "1", "-99",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "1718-51-0", "Terphenyl-
 dl4", "47.1", "◆g/l", "-99", "NA", "SUR", "93", "-99", "NA", "YES", "50.5", "990", "1", "-99",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "1719-03-5", "Chrysene-
 d12", "40.0", "◆g/ml", "-99", "NA", "ISTD", "132", "-99", "NA", "YES", "40.0", "990", "1", "-99",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "191-24-2", "Benzo (g,h,i)
 perylene", "25.5", "◆g/l", "0.535", "MDL", "TARGET", "50", "5", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "193-39-5", "Indeno (1,2,3-cd)
 pyrene", "29.0", "◆g/l", "0.586", "MDL", "TARGET", "57", "8", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "205-99-2", "Benzo (b)
 fluoranthene", "46.5", "◆g/l", "0.441", "MDL", "TARGET", "92", "12", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "206-44-
 0", "Fluoranthene", "29.1", "◆g/l", "0.644", "MDL", "TARGET", "58", "2", "5.05", "RDL", "YES", "50.5", "990", "1", "1.
 01",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "207-08-9", "Benzo (k)
 fluoranthene", "45.6", "◆g/l", "QR2", "0.485", "MDL", "TARGET", "90", "30", "5.05", "RDL", "YES", "50.5", "990", "1",
 "1.01",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "208-96-
 8", "Acenaphthylene", "28.2", "◆g/l", "0.690", "MDL", "TARGET", "56", "11", "5.05", "RDL", "YES", "50.5", "990", "1",
 "1.01",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "218-01-
 9", "Chrysene", "33.8", "◆g/l", "0.537", "MDL", "TARGET", "67", "11", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",
 "1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "321-60-8", "2-
 Fluorobiphenyl", "33.5", "◆g/l", "-99", "NA", "SUR", "66", "-99", "NA", "YES", "50.5", "990", "1", "-99",

"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","4165-60-0","Nitrobenzene-d5","35.1","g/l","-99","NA","SUR","70","-99","NA","YES","50.5","990","1","-99",
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","50-32-8","Benzo (a)
pyrene","37.4","g/l","0.568","MDL","TARGET","74","9","5.05","RDL","YES","50.5","990","1","1.01",
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","53-70-3","Dibenzo (a,h)
anthracene","29.9","g/l","0.455","MDL","TARGET","59","4","5.05","RDL","YES","50.5","990","1","1.01",
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","56-55-3","Benzo (a)
anthracene","32.4","g/l","0.541","MDL","TARGET","64","6","5.05","RDL","YES","50.5","990","1","1.01",
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","83-32-
9","Acenaphthene","25.3","g/l","0.698","MDL","TARGET","50","3","5.05","RDL","YES","50.5","990","1","1
.01",
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","85-01-
8","Phenanthrene","28.3","g/l","QC2","0.592","MDL","TARGET","56","6","5.05","RDL","YES","50.5","990",
"1","1.01",
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","86-73-
7","Fluorene","28.7","g/l","0.618","MDL","TARGET","57","5","5.05","RDL","YES","50.5","990","1","1.01",
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","90-12-0","1-
Methylnaphthalene","24.9","g/l","0.740","MDL","TARGET","49","9","5.05","RDL","YES","50.5","990","1",
1.01",
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","91-20-
3","Naphthalene","22.7","g/l","0.692","MDL","TARGET","45","5","5.05","RDL","YES","50.5","990","1","1.0
1",
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","91-57-6","2-
Methylnaphthalene","29.9","g/l","0.580","MDL","TARGET","59","0.7","5.05","RDL","YES","50.5","990","1",
1.01",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1024-57-3","Heptachlor
epoxide","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1024-57-3","Heptachlor epoxide
[2C]","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1031-07-8","Endosulfan
sulfate","0.020","g/l","U","0.020","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1031-07-8","Endosulfan sulfate
[2C]","0.020","g/l","U","0.017","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.212","g/l","-99","NA","SUR","105","-99","NA","YES","0.202","990","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr) [2C]","0.214","g/l","-99","NA","SUR","106","-99","NA","YES","0.202","990","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","15972-60-
8","Alachlor","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","15972-60-8","Alachlor
[2C]","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.158","g/l","-99","NA","SUR","78","-99","NA","YES","0.202","990","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)
[2C]","0.143","g/l","-99","NA","SUR","71","-99","NA","YES","0.202","990","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","309-00-
2","Aldrin","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","309-00-2","Aldrin
[2C]","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-84-6","alpha-
BHC","0.020","g/l","U","0.012","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-84-6","alpha-BHC
[2C]","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-85-7","beta-
BHC","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-85-7","beta-BHC
[2C]","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",

"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-86-8","delta-BHC","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-86-8","delta-BHC [2C]","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","33213-65-9","Endosulfan II","0.020","g/l","U","0.020","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","33213-65-9","Endosulfan II [2C]","0.020","g/l","U","0.016","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","50-29-3","4,4'-DDT (p,p')","0.030","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.030",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","50-29-3","4,4'-DDT (p,p') [2C]","0.030","g/l","U","0.022","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.030",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","5103-71-9","alpha-Chlordane","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","5103-71-9","alpha-Chlordane [2C]","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","5103-74-2","Chlordane (gamma) (trans)","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","5103-74-2","Chlordane (gamma)(trans) [2C]","0.020","g/l","U","0.014","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","53494-70-5","Endrin ketone","0.020","g/l","U","0.017","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","53494-70-5","Endrin ketone [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","57-74-9","Chlordane","0.066","g/l","U","0.052","MDL","TARGET","0.066","RDL","YES","-99","990","10","0.066",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","57-74-9","Chlordane [2C]","0.066","g/l","U","0.062","MDL","TARGET","0.066","RDL","YES","-99","990","10","0.066",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","58-89-9","gamma-BHC (Lindane)","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","60-57-1","Dieldrin","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","60-57-1","Dieldrin [2C]","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-20-8","Endrin","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-20-8","Endrin [2C]","0.020","g/l","U","0.020","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-43-5","Methoxychlor","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-43-5","Methoxychlor [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-54-8","4,4'-DDD (p,p')","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-54-8","4,4'-DDD (p,p') [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-55-9","4,4'-DDE (p,p')","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-55-9","4,4'-DDE (p,p') [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","7421-93-4","Endrin aldehyde","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","7421-93-4","Endrin aldehyde

[2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","76-44-8","Heptachlor","0.020","g/l","U","0.020","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","76-44-8","Heptachlor",
[2C]","0.020","g/l","U","0.020","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","8001-35-2","Toxaphene","0.505","g/l","U","0.331","MDL","TARGET","0.505","RDL","YES","-99","990","10","0.505",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","8001-35-2","Toxaphene",
[2C]","0.505","g/l","U","0.290","MDL","TARGET","0.505","RDL","YES","-99","990","10","0.505",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","113","-99","NA","YES","10.0","990","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)",
[2C]","0.020","g/ml","-99","NA","ISTD","109","-99","NA","YES","10.0","990","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","959-98-8","Endosulfan I","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","959-98-8","Endosulfan I",
[2C]","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1024-57-3","Heptachlor epoxide","0.388","g/l","0.016","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1024-57-3","Heptachlor epoxide",
[2C]","0.383","g/l","0.015","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1031-07-8","Endosulfan sulfate","0.415","g/l","0.020","MDL","TARGET","81","0.041","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1031-07-8","Endosulfan sulfate",
[2C]","0.367","g/l","0.017","MDL","TARGET","72","0.041","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.205","g/l","-99","NA","SUR","101","-99","NA","YES","0.204","980","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)",
[2C]","0.206","g/l","-99","NA","SUR","101","-99","NA","YES","0.204","980","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","15972-60-8","Alachlor","0.468","g/l","0.019","MDL","TARGET","92","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","15972-60-8","Alachlor",
[2C]","0.387","g/l","0.018","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.180","g/l","-99","NA","SUR","88","-99","NA","YES","0.204","980","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)",
[2C]","0.145","g/l","-99","NA","SUR","71","-99","NA","YES","0.204","980","10","-99",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","309-00-2","Aldrin","0.372","g/l","0.016","MDL","TARGET","73","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","309-00-2","Aldrin",
[2C]","0.392","g/l","0.019","MDL","TARGET","77","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-84-6","alpha-BHC","0.377","g/l","0.012","MDL","TARGET","74","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-84-6","alpha-BHC",
[2C]","0.352","g/l","0.018","MDL","TARGET","69","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-85-7","beta-BHC","0.388","g/l","0.015","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-85-7","beta-BHC",
[2C]","0.392","g/l","0.019","MDL","TARGET","77","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-86-8","delta-BHC","0.381","g/l","0.016","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","319-86-8","delta-BHC",
[2C]","0.360","g/l","0.020","MDL","TARGET","71","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","33213-65-9","Endosulfan

II","0.410","◆g/l","0.020","MDL","TARGET","80","0.041","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","33213-65-9","Endosulfan II
[2C]","0.371","◆g/l","0.016","MDL","TARGET","73","0.041","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","50-29-3","4,4'-DDT
(p,p')","0.398","◆g/l","0.018","MDL","TARGET","78","0.041","RDL","YES","0.510","980","10","0.031",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","50-29-3","4,4'-DDT (p,p')
[2C]","0.334","◆g/l","0.022","MDL","TARGET","65","0.041","RDL","YES","0.510","980","10","0.031",
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Chlordane","0.393","◆g/l","0.016","MDL","TARGET","77","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","5103-71-9","alpha-Chlordane
[2C]","0.390","◆g/l","0.017","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.385","◆g/l","0.016","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","5103-74-2","Chlordane (gamma)(trans)
[2C]","0.381","◆g/l","0.014","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","53494-70-5","Endrin
ketone","0.407","◆g/l","0.018","MDL","TARGET","80","0.041","RDL","YES","0.510","980","10","0.020",
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[2C]","0.343","◆g/l","0.018","MDL","TARGET","67","0.041","RDL","YES","0.510","980","10","0.020",
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(Lindane)","0.390","◆g/l","0.018","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","58-89-9","gamma-BHC (Lindane)
[2C]","0.400","◆g/l","0.018","MDL","TARGET","78","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","60-57-
1","Dieldrin","0.389","◆g/l","0.017","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","60-57-1","Dieldrin
[2C]","0.376","◆g/l","0.019","MDL","TARGET","74","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-20-
8","Endrin","0.436","◆g/l","0.020","MDL","TARGET","85","0.041","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-20-8","Endrin
[2C]","0.423","◆g/l","0.020","MDL","TARGET","83","0.041","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-43-
5","Methoxychlor","0.447","◆g/l","0.019","MDL","TARGET","88","0.041","RDL","YES","0.510","980","10",
0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-43-5","Methoxychlor
[2C]","0.355","◆g/l","0.019","MDL","TARGET","70","0.041","RDL","YES","0.510","980","10","0.020",
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(p,p')","0.394","◆g/l","0.019","MDL","TARGET","77","0.041","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-54-8","4,4'-DDD (p,p')
[2C]","0.379","◆g/l","0.018","MDL","TARGET","74","0.041","RDL","YES","0.510","980","10","0.020",
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(p,p')","0.385","◆g/l","0.018","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",
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aldehyde","0.445","◆g/l","0.020","MDL","TARGET","87","0.041","RDL","YES","0.510","980","10","0.020",
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[2C]","0.400","◆g/l","0.018","MDL","TARGET","78","0.041","RDL","YES","0.510","980","10","0.020",
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8","Heptachlor","0.376","◆g/l","0.020","MDL","TARGET","74","0.020","RDL","YES","0.510","980","10",
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[2C]","0.376","◆g/l","0.020","MDL","TARGET","74","0.020","RDL","YES","0.510","980","10","0.020",
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","◆g/ml","-99","NA","ISTD","112","-99","NA","YES","10.0","980","10","-99",
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



























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 I","0.396","◆g/l","0.017","MDL","TARGET","78","0.020","RDL","YES","0.510","980","10","0.020",
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 [2C]","0.396","◆g/l","0.016","MDL","TARGET","78","0.020","RDL","YES","0.510","980","10","0.020",
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 epoxide","0.384","◆g/l","0.015","MDL","TARGET","76","1","0.020","RDL","YES","0.505","990","10","0.020"
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 [2C]","0.378","◆g/l","0.015","MDL","TARGET","75","1","0.020","RDL","YES","0.505","990","10","0.020",
 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","1031-07-8","Endosulfan
 sulfate","0.401","◆g/l","0.020","MDL","TARGET","79","3","0.040","RDL","YES","0.505","990","10","0.020",
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 [2C]","0.357","◆g/l","0.017","MDL","TARGET","71","3","0.040","RDL","YES","0.505","990","10","0.020",
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 (Sr)","0.204","◆g/l","-99","NA","SUR","101","-99","NA","YES","0.202","990","10","-99",
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 (Sr) [2C]","0.205","◆g/l","-99","NA","SUR","101","-99","NA","YES","0.202","990","10","-99",
 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","15972-60-
 8","Alachlor","0.460","◆g/l","0.019","MDL","TARGET","91","2","0.020","RDL","YES","0.505","990","10","0.
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 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","15972-60-8","Alachlor
 [2C]","0.387","◆g/l","0.018","MDL","TARGET","77","0.1","0.020","RDL","YES","0.505","990","10","0.020",
 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","2051-24-3","Decachlorobiphenyl
 (Sr)","0.172","◆g/l","-99","NA","SUR","85","-99","NA","YES","0.202","990","10","-99",
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 [2C]","0.144","◆g/l","-99","NA","SUR","71","-99","NA","YES","0.202","990","10","-99",
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 2","Aldrin","0.369","◆g/l","0.016","MDL","TARGET","73","0.7","0.020","RDL","YES","0.505","990","10","0.0
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 [2C]","0.390","◆g/l","0.019","MDL","TARGET","77","0.6","0.020","RDL","YES","0.505","990","10","0.020",
 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-84-6","alpha-
 BHC","0.376","◆g/l","0.012","MDL","TARGET","74","0.3","0.020","RDL","YES","0.505","990","10","0.020",
 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-84-6","alpha-BHC
 [2C]","0.351","◆g/l","0.018","MDL","TARGET","69","0.5","0.020","RDL","YES","0.505","990","10","0.020",
 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-85-7","beta-
 BHC","0.385","◆g/l","0.015","MDL","TARGET","76","0.8","0.020","RDL","YES","0.505","990","10","0.020",
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 [2C]","0.386","◆g/l","0.019","MDL","TARGET","76","2","0.020","RDL","YES","0.505","990","10","0.020",
 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-86-8","delta-
 BHC","0.380","◆g/l","0.016","MDL","TARGET","75","0.3","0.020","RDL","YES","0.505","990","10","0.020",
 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-86-8","delta-BHC
 [2C]","0.356","◆g/l","0.019","MDL","TARGET","70","1","0.020","RDL","YES","0.505","990","10","0.020",
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 II","0.397","◆g/l","0.020","MDL","TARGET","79","3","0.040","RDL","YES","0.505","990","10","0.020",
 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","33213-65-9","Endosulfan II
 [2C]","0.363","◆g/l","0.016","MDL","TARGET","72","2","0.040","RDL","YES","0.505","990","10","0.020",
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 (p,p')","0.390","◆g/l","0.018","MDL","TARGET","77","2","0.040","RDL","YES","0.505","990","10","0.030",
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 "1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","5103-71-9","alpha-
 Chlordane","0.391","◆g/l","0.016","MDL","TARGET","77","0.4","0.020","RDL","YES","0.505","990","10","0.
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




















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"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","5103-74-2","Chlordane (gamma)(trans) [2C]","0.377","g/l","0.014","MDL","TARGET","75","1","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","53494-70-5","Endrin ketone","0.400","g/l","0.017","MDL","TARGET","79","2","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","53494-70-5","Endrin ketone [2C]","0.336","g/l","0.018","MDL","TARGET","66","2","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","58-89-9","gamma-BHC (Lindane)","0.388","g/l","0.017","MDL","TARGET","77","0.5","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.397","g/l","0.018","MDL","TARGET","79","0.6","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","60-57-1","Dieldrin","0.383","g/l","0.017","MDL","TARGET","76","2","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","60-57-1","Dieldrin [2C]","0.375","g/l","0.019","MDL","TARGET","74","0.3","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-20-8","Endrin","0.418","g/l","0.019","MDL","TARGET","83","4","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-20-8","Endrin [2C]","0.422","g/l","0.020","MDL","TARGET","84","0.2","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-43-5","Methoxychlor","0.421","g/l","0.018","MDL","TARGET","83","6","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-43-5","Methoxychlor [2C]","0.350","g/l","0.018","MDL","TARGET","69","2","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-54-8","4,4'-DDD (p,p')","0.384","g/l","0.019","MDL","TARGET","76","3","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-54-8","4,4'-DDD (p,p') [2C]","0.368","g/l","0.018","MDL","TARGET","73","3","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-55-9","4,4'-DDE (p,p')","0.381","g/l","0.018","MDL","TARGET","75","1","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-55-9","4,4'-DDE (p,p') [2C]","0.382","g/l","0.018","MDL","TARGET","76","0.7","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","7421-93-4","Endrin aldehyde","0.435","g/l","0.019","MDL","TARGET","86","2","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","7421-93-4","Endrin aldehyde [2C]","0.392","g/l","0.018","MDL","TARGET","78","2","0.040","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","76-44-8","Heptachlor","0.374","g/l","0.020","MDL","TARGET","74","0.7","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","76-44-8","Heptachlor [2C]","0.376","g/l","0.020","MDL","TARGET","75","0.05","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","113","-99","NA","YES","10.0","990","10","-99",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.020","g/ml","-99","NA","ISTD","109","-99","NA","YES","10.0","990","10","-99",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","959-98-8","Endosulfan I","0.392","g/l","0.016","MDL","TARGET","78","1","0.020","RDL","YES","0.505","990","10","0.020",
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","959-98-8","Endosulfan I [2C]","0.389","g/l","0.016","MDL","TARGET","77","2","0.020","RDL","YES","0.505","990","10","0.020",
"1715035-BLK1","SM2320B (97, 11)","RES","1715035-BLK1","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",

"1715035-BLK2","SM2320B (97, 11)","RES","1715035-BLK2","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",
"1715035-BLK3","SM2320B (97, 11)","RES","1715035-BLK3","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",
"1715035-BLK4","SM2320B (97, 11)","RES","1715035-BLK4","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",
"1715035-BS1","SM2320B (97, 11)","RES","1715035-BS1","ESAI","NA","Total Alkalinity","52.6","mg/l CaCO3","1.05","MDL","TARGET","105","4.00","RDL","YES","50.0","50","50","3.00",
"1715035-BS2","SM2320B (97, 11)","RES","1715035-BS2","ESAI","NA","Total Alkalinity","53.4","mg/l CaCO3","1.05","MDL","TARGET","107","4.00","RDL","YES","50.0","50","50","3.00",
"1715035-BS3","SM2320B (97, 11)","RES","1715035-BS3","ESAI","NA","Total Alkalinity","52.1","mg/l CaCO3","1.05","MDL","TARGET","104","4.00","RDL","YES","50.0","50","50","3.00",
"1715035-BS4","SM2320B (97, 11)","RES","1715035-BS4","ESAI","NA","Total Alkalinity","52.9","mg/l CaCO3","1.05","MDL","TARGET","106","4.00","RDL","YES","50.0","50","50","3.00",
"1715035-SRM1","SM2320B (97, 11)","RES","1715035-SRM1","ESAI","NA","Total Alkalinity","122","mg/l CaCO3","2.62","MDL","TARGET","98","10.0","RDL","YES","124","20","50","7.50",
"1715070-BLK1","SM18-22 5210B","RES","1715070-BLK1","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD1, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",
"1715070-BLK2","SM18-22 5210B","RES","1715070-BLK2","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD1, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",
"1715070-BS1","SM18-22 5210B","RES","1715070-BS1","ESAI","NA","Biochemical Oxygen Demand (5-day)","200","mg/l","2.74","MDL","TARGET","101","100","RDL","YES","198","300","300","2.97",
"1715070-SRM1","SM18-22 5210B","RES","1715070-SRM1","ESAI","NA","Biochemical Oxygen Demand (5-day)","49.0","mg/l","2.74","MDL","TARGET","76","30.0","RDL","YES","64.5","300","300","2.97",
"1715070-SRM2","SM18-22 5210B","RES","1715070-SRM2","ESAI","NA","Biochemical Oxygen Demand (5-day)","44.0","mg/l","2.74","MDL","TARGET","68","30.0","RDL","YES","64.5","300","300","2.97",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","156-59-2","cis-1,2-

Dichloroethene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",
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Dichloroethene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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ether", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "17060-07-0", "1,2-Dichloroethane-
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7", "Dibromofluoromethane", "51.2", "g/l", "-99", "NA", "SUR", "102", "-99", "NA", "YES", "50.0", "5", "5", "-99",
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d5", "50.0", "g/l", "-99", "NA", "ISTD", "97", "-99", "NA", "YES", "50.0", "5", "5", "-99",
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-
d4", "50.0", "g/l", "-99", "NA", "ISTD", "101", "-99", "NA", "YES", "50.0", "5", "5", "-99",
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "460-00-4", "4-
Bromofluorobenzene", "52.2", "g/l", "-99", "NA", "SUR", "104", "-99", "NA", "YES", "50.0", "5", "5", "-99",
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "462-06-
6", "Fluorobenzene", "50.0", "g/l", "-99", "NA", "ISTD", "93", "-99", "NA", "YES", "50.0", "5", "5", "-99",
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Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",
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(MBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
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"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "74-87-
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"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "74-97-
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"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-00-
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"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-01-4", "Vinyl
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-09-2", "Methylene
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-15-0", "Carbon
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-25-
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",

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"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
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"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","75-09-2","Methylene chloride","22.3","g/l","-99","NA","TARGET","112","-99","NA","YES","20.0","5","5","-99",
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




















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 "1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","78-87-5","1,2-Dichloropropane","20.9","g/l","-99","NA","TARGET","105","-99","NA","YES","20.0","5","5","-99",
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


























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"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","","0.5","RDL","YES","-99","","5","5","0.5",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","","1.0","RDL","YES","-99","","5","5","0.5",

"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","17060-07-0","1,2-Dichloroethane-d4","52.8","g/l","-99","NA","SUR","106","-99","NA","YES","50.0","5","5","-99",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","179601-23-1","m,p-Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","1868-53-7","Dibromofluoromethane","50.9","g/l","-99","NA","SUR","102","-99","NA","YES","50.0","5","5","-99",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","2037-26-5","Toluene-d8","49.9","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","99","-99","NA","YES","50.0","5","5","-99",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","98","-99","NA","YES","50.0","5","5","-99",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","460-00-4","4-Bromofluorobenzene","50.0","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","104","-99","NA","YES","50.0","5","5","-99",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","56-23-5","Carbon tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","591-78-6","2-Hexanone (MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"1715452-BLK1","SW846 8260C","RES","1715452-BLK1","ESAI","74-83-

9", "Bromomethane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "74-87-
3", "Chloromethane", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "74-97-
5", "Bromochloromethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-00-
3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-01-4", "Vinyl
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-09-2", "Methylene
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-15-0", "Carbon
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-25-
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-27-
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-34-3", "1,1-
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-35-4", "1,1-
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-69-4", "Trichlorofluoromethane (Freon
11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "75-71-8", "Dichlorodifluoromethane
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "76-13-1", "1,1,2-Trichlorotrifluoroethane
(Freon 113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "78-87-5", "1,2-
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "78-93-3", "2-Butanone
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "79-00-5", "1,1,2-
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "79-01-
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "79-20-9", "Methyl
acetate", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "79-34-5", "1,1,2,2-
Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "87-61-6", "1,2,3-
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "95-47-6", "o-
Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "95-50-1", "1,2-
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "96-12-8", "1,2-Dibromo-3-
chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "98-82-
8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "100-41-
4", "Ethylbenzene", "23.3", "g/l", "-99", "NA", "TARGET", "117", "-99", "NA", "YES", "20.0", "5", "5", "-99",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "100-42-
5", "Styrene", "23.6", "g/l", "-99", "NA", "TARGET", "118", "-99", "NA", "YES", "20.0", "5", "5", "-99",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "10061-01-5", "cis-1,3-
Dichloropropene", "21.1", "g/l", "-99", "NA", "TARGET", "105", "-99", "NA", "YES", "20.0", "5", "5", "-99",
"1715452-BLK1", "SW846 8260C", "RES", "1715452-BLK1", "ESAI", "10061-02-6", "trans-1,3-
Dichloropropene", "21.9", "g/l", "-99", "NA", "TARGET", "110", "-99", "NA", "YES", "20.0", "5", "5", "-99",

"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","106-46-7","1,4-Dichlorobenzene","22.0","g/l","-99","NA","TARGET","110","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","106-93-4","1,2-Dibromoethane (EDB)","22.2","g/l","-99","NA","TARGET","111","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","107-06-2","1,2-Dichloroethane","21.2","g/l","-99","NA","TARGET","106","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","21.0","g/l","-99","NA","TARGET","105","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","108-87-2","Methylcyclohexane","21.6","g/l","-99","NA","TARGET","108","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","108-88-3","Toluene","21.2","g/l","-99","NA","TARGET","106","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","108-90-7","Chlorobenzene","22.7","g/l","-99","NA","TARGET","113","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","110-82-7","Cyclohexane","22.0","g/l","-99","NA","TARGET","110","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","120-82-1","1,2,4-Trichlorobenzene","21.5","g/l","-99","NA","TARGET","107","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","124-48-1","Dibromochloromethane","21.4","g/l","-99","NA","TARGET","107","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","127-18-4","Tetrachloroethene","21.5","g/l","-99","NA","TARGET","108","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","156-59-2","cis-1,2-Dichloroethene","21.4","g/l","-99","NA","TARGET","107","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","156-60-5","trans-1,2-Dichloroethene","20.7","g/l","-99","NA","TARGET","104","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","1634-04-4","Methyl tert-butyl ether","22.9","g/l","-99","NA","TARGET","115","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","17060-07-0","1,2-Dichloroethane-d4","52.3","g/l","-99","NA","SUR","105","-99","NA","YES","50.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","179601-23-1","m,p-Xylene","23.7","g/l","-99","NA","TARGET","119","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","1868-53-7","Dibromofluoromethane","50.1","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","2037-26-5","Toluene-d8","49.5","g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","94","-99","NA","YES","50.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","96","-99","NA","YES","50.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","460-00-4","4-Bromofluorobenzene","50.5","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","96","-99","NA","YES","50.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","541-73-1","1,3-Dichlorobenzene","23.4","g/l","-99","NA","TARGET","117","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","56-23-5","Carbon tetrachloride","22.1","g/l","-99","NA","TARGET","111","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","591-78-6","2-Hexanone (MBK)","21.9","g/l","-99","NA","TARGET","110","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","67-64-1","Acetone","23.2","g/l","-99","NA","TARGET","116","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","67-66-3","Chloroform","21.5","g/l","-99","NA","TARGET","108","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","71-43-2","Benzene","21.6","g/l","-99","NA","TARGET","108","-99","NA","YES","20.0","5","5","-99",

"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","71-55-6","1,1,1-Trichloroethane","22.4","g/l","-99","NA","TARGET","112","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","74-83-9","Bromomethane","17.7","g/l","-99","NA","TARGET","88","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","74-87-3","Chloromethane","22.0","g/l","-99","NA","TARGET","110","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","74-97-5","Bromochloromethane","21.0","g/l","-99","NA","TARGET","105","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-00-3","Chloroethane","20.8","g/l","-99","NA","TARGET","104","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-01-4","Vinyl chloride","21.9","g/l","-99","NA","TARGET","109","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-09-2","Methylene chloride","20.8","g/l","-99","NA","TARGET","104","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-15-0","Carbon disulfide","22.1","g/l","-99","NA","TARGET","111","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-25-2","Bromoform","24.1","g/l","-99","NA","TARGET","120","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-27-4","Bromodichloromethane","23.6","g/l","-99","NA","TARGET","118","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-34-3","1,1-Dichloroethane","22.1","g/l","-99","NA","TARGET","111","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-35-4","1,1-Dichloroethene","20.5","g/l","-99","NA","TARGET","102","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","22.8","g/l","-99","NA","TARGET","114","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","19.5","g/l","-99","NA","TARGET","98","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","19.9","g/l","-99","NA","TARGET","99","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","78-87-5","1,2-Dichloropropane","20.5","g/l","-99","NA","TARGET","103","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","78-93-3","2-Butanone (MEK)","22.0","g/l","-99","NA","TARGET","110","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","79-00-5","1,1,2-Trichloroethane","22.7","g/l","-99","NA","TARGET","114","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","79-01-6","Trichloroethene","21.3","g/l","-99","NA","TARGET","106","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","79-20-9","Methyl acetate","17.8","g/l","-99","NA","TARGET","89","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","23.9","g/l","-99","NA","TARGET","120","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","87-61-6","1,2,3-Trichlorobenzene","22.7","g/l","-99","NA","TARGET","114","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","95-47-6","o-Xylene","23.9","g/l","-99","NA","TARGET","119","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","95-50-1","1,2-Dichlorobenzene","22.7","g/l","-99","NA","TARGET","114","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","24.9","g/l","-99","NA","TARGET","124","-99","NA","YES","20.0","5","5","-99",
"1715452-BS1","SW846 8260C","RES","1715452-BS1","ESAI","98-82-8","Isopropylbenzene","22.5","g/l","-99","NA","TARGET","113","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","100-41-4","Ethylbenzene","20.6","g/l","-99","NA","TARGET","103","13","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","100-42-

5", "Styrene", "20.3", "g/l", "-99", "NA", "TARGET", "102", "15", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "10061-01-5", "cis-1,3-
 Dichloropropene", "19.0", "g/l", "-99", "NA", "TARGET", "95", "10", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "10061-02-6", "trans-1,3-
 Dichloropropene", "20.0", "g/l", "-99", "NA", "TARGET", "100", "9", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "106-46-7", "1,4-
 Dichlorobenzene", "20.8", "g/l", "-99", "NA", "TARGET", "104", "6", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "106-93-4", "1,2-Dibromoethane
 (EDB)", "20.2", "g/l", "-99", "NA", "TARGET", "101", "9", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "107-06-2", "1,2-
 Dichloroethane", "19.6", "g/l", "-99", "NA", "TARGET", "98", "8", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "108-10-1", "4-Methyl-2-pentanone
 (MIBK)", "19.6", "g/l", "-99", "NA", "TARGET", "98", "7", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "108-87-
 2", "Methylcyclohexane", "19.4", "g/l", "-99", "NA", "TARGET", "97", "11", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "108-88-
 3", "Toluene", "18.9", "g/l", "-99", "NA", "TARGET", "95", "12", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "108-90-
 7", "Chlorobenzene", "20.6", "g/l", "-99", "NA", "TARGET", "103", "10", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "110-82-
 7", "Cyclohexane", "19.6", "g/l", "-99", "NA", "TARGET", "98", "11", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "120-82-1", "1,2,4-
 Trichlorobenzene", "20.2", "g/l", "-99", "NA", "TARGET", "101", "6", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "124-48-
 1", "Dibromochloromethane", "20.2", "g/l", "-99", "NA", "TARGET", "101", "6", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "127-18-
 4", "Tetrachloroethene", "18.6", "g/l", "-99", "NA", "TARGET", "93", "14", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "156-59-2", "cis-1,2-
 Dichloroethene", "19.0", "g/l", "-99", "NA", "TARGET", "95", "12", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "156-60-5", "trans-1,2-
 Dichloroethene", "19.7", "g/l", "-99", "NA", "TARGET", "98", "5", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "1634-04-4", "Methyl tert-butyl
 ether", "23.4", "g/l", "-99", "NA", "TARGET", "117", "2", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "17060-07-0", "1,2-Dichloroethane-
 d4", "50.4", "g/l", "-99", "NA", "SUR", "101", "-99", "NA", "YES", "50.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "179601-23-1", "m,p-
 Xylene", "20.8", "g/l", "-99", "NA", "TARGET", "104", "13", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "1868-53-
 7", "Dibromofluoromethane", "50.1", "g/l", "-99", "NA", "SUR", "100", "-99", "NA", "YES", "50.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "2037-26-5", "Toluene-
 d8", "49.4", "g/l", "-99", "NA", "SUR", "99", "-99", "NA", "YES", "50.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "3114-55-4", "Chlorobenzene-
 d5", "50.0", "g/l", "-99", "NA", "ISTD", "103", "-99", "NA", "YES", "50.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-
 d4", "50.0", "g/l", "-99", "NA", "ISTD", "103", "-99", "NA", "YES", "50.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "460-00-4", "4-
 Bromofluorobenzene", "49.7", "g/l", "-99", "NA", "SUR", "99", "-99", "NA", "YES", "50.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "462-06-
 6", "Fluorobenzene", "50.0", "g/l", "-99", "NA", "ISTD", "104", "-99", "NA", "YES", "50.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "541-73-1", "1,3-
 Dichlorobenzene", "21.2", "g/l", "-99", "NA", "TARGET", "106", "10", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "56-23-5", "Carbon
 tetrachloride", "19.2", "g/l", "-99", "NA", "TARGET", "96", "14", "-99", "NA", "YES", "20.0", "5", "5", "-99",
 "1715452-BSD1", "SW846 8260C", "RES", "1715452-BSD1", "ESAI", "591-78-6", "2-Hexanone
 (MBK)", "19.9", "g/l", "-99", "NA", "TARGET", "100", "10", "-99", "NA", "YES", "20.0", "5", "5", "-99",

"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","67-64-1","Acetone","22.4","g/l","-99","NA","TARGET","112","4","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","67-66-3","Chloroform","19.3","g/l","-99","NA","TARGET","96","11","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","71-43-2","Benzene","19.7","g/l","-99","NA","TARGET","98","10","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","71-55-6","1,1,1-Trichloroethane","19.9","g/l","-99","NA","TARGET","99","12","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","74-83-9","Bromomethane","17.7","g/l","-99","NA","TARGET","88","0.2","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","74-87-3","Chloromethane","19.4","g/l","-99","NA","TARGET","97","12","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","74-97-5","Bromochloromethane","19.4","g/l","-99","NA","TARGET","97","8","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-00-3","Chloroethane","20.6","g/l","-99","NA","TARGET","103","1","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-01-4","Vinyl chloride","20.1","g/l","-99","NA","TARGET","101","8","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-09-2","Methylene chloride","18.3","g/l","-99","NA","TARGET","92","13","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-15-0","Carbon disulfide","19.4","g/l","-99","NA","TARGET","97","13","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-25-2","Bromoform","22.4","g/l","-99","NA","TARGET","112","7","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-27-4","Bromodichloromethane","20.7","g/l","-99","NA","TARGET","104","13","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-34-3","1,1-Dichloroethane","19.9","g/l","-99","NA","TARGET","99","11","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-35-4","1,1-Dichloroethene","19.2","g/l","-99","NA","TARGET","96","7","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","19.6","g/l","-99","NA","TARGET","98","15","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","17.1","g/l","-99","NA","TARGET","86","13","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","19.1","g/l","-99","NA","TARGET","95","4","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","78-87-5","1,2-Dichloropropane","18.9","g/l","-99","NA","TARGET","94","8","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","78-93-3","2-Butanone (MEK)","19.0","g/l","-99","NA","TARGET","95","14","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","79-00-5","1,1,2-Trichloroethane","19.9","g/l","-99","NA","TARGET","100","13","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","79-01-6","Trichloroethene","19.5","g/l","-99","NA","TARGET","98","9","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","79-20-9","Methyl acetate","18.3","g/l","-99","NA","TARGET","92","3","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","21.0","g/l","-99","NA","TARGET","105","13","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","87-61-6","1,2,3-Trichlorobenzene","22.1","g/l","-99","NA","TARGET","111","3","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","95-47-6","o-Xylene","20.9","g/l","-99","NA","TARGET","104","13","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","95-50-1","1,2-Dichlorobenzene","21.0","g/l","-99","NA","TARGET","105","8","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","96-12-8","1,2-Dibromo-3-

chloropropane","23.1","g/l","-99","NA","TARGET","116","7","-99","NA","YES","20.0","5","5","-99",
"1715452-BSD1","SW846 8260C","RES","1715452-BSD1","ESAI","98-82-
8","Isopropylbenzene","20.4","g/l","-99","NA","TARGET","102","10","-99","NA","YES","20.0","5","5","-99",
,"
"1715514-BLK1","Mod EPA 3C/SOP RSK-175","RES","1715514-BLK1","ESAI","74-82-
8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20",
"1715514-BLK1","Mod EPA 3C/SOP RSK-175","RES","1715514-BLK1","ESAI","74-84-
0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00",
"1715514-BS1","Mod EPA 3C/SOP RSK-175","RES","1715514-BS1","ESAI","74-82-
8","Methane","428","mg/l","-99","NA","TARGET","86","-99","NA","YES","500","10","10","-99",
"1715514-BS1","Mod EPA 3C/SOP RSK-175","RES","1715514-BS1","ESAI","74-84-
0","Ethane","471","mg/l","-99","NA","TARGET","94","-99","NA","YES","500","10","10","-99",
"1715538-BLK1","SM5310B (00, 11)","RES","1715538-BLK1","ESAI","NA","Total Organic
Carbon","0.500","mg/l","U","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500",
"1715538-BS1","SM5310B (00, 11)","RES","1715538-BS1","ESAI","NA","Total Organic
Carbon","16.9","mg/l","0.238","MDL","TARGET","113","1.00","RDL","YES","15.0","40","40","0.500",
"1715538-CCB1","SM5310B (00, 11)","RES","1715538-CCB1","ESAI","NA","Total Organic
Carbon","0.171","mg/l","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",
"1715538-CCB2","SM5310B (00, 11)","RES","1715538-CCB2","ESAI","NA","Total Organic
Carbon","0.130","mg/l","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",
"1715538-CCB3","SM5310B (00, 11)","RES","1715538-CCB3","ESAI","NA","Total Organic
Carbon","0.335","mg/l","J","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",
"1715538-CCB4","SM5310B (00, 11)","RES","1715538-CCB4","ESAI","NA","Total Organic
Carbon","0.316","mg/l","J","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",
"1715538-CCV1","SM5310B (00, 11)","RES","1715538-CCV1","ESAI","NA","Total Organic
Carbon","14.0","mg/l","0.238","MDL","TARGET","93","1.00","RDL","YES","15.0","40","40","0.500",
"1715538-CCV2","SM5310B (00, 11)","RES","1715538-CCV2","ESAI","NA","Total Organic
Carbon","17.0","mg/l","0.238","MDL","TARGET","113","1.00","RDL","YES","15.0","40","40","0.500",
"1715538-CCV3","SM5310B (00, 11)","RES","1715538-CCV3","ESAI","NA","Total Organic
Carbon","17.0","mg/l","0.238","MDL","TARGET","114","1.00","RDL","YES","15.0","40","40","0.500",
"1715538-CCV4","SM5310B (00, 11)","RES","1715538-CCV4","ESAI","NA","Total Organic
Carbon","16.9","mg/l","0.238","MDL","TARGET","113","1.00","RDL","YES","15.0","40","40","0.500",
"1715538-SRM1","SM5310B (00, 11)","RES","1715538-SRM1","ESAI","NA","Total Organic
Carbon","17.5","mg/l","QM9","0.238","MDL","TARGET","121","1.00","RDL","YES","14.6","40","40","0.500",
"1715597-BLK1","SW846 6010C","RES","1715597-BLK1","ESAI","7429-90-
5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.05
00",
"1715597-BLK1","SW846 6010C","RES","1715597-BLK1","ESAI","7439-89-
6","Iron","0.0300","mg/l","U","0.0089","MDL","TARGET","0.0300","RDL","YES","-99","50","50","0.0300",
"1715597-BLK1","SW846 6010C","RES","1715597-BLK1","ESAI","7439-95-
4","Magnesium","0.0100","mg/l","U","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0
100",
"1715597-BLK1","SW846 6010C","RES","1715597-BLK1","ESAI","7440-09-
7","Potassium","0.250","mg/l","U","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250",
"1715597-BLK1","SW846 6010C","RES","1715597-BLK1","ESAI","7440-23-
5","Sodium","0.250","mg/l","U","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250",
"1715597-BLK1","SW846 6010C","RES","1715597-BLK1","ESAI","7440-70-
2","Calcium","0.0500","mg/l","U","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500",
,"
"1715597-BS1","SW846 6010C","RES","1715597-BS1","ESAI","7429-90-
5","Aluminum","2.51","mg/l","0.0206","MDL","TARGET","100","0.0500","RDL","YES","2.50","50","50","0.0
500",
"1715597-BS1","SW846 6010C","RES","1715597-BS1","ESAI","7439-89-
6","Iron","2.57","mg/l","0.0089","MDL","TARGET","103","0.0300","RDL","YES","2.50","50","50","0.0300",
"1715597-BS1","SW846 6010C","RES","1715597-BS1","ESAI","7439-95-
4","Magnesium","2.60","mg/l","0.0088","MDL","TARGET","104","0.0200","RDL","YES","2.50","50","50","0.
0100",

"1715597-BS1","SW846 6010C","RES","1715597-BS1","ESAI","7440-09-7","Potassium","25.3","mg/l","0.120","MDL","TARGET","101","1.00","RDL","YES","25.0","50","50","0.250",
"1715597-BS1","SW846 6010C","RES","1715597-BS1","ESAI","7440-23-5","Sodium","12.4","mg/l","0.0785","MDL","TARGET","99","0.500","RDL","YES","12.5","50","50","0.250",
"1715597-BS1","SW846 6010C","RES","1715597-BS1","ESAI","7440-70-2","Calcium","12.7","mg/l","0.0142","MDL","TARGET","102","0.200","RDL","YES","12.5","50","50","0.0500",
"1715597-BSD1","SW846 6010C","RES","1715597-BSD1","ESAI","7429-90-5","Aluminum","2.55","mg/l","0.0206","MDL","TARGET","102","2","0.0500","RDL","YES","2.50","50","50","0.0500",
"1715597-BSD1","SW846 6010C","RES","1715597-BSD1","ESAI","7439-89-6","Iron","2.56","mg/l","0.0089","MDL","TARGET","102","0.6","0.0300","RDL","YES","2.50","50","50","0.0300",
"1715597-BSD1","SW846 6010C","RES","1715597-BSD1","ESAI","7439-95-4","Magnesium","2.53","mg/l","0.0088","MDL","TARGET","101","3","0.0200","RDL","YES","2.50","50","50","0.0100",
"1715597-BSD1","SW846 6010C","RES","1715597-BSD1","ESAI","7440-09-7","Potassium","24.7","mg/l","0.120","MDL","TARGET","99","2","1.00","RDL","YES","25.0","50","50","0.250",
"1715597-BSD1","SW846 6010C","RES","1715597-BSD1","ESAI","7440-23-5","Sodium","12.1","mg/l","0.0785","MDL","TARGET","97","2","0.500","RDL","YES","12.5","50","50","0.250",
"1715597-BSD1","SW846 6010C","RES","1715597-BSD1","ESAI","7440-70-2","Calcium","12.8","mg/l","0.0142","MDL","TARGET","103","0.9","0.200","RDL","YES","12.5","50","50","0.0500",
"1715599-BLK1","EPA 245.1/7470A","RES","1715599-BLK1","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.00020",
"1715599-BS1","EPA 245.1/7470A","RES","1715599-BS1","ESAI","7439-97-6","Mercury","0.00447","mg/l","0.00013","MDL","TARGET","89","0.00020","RDL","YES","0.00500","20","20","0.00020",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","1763-23-1","Perfluorooctanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","1763-23-1L","13C8-PFOS","33","ng/l","-99","NA","SUR","69","-99","NA","YES","48","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","2058-94-8L","13C7-PFUnDA","31","ng/l","-99","NA","SUR","63","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","2706-90-3","Perfluoropentanoic Acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","2706-90-3L","13C5-PFPeA","39","ng/l","-99","NA","SUR","78","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","307-24-4","Perfluorohexanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","307-24-4L","13C5-PFHxA","37","ng/l","-99","NA","SUR","75","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","307-55-1L","13C2-PFDoDA","27","ng/l","-99","NA","SUR","54","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","335-67-1","Perfluorooctanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","335-67-1L","13C8-PFOA","37","ng/l","-99","NA","SUR","74","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","335-76-2","Perfluorodecanoic acid","2","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",

"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","335-76-2L","13C6-PFDA","38","ng/l","-99","NA","SUR","76","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","355-46-4","Perfluorohexanesulfonate","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","355-46-4L","13C3-PFHxS","33","ng/l","-99","NA","SUR","71","-99","NA","YES","47","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","375-22-4","Perfluorobutanoic Acid","0","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","375-22-4L","13C4-PFBA","38","ng/l","-99","NA","SUR","75","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","375-73-5","Perfluorobutanesulfonate","0","ng/l","0.8","MDL","TARGET","3","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","375-73-5L","13C3-PFBS","33","ng/l","-99","NA","SUR","72","-99","NA","YES","46","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","375-85-9","Perfluoroheptanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","375-85-9L","13C4-PFHpA","38","ng/l","-99","NA","SUR","75","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","375-95-1","Perfluorononanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","375-95-1L","13C9-PFNA","34","ng/l","-99","NA","SUR","69","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","376-06-7L","13C2-PFTeDA","23","ng/l","-99","NA","SUR","46","-99","NA","YES","50","-99",
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"
"TF1-FRB-083017","EPA 537 Modified","RES","SC38733-06","ESAI","754-91-6L","13C8-PFOA","30","ng/l","-99","NA","SUR","59","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 200/6000 methods","RES","SC38733-03","ESAI","NA","Preservation","0","N/A","-99","NA","TARGET","-99","NA","YES","-99","1","1","-99","Field Preserved; pH<2 confirmed"
"TF1-GZ-112-083017","EPA 245.1/7470A","RES","SC38733-03","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.00020",
"TF1-GZ-112-083017","EPA 300.0","RES","SC38733-03","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.009","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",
"TF1-GZ-112-083017","EPA 300.0","RES","SC38733-03","ESAI","14808-79-8","Sulfate as SO4","1.00","mg/l","U","0.307","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",
"TF1-GZ-112-083017","EPA 300.0","RES","SC38733-03","ESAI","16887-00-6","Chloride","10.4","mg/l","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","1763-23-1","Perfluorooctanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","1763-23-1L","13C8-PFOS","33","ng/l","-99","NA","SUR","70","-99","NA","YES","48","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","2058-94-8L","13C7-PFUnDA","33","ng/l","-99","NA","SUR","67","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","2706-90-3","Perfluoropentanoic

Acid","3","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","2706-90-3L","13C5-
PFPeA","41","ng/l","-99","NA","SUR","82","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","307-24-4","Perfluorohexanoic
acid","2","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","307-24-4L","13C5-
PFHxA","40","ng/l","-99","NA","SUR","80","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","307-55-1","Perfluorododecanoic
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","307-55-1L","13C2-
PFDoDA","28","ng/l","-99","NA","SUR","57","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","335-67-1","Perfluorooctanoic
acid","2","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","335-67-1L","13C8-
PFOA","37","ng/l","-99","NA","SUR","74","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","335-76-2","Perfluorodecanoic
acid","2","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","335-76-2L","13C6-
PFDA","39","ng/l","-99","NA","SUR","79","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","335-77-
3","Perfluorodecanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","355-46-
4","Perfluorohexanesulfonate","3","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","355-46-4L","13C3-
PFHxS","33","ng/l","-99","NA","SUR","70","-99","NA","YES","47","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","375-22-4","Perfluorobutanoic
Acid","0","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99","<",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","375-22-4L","13C4-
PFBA","36","ng/l","-99","NA","SUR","72","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","375-73-
5","Perfluorobutanesulfonate","0","ng/l","0.8","MDL","TARGET","3","RDL","YES","-99","-99","<",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","375-73-5L","13C3-
PFBS","37","ng/l","-99","NA","SUR","80","-99","NA","YES","46","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","375-85-9","Perfluoroheptanoic
acid","2","ng/l","Ja","0.5","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","375-85-9L","13C4-
PFHpA","37","ng/l","-99","NA","SUR","75","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","375-92-
8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","375-95-1","Perfluorononanoic
acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","375-95-1L","13C9-
PFNA","30","ng/l","-99","NA","SUR","60","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","376-06-7","Perfluorotetradecanoic
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","376-06-7L","13C2-
PFTeDA","26","ng/l","-99","NA","SUR","52","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","72629-94-8","Perfluorotridecanoic
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","754-91-
6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<",
"TF1-GZ-112-083017","EPA 537 Modified","RES","SC38733-03","ESAI","754-91-6L","13C8-
PFOSA","6","ng/l","-99","NA","SUR","12","-99","NA","YES","50","-99",
"TF1-GZ-112-083017","Mod EPA 3C/SOP RSK-175","RES","SC38733-03","ESAI","74-82-
8","Methane","65.0","g/l","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20",
"TF1-GZ-112-083017","Mod EPA 3C/SOP RSK-175","RES","SC38733-03","ESAI","74-84-
0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00",

"TF1-GZ-112-083017","SM18-22 5210B","RES","SC38733-03","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD4, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",
"TF1-GZ-112-083017","SM2320B (97, 11)","RES","SC38733-03","ESAI","NA","Total Alkalinity","95.0","mg/l CaCO3","0.524","MDL","TARGET","2.00","RDL","YES","-99","100","50","1.50",
"TF1-GZ-112-083017","SM5310B (00, 11)","RES","SC38733-03","ESAI","NA","Total Organic Carbon","1.54","mg/l","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500",
"TF1-GZ-112-083017","SW846 6010C","RES","SC38733-03","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500",
"TF1-GZ-112-083017","SW846 6010C","RES","SC38733-03","ESAI","7439-89-6","Iron","43.7","mg/l","0.0089","MDL","TARGET","0.0300","RDL","YES","-99","50","50","0.0300",
"TF1-GZ-112-083017","SW846 6010C","RES","SC38733-03","ESAI","7439-95-4","Magnesium","5.54","mg/l","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100",
"TF1-GZ-112-083017","SW846 6010C","RES","SC38733-03","ESAI","7440-09-7","Potassium","1.00","mg/l","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250",
"TF1-GZ-112-083017","SW846 6010C","RES","SC38733-03","ESAI","7440-23-5","Sodium","6.35","mg/l","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250",
"TF1-GZ-112-083017","SW846 6010C","RES","SC38733-03","ESAI","7440-70-2","Calcium","14.8","mg/l","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500",
"TF1-GZ-112-083017","SW-846 6020A","DL10","SC38733-03","ESAI","7439-96-5","Manganese","17.4","mg/l","0.0090","MDL","TARGET","0.0400","RDL","YES","-99","-99",
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7439-92-1","Lead","0","mg/l","0.00011","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7439-98-7","Molybdenum","0.0038","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99",
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-02-0","Nickel","0.0042","mg/l","0.0010","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-22-4","Silver","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-28-0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-36-0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-38-2","Arsenic","0.149","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-39-3","Barium","0.0167","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-41-7","Beryllium","0","mg/l","0.000071","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-43-9","Cadmium","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-47-3","Chromium","0","mg/l","0.00087","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-48-4","Cobalt","0.0559","mg/l","0.00016","MDL","TARGET","0.0010","RDL","YES","-99","-99",
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-50-8","Copper","0","mg/l","0.00054","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-62-2","Vanadium","0","mg/l","0.00021","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7440-66-6","Zinc","0","mg/l","0.0039","MDL","TARGET","0.0300","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 6020A","RES","SC38733-03","ESAI","7782-49-2","Selenium","0","mg/l","0.00050","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"
"TF1-GZ-112-083017","SW-846 8015B","RES","SC38733-03","ESAI","108-90-7","Chlorobenzene","0.015","mg/l","-99","NA","SUR","114","-99","NA","YES","0.014","-99",
"TF1-GZ-112-083017","SW-846 8015B","RES","SC38733-03","ESAI","84-15-1","Orthoterphenyl","0.013","mg/l","-99","NA","SUR","95","-99","NA","YES","0.014","-99",

"TF1-GZ-112-083017","SW-846 8015B","RES","SC38733-03","ESAI","PHCC8C44","C8-C44","2.3","mg/l","0.056","MDL","TARGET","0.22","RDL","YES","-99","-99",
"TF1-GZ-112-083017","SW-846 8015B","RES","SC38733-03","ESAI","PHCE","Total TPH","2.3","mg/l","0.056","MDL","TARGET","0.22","RDL","YES","-99","-99",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","1024-57-3","Heptachlor epoxide","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","1031-07-8","Endosulfan sulfate","0.021","g/l","U","0.021","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.249","g/l","-99","NA","SUR","117","-99","NA","YES","0.213","940","10","-99",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","15972-60-8","Alachlor","0.021","g/l","U","0.020","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.201","g/l","-99","NA","SUR","95","-99","NA","YES","0.213","940","10","-99",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","309-00-2","Aldrin","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","319-84-6","alpha-BHC","0.021","g/l","U","0.012","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","319-85-7","beta-BHC","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","319-86-8","delta-BHC","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","33213-65-9","Endosulfan II","0.021","g/l","U","0.021","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","50-29-3","4,4'-DDT (p,p')","0.032","g/l","U","0.019","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.032",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","5103-71-9","alpha-Chlordane","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","5103-74-2","Chlordane (gamma) (trans)","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","53494-70-5","Endrin ketone","0.021","g/l","U","0.018","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","57-74-9","Chlordane","0.069","g/l","U","0.055","MDL","TARGET","0.069","RDL","YES","-99","940","10","0.069",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","58-89-9","gamma-BHC (Lindane)","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","60-57-1","Dieldrin","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","72-20-8","Endrin","0.021","g/l","U","0.020","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","72-43-5","Methoxychlor","0.021","g/l","U","0.019","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","72-54-8","4,4'-DDD (p,p')","0.021","g/l","U","0.020","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","72-55-9","4,4'-DDE (p,p')","0.021","g/l","U","0.019","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","7421-93-4","Endrin aldehyde","0.021","g/l","U","0.020","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","76-44-8","Heptachlor","0.021","g/l","U","0.021","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","8001-35-2","Toxaphene","0.532","g/l","U","0.349","MDL","TARGET","0.532","RDL","YES","-99","940","10","0.532",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","877-09-8","2,4,5,6-TC-M-Xylene

(IS),"0.020","g/ml","-99","NA","ISTD","123","-99","NA","YES","10.0","940","10","-99",
"TF1-GZ-112-083017","SW846 8081B","RES","SC38733-03","ESAI","959-98-8","Endosulfan
I","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","100-41-
4","Ethylbenzene","220","g/l","D","3.3","MDL","TARGET","10.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","110-82-
7","Cyclohexane","104","g/l","D","7.9","MDL","TARGET","50.0","RDL","YES","-99","5","5","20.0",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","17060-07-0","1,2-Dichloroethane-
d4","51.4","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","179601-23-1","m,p-
Xylene","277","g/l","D","3.8","MDL","TARGET","20.0","RDL","YES","-99","5","5","10.0",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","1868-53-
7","Dibromofluoromethane","49.6","g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","2037-26-5","Toluene-
d8","50.0","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","g/l","-99","NA","ISTD","99","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","g/l","-99","NA","ISTD","98","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","460-00-4","4-
Bromofluorobenzene","50.4","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","DL10","SC38733-03RE1","ESAI","462-06-
6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","101","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","100-41-
4","Ethylbenzene","234","g/l","E","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","100-42-
5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","10061-01-5","cis-1,3-
Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","10061-02-6","trans-1,3-
Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","106-46-7","1,4-
Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","107-06-2","1,2-
Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","108-87-
2","Methylcyclohexane","85.6","g/l","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","108-88-
3","Toluene","5.0","g/l","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","108-90-
7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","110-82-
7","Cyclohexane","126","g/l","E","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","120-82-1","1,2,4-
Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","124-48-
1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","127-18-
4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","156-59-2","cis-1,2-
Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","156-60-5","trans-1,2-
Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",

"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","1634-04-4","Methyl tert-butyl ether","1.8","g/l","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","17060-07-0","1,2-Dichloroethane-d4","49.5","g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","179601-23-1","m,p-Xylene","290","g/l","E","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","1868-53-7","Dibromofluoromethane","49.6","g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","2037-26-5","Toluene-d8","52.0","g/l","-99","NA","SUR","104","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","100","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","104","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","460-00-4","4-Bromofluorobenzene","53.0","g/l","-99","NA","SUR","106","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","101","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","56-23-5","Carbon tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","591-78-6","2-Hexanone (MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","71-43-2","Benzene","7.3","g/l","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","74-83-9","Bromomethane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","74-87-3","Chloromethane","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","74-97-5","Bromochloromethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-00-3","Chloroethane","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-01-4","Vinyl chloride","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-09-2","Methylene chloride","2.0","g/l","U","0.7","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-15-0","Carbon disulfide","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-25-2","Bromoform","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-27-4","Bromodichloromethane","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-34-3","1,1-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-35-4","1,1-Dichloroethene","1.0","g/l","U","0.7","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","75-71-8","Dichlorodifluoromethane

(Freon12),"2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113),"1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","78-87-5","1,2-
Dichloropropane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","78-93-3","2-Butanone
(MEK),"2.0","g/l","U","1.1","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","79-00-5","1,1,2-
Trichloroethane","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","79-01-
6","Trichloroethene","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","79-20-9","Methyl
acetate","2.0","g/l","U","0.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","87-61-6","1,2,3-
Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","95-47-6","o-
Xylene","17.5","g/l","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","95-50-1","1,2-
Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-GZ-112-083017","SW846 8260C","RES","SC38733-03","ESAI","98-82-
8","Isopropylbenzene","35.9","g/l","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","1146-65-2","Naphthalene-
d8","40.0","g/ml","-99","NA","ISTD","144","-99","NA","YES","40.0","940","1","-99",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","120-12-
7","Anthracene","1.06","g/l","U","0.647","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","129-00-
0","Pyrene","1.06","g/l","U","0.649","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","15067-26-2","Acenaphthene-
d10","40.0","g/ml","-99","NA","ISTD","151","-99","NA","YES","40.0","940","1","-99",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","1517-22-2","Phenanthrene-
d10","40.0","g/ml","-99","NA","ISTD","148","-99","NA","YES","40.0","940","1","-99",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","1520-96-3","Perylene-
d12","40.0","g/ml","-99","NA","ISTD","105","-99","NA","YES","40.0","940","1","-99",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","1718-51-0","Terphenyl-
d14","36.0","g/l","-99","NA","SUR","68","-99","NA","YES","53.2","940","1","-99",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","1719-03-5","Chrysene-
d12","40.0","g/ml","-99","NA","ISTD","124","-99","NA","YES","40.0","940","1","-99",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","191-24-2","Benzo (g,h,i)
perylene","1.06","g/l","U","0.564","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","1.06","g/l","U","0.617","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","205-99-2","Benzo (b)
fluoranthene","1.06","g/l","U","0.465","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","206-44-
0","Fluoranthene","1.06","g/l","U","0.679","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","207-08-9","Benzo (k)
fluoranthene","1.06","g/l","U","0.511","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",
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8","Acenaphthylene","1.06","g/l","U","0.727","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",
"TF1-GZ-112-083017","SW846 8270D","RES","SC38733-03","ESAI","218-01-
9","Chrysene","1.06","g/l","U","0.566","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",
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Fluorobiphenyl", "27.3", "g/l", "-99", "NA", "SUR", "51", "-99", "NA", "YES", "53.2", "940", "1", "-99",
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d5", "28.6", "g/l", "-99", "NA", "SUR", "54", "-99", "NA", "YES", "53.2", "940", "1", "-99",
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pyrene", "1.06", "g/l", "U", "0.598", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",
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3", "Naphthalene", "13.6", "g/l", "0.729", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",
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Methylnaphthalene", "13.2", "g/l", "0.611", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",
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05", "ESAI", "NA", "Preservation", "0", "N/A", "-99", "NA", "TARGET", "-99", "NA", "YES", "-99", "1", "1", "-99", "Field
Preserved; pH<2 confirmed"
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6", "Mercury", "0.00020", "mg/l", "U", "0.00013", "MDL", "TARGET", "0.00020", "RDL", "YES", "-99", "20", "20", "0.0
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SO4", "75.9", "mg/l", "GS1, D", "0.922", "MDL", "TARGET", "3.00", "RDL", "YES", "-99", "5", "5", "3.00",
"TF1-GZ-118-083017", "EPA 300.0", "RES", "SC38733-05", "ESAI", "14797-55-8", "Nitrate as
N", "0.100", "mg/l", "U", "0.009", "MDL", "TARGET", "0.100", "RDL", "YES", "-99", "5", "5", "0.100",
"TF1-GZ-118-083017", "EPA 300.0", "RES", "SC38733-05", "ESAI", "16887-00-
6", "Chloride", "8.41", "mg/l", "0.0897", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "5", "5", "0.100",
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octanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<"
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PFOS", "37", "ng/l", "-99", "NA", "SUR", "78", "-99", "NA", "YES", "48", "-99",
"TF1-GZ-118-083017", "EPA 537 Modified", "RES", "SC38733-05", "ESAI", "2058-94-8", "Perfluoroundecanoic
acid", "0", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99", "<"
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PFUnDA", "34", "ng/l", "-99", "NA", "SUR", "68", "-99", "NA", "YES", "50", "-99",
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Acid", "8", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",
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PFPeA", "46", "ng/l", "-99", "NA", "SUR", "92", "-99", "NA", "YES", "50", "-99",
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acid", "7", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",
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PFHxA", "42", "ng/l", "-99", "NA", "SUR", "83", "-99", "NA", "YES", "50", "-99",
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acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"
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acid", "6", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",
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"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","355-46-4","Perfluorohexanesulfonate","11","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","355-46-4L","13C3-PFHxS","37","ng/l","-99","NA","SUR","77","-99","NA","YES","48","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","375-22-4","Perfluorobutanoic Acid","5","ng/l","Ja","3","MDL","TARGET","10","RDL","YES","-99","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","375-22-4L","13C4-PFBA","39","ng/l","-99","NA","SUR","77","-99","NA","YES","50","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","375-73-5","Perfluorobutanesulfonate","1","ng/l","Ja","0.8","MDL","TARGET","3","RDL","YES","-99","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","375-73-5L","13C3-PFBS","42","ng/l","-99","NA","SUR","89","-99","NA","YES","47","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","375-85-9","Perfluoroheptanoic acid","4","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","375-85-9L","13C4-PFHpA","41","ng/l","-99","NA","SUR","82","-99","NA","YES","50","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","375-95-1","Perfluorononanoic acid","0.9","ng/l","Ja","0.6","MDL","TARGET","2","RDL","YES","-99","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","375-95-1L","13C9-PFNA","37","ng/l","-99","NA","SUR","75","-99","NA","YES","50","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","376-06-7L","13C2-PFTeDA","25","ng/l","-99","NA","SUR","50","-99","NA","YES","50","-99"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"

"TF1-GZ-118-083017","EPA 537 Modified","RES","SC38733-05","ESAI","754-91-6L","13C8-PFOSA","14","ng/l","-99","NA","SUR","28","-99","NA","YES","50","-99"

"TF1-GZ-118-083017","Mod EPA 3C/SOP RSK-175","RES","SC38733-05","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20"

"TF1-GZ-118-083017","Mod EPA 3C/SOP RSK-175","RES","SC38733-05","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00"

"TF1-GZ-118-083017","SM18-22 5210B","RES","SC38733-05","ESAI","NA","Biochemical Oxygen Demand (5-day)","3.00","mg/l","BOD4","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97"

"TF1-GZ-118-083017","SM2320B (97, 11)","RES","SC38733-05","ESAI","NA","Total Alkalinity","151","mg/l CaCO3","0.524","MDL","TARGET","2.00","RDL","YES","-99","100","50","1.50"

"TF1-GZ-118-083017","SM5310B (00, 11)","RES","SC38733-05","ESAI","NA","Total Organic Carbon","1.78","mg/l","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500"

"TF1-GZ-118-083017","SW846 6010C","RES","SC38733-05","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500"

"TF1-GZ-118-083017","SW846 6010C","RES","SC38733-05","ESAI","7439-89-6","Iron","20.7","mg/l","0.0089","MDL","TARGET","0.0300","RDL","YES","-99","50","50","0.0300"

"TF1-GZ-118-083017","SW846 6010C","RES","SC38733-05","ESAI","7439-95-4","Magnesium","7.54","mg/l","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100"

























"TF1-GZ-118-083017","SW846 6010C","RES","SC38733-05","ESAI","7440-09-7","Potassium","3.28","mg/l","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250"

"TF1-GZ-118-083017","SW846 6010C","RES","SC38733-05","ESAI","7440-23-5","Sodium","7.25","mg/l","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250",
"TF1-GZ-118-083017","SW846 6010C","RES","SC38733-05","ESAI","7440-70-2","Calcium","60.8","mg/l","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500",
"TF1-GZ-118-083017","SW-846 6020A","DL5","SC38733-05","ESAI","7439-96-5","Manganese","7.95","mg/l","0.0045","MDL","TARGET","0.0200","RDL","YES","-99","-99",
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7439-92-1","Lead","0.00015","mg/l","Ja","0.00011","MDL","TARGET","0.0020","RDL","YES","-99","-99",
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7439-98-7","Molybdenum","0.0021","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99",
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-02-0","Nickel","0.0019","mg/l","Ja","0.0010","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-22-4","Silver","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-28-0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-36-0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-38-2","Arsenic","0.300","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-39-3","Barium","0.0169","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-41-7","Beryllium","0","mg/l","0.000071","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-43-9","Cadmium","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-47-3","Chromium","0","mg/l","0.00087","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-48-4","Cobalt","0.0471","mg/l","0.00016","MDL","TARGET","0.0010","RDL","YES","-99","-99",
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-50-8","Copper","0","mg/l","0.00054","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-62-2","Vanadium","0","mg/l","0.00021","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7440-66-6","Zinc","0","mg/l","0.0039","MDL","TARGET","0.0300","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 6020A","RES","SC38733-05","ESAI","7782-49-2","Selenium","0","mg/l","0.00050","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"
"TF1-GZ-118-083017","SW-846 8015B","RES","SC38733-05","ESAI","108-90-7","Chlorobenzene","0.0095","mg/l","-99","NA","SUR","77","-99","NA","YES","0.012","-99",
"TF1-GZ-118-083017","SW-846 8015B","RES","SC38733-05","ESAI","84-15-1","Orthoterphenyl","0.011","mg/l","-99","NA","SUR","91","-99","NA","YES","0.012","-99",
"TF1-GZ-118-083017","SW-846 8015B","RES","SC38733-05","ESAI","PHCC8C44","C8-C44","0","mg/l","0.051","MDL","TARGET","0.20","RDL","YES","-99","-99","<0.20"
"TF1-GZ-118-083017","SW-846 8015B","RES","SC38733-05","ESAI","PHCE","Total TPH","0","mg/l","0.051","MDL","TARGET","0.20","RDL","YES","-99","-99","<0.20"
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","1024-57-3","Heptachlor epoxide","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","1031-07-8","Endosulfan sulfate","0.019","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.212","g/l","-99","NA","SUR","109","-99","NA","YES","0.194","1030","10","-99",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","15972-60-8","Alachlor","0.019","g/l","U","0.018","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.197","g/l","-99","NA","SUR","102","-99","NA","YES","0.194","1030","10","-99",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","309-00-

2","Aldrin","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","319-84-6","alpha-
BHC","0.019","g/l","U","0.011","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","319-85-7","beta-
BHC","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","319-86-8","delta-
BHC","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","33213-65-9","Endosulfan
II","0.019","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","50-29-3","4,4'-DDT
(p,p')","0.029","g/l","U","0.017","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.029",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","5103-71-9","alpha-
Chlordane","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","53494-70-5","Endrin
ketone","0.019","g/l","U","0.017","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","57-74-
9","Chlordane","0.063","g/l","U","0.050","MDL","TARGET","0.063","RDL","YES","-99","1030","10","0.063",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","58-89-9","gamma-BHC
(Lindane)","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","60-57-
1","Dieldrin","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","72-20-
8","Endrin","0.019","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","72-43-
5","Methoxychlor","0.019","g/l","U","0.018","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","72-54-8","4,4'-DDD
(p,p')","0.019","g/l","U","0.018","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","72-55-9","4,4'-DDE
(p,p')","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","7421-93-4","Endrin
aldehyde","0.019","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","76-44-
8","Heptachlor","0.019","g/l","U","0.019","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","8001-35-
2","Toxaphene","0.485","g/l","U","0.318","MDL","TARGET","0.485","RDL","YES","-99","1030","10","0.485",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","g/ml","-99","NA","ISTD","114","-99","NA","YES","10.0","1030","10","-99",
"TF1-GZ-118-083017","SW846 8081B","RES","SC38733-05","ESAI","959-98-8","Endosulfan
I","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","100-41-
4","Ethylbenzene","2.5","g/l","U, D","3.2","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","100-42-5","Styrene","5.0","g/l","U,
D","2.0","MDL","TARGET","5.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","10061-01-5","cis-1,3-
Dichloropropene","2.5","g/l","U, D","1.8","MDL","TARGET","2.5","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","10061-02-6","trans-1,3-
Dichloropropene","2.5","g/l","U, D","1.7","MDL","TARGET","2.5","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","106-46-7","1,4-
Dichlorobenzene","2.5","g/l","U, D","1.4","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","2.5","g/l","U, D","1.0","MDL","TARGET","2.5","RDL","YES","-99","5","5","2.5",

"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","107-06-2","1,2-Dichloroethane","5.0","g/l","U, D","1.4","MDL","TARGET","5.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","10.0","g/l","U, D","2.6","MDL","TARGET","10.0","RDL","YES","-99","5","5","10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","108-87-2","Methylcyclohexane","10.0","g/l","U, D","3.7","MDL","TARGET","25.0","RDL","YES","-99","5","5","10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","108-88-3","Toluene","5.0","g/l","U, D","1.5","MDL","TARGET","5.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","108-90-7","Chlorobenzene","2.5","g/l","U, D","1.2","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","110-82-7","Cyclohexane","10.0","g/l","U, D","3.9","MDL","TARGET","25.0","RDL","YES","-99","5","5","10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","120-82-1","1,2,4-Trichlorobenzene","5.0","g/l","U, D","1.9","MDL","TARGET","5.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","124-48-1","Dibromochloromethane","2.5","g/l","U, D","1.6","MDL","TARGET","2.5","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","127-18-4","Tetrachloroethene","5.0","g/l","U, D","2.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","156-59-2","cis-1,2-Dichloroethene","2.5","g/l","U, D","1.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","156-60-5","trans-1,2-Dichloroethene","5.0","g/l","U, D","1.9","MDL","TARGET","5.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","1634-04-4","Methyl tert-butyl ether","2.5","g/l","U, D","1.2","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","17060-07-0","1,2-Dichloroethane-d4","48.2","g/l","-99","NA","SUR","96","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","179601-23-1","m,p-Xylene","5.0","g/l","U, D","2.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","1868-53-7","Dibromofluoromethane","48.8","g/l","-99","NA","SUR","98","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","2037-26-5","Toluene-d8","50.4","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","109","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","108","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","460-00-4","4-Bromofluorobenzene","51.4","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","116","-99","NA","YES","50.0","5","5","-99",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","541-73-1","1,3-Dichlorobenzene","2.5","g/l","U, D","1.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","56-23-5","Carbon tetrachloride","5.0","g/l","U, D","2.2","MDL","TARGET","5.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","591-78-6","2-Hexanone (MBK)","10.0","g/l","U, D","2.6","MDL","TARGET","10.0","RDL","YES","-99","5","5","10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","67-64-1","Acetone","10.0","g/l","U, D","4.0","MDL","TARGET","50.0","RDL","YES","-99","5","5","10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","67-66-3","Chloroform","5.0","g/l","U, D","1.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","71-43-2","Benzene","2.5","g/l","U, D","1.4","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","71-55-6","1,1,1-Trichloroethane","5.0","g/l","U, D","2.5","MDL","TARGET","5.0","RDL","YES","-99","5","5","5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","74-83-

9,"Bromomethane","10.0","g/l","U,D","4.5","MDL","TARGET","10.0","RDL","YES",-99,,5,5,"10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","74-87-
3","Chloromethane","5.0","g/l","U,D","1.8","MDL","TARGET","10.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","74-97-
5","Bromochloromethane","5.0","g/l","U,
D","1.7","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-00-
3","Chloroethane","10.0","g/l","U,D","2.9","MDL","TARGET","10.0","RDL","YES",-99,,5,5,"10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-01-4","Vinyl
chloride","5.0","g/l","U,D","2.4","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-09-2","Methylene
chloride","10.0","g/l","U,D","3.3","MDL","TARGET","10.0","RDL","YES",-99,,5,5,"10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-15-0","Carbon
disulfide","5.0","g/l","U,D","2.1","MDL","TARGET","10.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-25-2","Bromoform","5.0","g/l","U,
D","2.1","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-27-
4","Bromodichloromethane","2.5","g/l","U,
D","2.1","MDL","TARGET","2.5","RDL","YES",-99,,5,5,"2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-34-3","1,1-
Dichloroethane","5.0","g/l","U,D","1.6","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-35-4","1,1-
Dichloroethene","5.0","g/l","U,D","3.5","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-69-4","Trichlorofluoromethane (Freon
11)","5.0","g/l","U,D","2.4","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","10.0","g/l","U,D","2.9","MDL","TARGET","10.0","RDL","YES",-99,,5,5,"10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113)","5.0","g/l","U,D","2.7","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","78-87-5","1,2-
Dichloropropane","5.0","g/l","U,D","1.5","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","78-93-3","2-Butanone
(MEK)","10.0","g/l","U,D","5.4","MDL","TARGET","10.0","RDL","YES",-99,,5,5,"10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","79-00-5","1,1,2-
Trichloroethane","2.5","g/l","U,D","1.6","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","79-01-
6","Trichloroethene","5.0","g/l","U,D","2.5","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","79-20-9","Methyl
acetate","10.0","g/l","U,D","3.2","MDL","TARGET","25.0","RDL","YES",-99,,5,5,"10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","2.5","g/l","U,D","1.6","MDL","TARGET","2.5","RDL","YES",-99,,5,5,"2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","87-61-6","1,2,3-
Trichlorobenzene","5.0","g/l","U,D","1.9","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","95-47-6","o-Xylene","5.0","g/l","U,
D","1.4","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","95-50-1","1,2-
Dichlorobenzene","2.5","g/l","U,D","1.4","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"2.5",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","10.0","g/l","U,D","4.3","MDL","TARGET","10.0","RDL","YES",-99,,5,5,"10.0",
"TF1-GZ-118-083017","SW846 8260C","DL5","SC38733-05","ESAI","98-82-
8","Isopropylbenzene","5.0","g/l","U,D","1.8","MDL","TARGET","5.0","RDL","YES",-99,,5,5,"5.0",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","1146-65-2","Naphthalene-
d8","40.0","g/ml","-99","NA","ISTD","164","-99","NA","YES","40.0","1050","1","-99",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","120-12-
7","Anthracene","0.952","g/l","U","0.579","MDL","TARGET","4.76","RDL","YES",-99,,1050,"1","0.952"
/
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","129-00-

0","Pyrene","0.952","g/l","U","0.581","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","15067-26-2","Acenaphthene-
d10","40.0","g/ml",-99,"NA","ISTD","173",-99,"NA","YES","40.0","1050","1",-99",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","1517-22-2","Phenanthrene-
d10","40.0","g/ml",-99,"NA","ISTD","160",-99,"NA","YES","40.0","1050","1",-99",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","1520-96-3","Perylene-
d12","40.0","g/ml",-99,"NA","ISTD","117",-99,"NA","YES","40.0","1050","1",-99",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","1718-51-0","Terphenyl-
dl4","34.2","g/l",-99,"NA","SUR","72",-99,"NA","YES","47.6","1050","1",-99",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","1719-03-5","Chrysene-
d12","40.0","g/ml",-99,"NA","ISTD","138",-99,"NA","YES","40.0","1050","1",-99",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","191-24-2","Benzo (g,h,i)
perylene","0.952","g/l","U","0.505","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","0.952","g/l","U","0.552","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","205-99-2","Benzo (b)
fluoranthene","0.952","g/l","U","0.416","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","206-44-
0","Fluoranthene","0.952","g/l","U","0.608","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.95
2",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","207-08-9","Benzo (k)
fluoranthene","0.952","g/l","U","0.457","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","208-96-
8","Acenaphthylene","0.952","g/l","U","0.650","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.
952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","218-01-
9","Chrysene","0.952","g/l","U","0.507","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","321-60-8","2-
Fluorobiphenyl","25.4","g/l",-99,"NA","SUR","53",-99,"NA","YES","47.6","1050","1",-99",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","4165-60-0","Nitrobenzene-
d5","26.0","g/l",-99,"NA","SUR","55",-99,"NA","YES","47.6","1050","1",-99",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","50-32-8","Benzo (a)
pyrene","0.952","g/l","U","0.535","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","53-70-3","Dibenzo (a,h)
anthracene","0.952","g/l","U","0.429","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","56-55-3","Benzo (a)
anthracene","0.952","g/l","U","0.510","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","83-32-
9","Acenaphthene","0.952","g/l","U","0.658","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.9
52",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","85-01-
8","Phenanthrene","0.952","g/l","U","0.558","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.95
2",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","86-73-
7","Fluorene","0.952","g/l","U","0.583","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","90-12-0","1-
Methylnaphthalene","0.952","g/l","U","0.698","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.9
52",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","91-20-
3","Naphthalene","0.952","g/l","U","0.652","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.952",
",
"TF1-GZ-118-083017","SW846 8270D","RES","SC38733-05","ESAI","91-57-6","2-
Methylnaphthalene","0.952","g/l","U","0.547","MDL","TARGET",,"4.76","RDL","YES",-99,,,"1050","1","0.9
52",
"TF1-MW-1005-083017","EPA 200/6000 methods","RES","SC38733-
04","ESAI","NA","Preservation","0","N/A",-99,"NA","TARGET",,-99,"NA","YES",-99,,,"1","1",-99","Field
Preserved; pH<2 confirmed"

"TF1-MW-1005-083017","EPA 245.1/7470A","RES","SC38733-04","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.00020",
"TF1-MW-1005-083017","EPA 300.0","RES","SC38733-04","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.009","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",
"TF1-MW-1005-083017","EPA 300.0","RES","SC38733-04","ESAI","14808-79-8","Sulfate as SO4","21.5","mg/l","0.307","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",
"TF1-MW-1005-083017","EPA 300.0","RES","SC38733-04","ESAI","16887-00-6","Chloride","8.43","mg/l","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","1763-23-1","Perfluorooctanesulfonate","490","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","1763-23-1L","13C8-PFOS","43","ng/l","-99","NA","SUR","91","-99","NA","YES","48","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","2058-94-8L","13C7-PFUnDA","42","ng/l","-99","NA","SUR","85","-99","NA","YES","50","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","2706-90-3","Perfluoropentanoic Acid","16","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","2706-90-3L","13C5-PFPeA","45","ng/l","-99","NA","SUR","90","-99","NA","YES","50","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","307-24-4","Perfluorohexanoic acid","37","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","307-24-4L","13C5-PFHxA","56","ng/l","-99","NA","SUR","112","-99","NA","YES","50","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","307-55-1L","13C2-PFDoDA","38","ng/l","-99","NA","SUR","77","-99","NA","YES","50","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","335-67-1","Perfluorooctanoic acid","15","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","335-67-1L","13C8-PFOA","50","ng/l","-99","NA","SUR","100","-99","NA","YES","50","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","335-76-2","Perfluorodecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","335-76-2L","13C6-PFDA","46","ng/l","-99","NA","SUR","92","-99","NA","YES","50","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","355-46-4","Perfluorohexanesulfonate","150","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","355-46-4L","13C3-PFHxS","48","ng/l","-99","NA","SUR","102","-99","NA","YES","47","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","375-22-4","Perfluorobutanoic Acid","11","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","375-22-4L","13C4-PFBA","43","ng/l","-99","NA","SUR","86","-99","NA","YES","50","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","375-73-5","Perfluorobutanesulfonate","18","ng/l","0.8","MDL","TARGET","3","RDL","YES","-99","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","375-73-5L","13C3-PFBS","47","ng/l","-99","NA","SUR","101","-99","NA","YES","46","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","375-85-9","Perfluoroheptanoic acid","7","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","375-85-9L","13C4-PFHpA","46","ng/l","-99","NA","SUR","93","-99","NA","YES","50","-99",
"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","375-92-8","Perfluoroheptanesulfonate","8","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99",

"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","375-95-1","Perfluorononanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","375-95-1L","13C9-PFNA","50","ng/l","-99","NA","SUR","100","-99","NA","YES","50","-99"

"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","376-06-7L","13C2-PFTeDA","34","ng/l","-99","NA","SUR","69","-99","NA","YES","50","-99"

"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","EPA 537 Modified","RES","SC38733-04","ESAI","754-91-6L","13C8-PFOSA","13","ng/l","-99","NA","SUR","26","-99","NA","YES","50","-99"

"TF1-MW-1005-083017","Mod EPA 3C/SOP RSK-175","RES","SC38733-04","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20"

"TF1-MW-1005-083017","Mod EPA 3C/SOP RSK-175","RES","SC38733-04","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00"

"TF1-MW-1005-083017","SM18-22 5210B","RES","SC38733-04","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD4, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97"

"TF1-MW-1005-083017","SM2320B (97, 11)","RES","SC38733-04","ESAI","NA","Total Alkalinity","25.6","mg/l CaCO3","0.524","MDL","TARGET","2.00","RDL","YES","-99","100","50","1.50"

"TF1-MW-1005-083017","SM5310B (00, 11)","RES","SC38733-04","ESAI","NA","Total Organic Carbon","0.504","mg/l","J","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500"

"TF1-MW-1005-083017","SW846 6010C","RES","SC38733-04","ESAI","7429-90-5","Aluminum","0.0341","mg/l","J","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500"

"TF1-MW-1005-083017","SW846 6010C","RES","SC38733-04","ESAI","7439-89-6","Iron","6.29","mg/l","0.0089","MDL","TARGET","0.0300","RDL","YES","-99","50","50","0.0300"

"TF1-MW-1005-083017","SW846 6010C","RES","SC38733-04","ESAI","7439-95-4","Magnesium","2.63","mg/l","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100"

"TF1-MW-1005-083017","SW846 6010C","RES","SC38733-04","ESAI","7440-09-7","Potassium","1.24","mg/l","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250"

"TF1-MW-1005-083017","SW846 6010C","RES","SC38733-04","ESAI","7440-23-5","Sodium","6.02","mg/l","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250"

"TF1-MW-1005-083017","SW846 6010C","RES","SC38733-04","ESAI","7440-70-2","Calcium","6.63","mg/l","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7439-92-1","Lead","0","mg/l","0.00011","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7439-96-5","Manganese","3.08","mg/l","0.00090","MDL","TARGET","0.0040","RDL","YES","-99","-99","-99"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7439-98-7","Molybdenum","0","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7440-02-0","Nickel","0.0262","mg/l","0.0010","MDL","TARGET","0.0040","RDL","YES","-99","-99","-99"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7440-22-4","Silver","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7440-28-0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7440-36-0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7440-38-2","Arsenic","0.0232","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99","-99"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7440-39-3","Barium","0.0106","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99","-99"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7440-41-7","Beryllium","0","mg/l","0.000071","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7440-43-9","Cadmium","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-MW-1005-083017","SW-846 6020A","RES","SC38733-04","ESAI","7440-47-3","Chromium","0","mg/l","0.00087","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

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
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
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
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
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
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
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
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
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
























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























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1","Dieldrin","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES",-99,,1040,10,0.019",
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"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES",-99,,5,5,0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","107-06-2","1,2-
Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES",-99,,5,5,1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES",-99,,5,5,2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","108-87-
2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES",-99,,5,5,2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","108-88-
3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES",-99,,5,5,1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","108-90-
7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES",-99,,5,5,0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","110-82-
7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES",-99,,5,5,2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","120-82-1","1,2,4-
Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES",-99,,5,5,1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","124-48-
1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES",-99,,5,5,0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","127-18-
4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES",-99,,5,5,1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","156-59-2","cis-1,2-
Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES",-99,,5,5,0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","156-60-5","trans-1,2-
Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES",-99,,5,5,1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","1634-04-4","Methyl tert-butyl

ether","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","17060-07-0","1,2-Dichloroethane-
d4","47.1","g/l","-99","NA","SUR","94","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","179601-23-1","m,p-
Xylene","0.8","g/l","J","0.8","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","1868-53-
7","Dibromofluoromethane","48.8","g/l","-99","NA","SUR","98","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","2037-26-5","Toluene-
d8","51.4","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","g/l","-99","NA","ISTD","103","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","g/l","-99","NA","ISTD","104","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","460-00-4","4-
Bromofluorobenzene","52.4","g/l","-99","NA","SUR","105","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","462-06-
6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","109","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","541-73-1","1,3-
Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","56-23-5","Carbon
tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","591-78-6","2-Hexanone
(MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","67-64-
1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","67-66-
3","Chloroform","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","71-43-
2","Benzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","71-55-6","1,1,1-
Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","74-83-
9","Bromomethane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","74-87-
3","Chloromethane","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","74-97-
5","Bromochloromethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-00-
3","Chloroethane","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-01-4","Vinyl
chloride","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-09-2","Methylene
chloride","2.0","g/l","U","0.7","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-15-0","Carbon
disulfide","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-25-
2","Bromoform","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-27-
4","Bromodichloromethane","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-34-3","1,1-
Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-35-4","1,1-
Dichloroethene","1.0","g/l","U","0.7","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-69-4","Trichlorofluoromethane
(Freon 11)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",

"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","78-87-5","1,2-Dichloropropane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","78-93-3","2-Butanone (MEK)","2.0","g/l","U","1.1","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","79-00-5","1,1,2-Trichloroethane","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","79-01-6","Trichloroethene","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","79-20-9","Methyl acetate","2.0","g/l","U","0.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","87-61-6","1,2,3-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","95-47-6","o-Xylene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","95-50-1","1,2-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1005-083017","SW846 8260C","RES","SC38733-04","ESAI","98-82-8","Isopropylbenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","1146-65-2","Naphthalene-d8","40.0","g/ml","-99","NA","ISTD","144","-99","NA","YES","40.0","1050","1","-99",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","120-12-7","Anthracene","0.952","g/l","U","0.579","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","129-00-0","Pyrene","0.952","g/l","U","0.581","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","163","-99","NA","YES","40.0","1050","1","-99",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","150","-99","NA","YES","40.0","1050","1","-99",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","1520-96-3","Perylene-d12","40.0","g/ml","-99","NA","ISTD","113","-99","NA","YES","40.0","1050","1","-99",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","1718-51-0","Terphenyl-d14","31.9","g/l","-99","NA","SUR","67","-99","NA","YES","47.6","1050","1","-99",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","129","-99","NA","YES","40.0","1050","1","-99",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","191-24-2","Benzo (g,h,i) perylene","0.952","g/l","U","0.505","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","0.952","g/l","U","0.552","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","205-99-2","Benzo (b) fluoranthene","0.952","g/l","U","0.416","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","206-44-0","Fluoranthene","0.952","g/l","U","0.608","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","207-08-9","Benzo (k) fluoranthene","0.952","g/l","U","0.457","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","208-96-8","Acenaphthylene","0.952","g/l","U","0.650","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","218-01-

9","Chrysene","0.952","g/l","U","0.507","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","321-60-8","2-
Fluorobiphenyl","23.4","g/l","-99","NA","SUR","49","-99","NA","YES","47.6","1050","1","-99",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","4165-60-0","Nitrobenzene-
d5","26.0","g/l","-99","NA","SUR","55","-99","NA","YES","47.6","1050","1","-99",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","50-32-8","Benzo (a)
pyrene","0.952","g/l","U","0.535","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","53-70-3","Dibenzo (a,h)
anthracene","0.952","g/l","U","0.429","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","56-55-3","Benzo (a)
anthracene","0.952","g/l","U","0.510","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","83-32-
9","Acenaphthene","0.952","g/l","U","0.658","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.9
52",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","85-01-
8","Phenanthrene","0.952","g/l","U","0.558","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.95
2",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","86-73-
7","Fluorene","0.952","g/l","U","0.583","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","90-12-0","1-
Methylnaphthalene","0.952","g/l","U","0.698","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.9
52",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","91-20-
3","Naphthalene","0.952","g/l","U","0.652","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.952
",
"TF1-MW-1005-083017","SW846 8270D","RES","SC38733-04","ESAI","91-57-6","2-
Methylnaphthalene","0.952","g/l","U","0.547","MDL","TARGET","4.76","RDL","YES","-99","1050","1","0.9
52",
"TF1-MW-1005-083017DUP","EPA 245.1/7470A","RES","1715599-DUP1","ESAI","7439-97-
6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","TF1-MW-
1005-083017","20","20","0.00020",
"TF1-MW-1005-083017DUP","EPA 300.0","RES","1714974-DUP2","ESAI","14797-55-8","Nitrate as
N","0.100","mg/l","U","0.009","MDL","TARGET","0.100","RDL","YES","-99","TF1-MW-1005-
083017","5","5","0.100",
"TF1-MW-1005-083017DUP","EPA 300.0","RES","1714974-DUP2","ESAI","14808-79-8","Sulfate as
SO4","21.7","mg/l","0.307","MDL","TARGET","0.9","1.00","RDL","YES","-99","TF1-MW-1005-
083017","5","5","1.00",
"TF1-MW-1005-083017DUP","EPA 300.0","RES","1714974-DUP2","ESAI","16887-00-
6","Chloride","8.44","mg/l","0.0897","MDL","TARGET","0.2","1.00","RDL","YES","-99","TF1-MW-1005-
083017","5","5","0.100",
"TF1-MW-1005-083017DUP","Mod EPA 3C/SOP RSK-175","RES","1715514-DUP1","ESAI","74-82-
8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","TF1-MW-1005-
083017","10","10","2.20",
"TF1-MW-1005-083017DUP","Mod EPA 3C/SOP RSK-175","RES","1715514-DUP1","ESAI","74-84-
0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","TF1-MW-1005-
083017","10","10","5.00",
"TF1-MW-1005-083017DUP","SM2320B (97, 11)","RES","1715035-DUP1","ESAI","NA","Total
Alkalinity","25.8","mg/l CaCO3","0.524","MDL","TARGET","0.6","2.00","RDL","YES","-99","TF1-MW-1005-
083017","100","50","1.50",
"TF1-MW-1005-083017DUP","SM5310B (00, 11)","RES","1715538-DUP1","ESAI","NA","Total Organic
Carbon","0.568","mg/l","J","0.238","MDL","TARGET","12","1.00","RDL","YES","-99","TF1-MW-1005-
083017","40","40","0.500",
"TF1-MW-1005-083017DUP","SW846 6010C","RES","1715597-DUP1","ESAI","7429-90-
5","Aluminum","0.0333","mg/l","J","0.0206","MDL","TARGET","2","0.0500","RDL","YES","-99","TF1-MW-
1005-083017","50","50","0.0500",
"TF1-MW-1005-083017DUP","SW846 6010C","RES","1715597-DUP1","ESAI","7439-89-
6","Iron","6.38","mg/l","0.0089","MDL","TARGET","2","0.0300","RDL","YES","-99","TF1-MW-1005-


083017","50","50","0.0300",
"TF1-MW-1005-083017DUP","SW846 6010C","RES","1715597-DUP1","ESAI","7439-95-4","Magnesium","2.63","mg/l","0.0088","MDL","TARGET","0.04","0.0200","RDL","YES","-99","TF1-MW-1005-083017","50","50","0.0100",
"TF1-MW-1005-083017DUP","SW846 6010C","RES","1715597-DUP1","ESAI","7440-09-7","Potassium","1.25","mg/l","0.120","MDL","TARGET","1","1.00","RDL","YES","-99","TF1-MW-1005-083017","50","50","0.250",
"TF1-MW-1005-083017DUP","SW846 6010C","RES","1715597-DUP1","ESAI","7440-23-5","Sodium","6.08","mg/l","0.0785","MDL","TARGET","0.9","0.500","RDL","YES","-99","TF1-MW-1005-083017","50","50","0.250",
"TF1-MW-1005-083017DUP","SW846 6010C","RES","1715597-DUP1","ESAI","7440-70-2","Calcium","6.75","mg/l","0.0142","MDL","TARGET","2","0.200","RDL","YES","-99","TF1-MW-1005-083017","50","50","0.0500",
"TF1-MW-1005-083017MS","EPA 245.1/7470A","RES","1715599-MS1","ESAI","7439-97-6","Mercury","0.00461","mg/l","0.00013","MDL","SPIKE","92","0.00020","RDL","YES","0.00500","TF1-MW-1005-083017","20","20","0.00020",
"TF1-MW-1005-083017MS","EPA 300.0","RES","1714974-MS2","ESAI","14797-55-8","Nitrate as N","0.799","mg/l","0.009","MDL","SPIKE","100","0.100","RDL","YES","0.800","TF1-MW-1005-083017","5","5","0.100",
"TF1-MW-1005-083017MS","EPA 300.0","RES","1714974-MS2","ESAI","14808-79-8","Sulfate as SO4","29.5","mg/l","0.307","MDL","SPIKE","100","1.00","RDL","YES","8.00","TF1-MW-1005-083017","5","5","1.00",
"TF1-MW-1005-083017MS","EPA 300.0","RES","1714974-MS2","ESAI","16887-00-6","Chloride","16.6","mg/l","0.0897","MDL","SPIKE","103","1.00","RDL","YES","8.00","TF1-MW-1005-083017","5","5","0.100",
"TF1-MW-1005-083017MS","SM2320B (97, 11)","RES","1715035-MS1","ESAI","NA","Total Alkalinity","47.4","mg/l CaCO3","0.524","MDL","SPIKE","87","2.00","RDL","YES","25.0","TF1-MW-1005-083017","100","50","1.50",
"TF1-MW-1005-083017MS","SM5310B (00, 11)","RES","1715538-MS1","ESAI","NA","Total Organic Carbon","6.49","mg/l","0.238","MDL","SPIKE","120","1.00","RDL","YES","5.00","TF1-MW-1005-083017","40","40","0.500",
"TF1-MW-1005-083017MS","SW846 6010C","RES","1715597-MS1","ESAI","7429-90-5","Aluminum","2.55","mg/l","0.0206","MDL","SPIKE","101","0.0500","RDL","YES","2.50","TF1-MW-1005-083017","50","50","0.0500",
"TF1-MW-1005-083017MS","SW846 6010C","RES","1715597-MS1","ESAI","7439-89-6","Iron","8.66","mg/l","0.0089","MDL","SPIKE","95","0.0300","RDL","YES","2.50","TF1-MW-1005-083017","50","50","0.0300",
"TF1-MW-1005-083017MS","SW846 6010C","RES","1715597-MS1","ESAI","7439-95-4","Magnesium","5.01","mg/l","0.0088","MDL","SPIKE","95","0.0200","RDL","YES","2.50","TF1-MW-1005-083017","50","50","0.0100",
"TF1-MW-1005-083017MS","SW846 6010C","RES","1715597-MS1","ESAI","7440-09-7","Potassium","25.7","mg/l","0.120","MDL","SPIKE","98","1.00","RDL","YES","25.0","TF1-MW-1005-083017","50","50","0.250",
"TF1-MW-1005-083017MS","SW846 6010C","RES","1715597-MS1","ESAI","7440-23-5","Sodium","18.1","mg/l","0.0785","MDL","SPIKE","96","0.500","RDL","YES","12.5","TF1-MW-1005-083017","50","50","0.250",
"TF1-MW-1005-083017MS","SW846 6010C","RES","1715597-MS1","ESAI","7440-70-2","Calcium","19.0","mg/l","0.0142","MDL","SPIKE","99","0.200","RDL","YES","12.5","TF1-MW-1005-083017","50","50","0.0500",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","1024-57-3","Heptachlor epoxide","0.419","mg/l","0.015","MDL","SPIKE","87","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","1024-57-3","Heptachlor epoxide [2C]","0.445","mg/l","0.014","MDL","SPIKE","93","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","1031-07-8","Endosulfan sulfate","0.456","mg/l","0.019","MDL","SPIKE","95","0.038","RDL","YES","0.481","TF1-MW-1005-


083017","1040","10","0.019",
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[2C]","0.458","◆g/l","0.016","MDL","SPIKE","95","0.038","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","10386-84-2","4,4-DB-
Octafluorobiphenyl (Sr)","0.241","◆g/l","-99","NA","SUR","125","-99","NA","YES","0.192","TF1-MW-1005-
083017","1040","10","-99",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","10386-84-2","4,4-DB-
Octafluorobiphenyl (Sr) [2C]","0.253","◆g/l","-99","NA","SUR","131","-99","NA","YES","0.192","TF1-MW-
1005-083017","1040","10","-99",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","15972-60-
8","Alachlor","0.518","◆g/l","0.018","MDL","SPIKE","108","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","15972-60-8","Alachlor
[2C]","0.467","◆g/l","0.017","MDL","SPIKE","97","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.226","◆g/l","-99","NA","SUR","118","-99","NA","YES","0.192","TF1-MW-1005-
083017","1040","10","-99",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","2051-24-3","Decachlorobiphenyl
(Sr) [2C]","0.224","◆g/l","-99","NA","SUR","116","-99","NA","YES","0.192","TF1-MW-1005-
083017","1040","10","-99",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","309-00-
2","Aldrin","0.375","◆g/l","0.015","MDL","SPIKE","78","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","309-00-2","Aldrin
[2C]","0.410","◆g/l","0.018","MDL","SPIKE","85","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","319-84-6","alpha-
BHC","0.395","◆g/l","0.011","MDL","SPIKE","82","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","319-84-6","alpha-BHC
[2C]","0.383","◆g/l","0.017","MDL","SPIKE","80","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","319-85-7","beta-
BHC","0.430","◆g/l","0.014","MDL","SPIKE","89","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","319-85-7","beta-BHC
[2C]","0.451","◆g/l","0.018","MDL","SPIKE","94","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","319-86-8","delta-
BHC","0.422","◆g/l","0.015","MDL","SPIKE","88","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","319-86-8","delta-BHC
[2C]","0.422","◆g/l","0.019","MDL","SPIKE","88","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","33213-65-9","Endosulfan
II","0.446","◆g/l","0.019","MDL","SPIKE","93","0.038","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","33213-65-9","Endosulfan II
[2C]","0.459","◆g/l","0.015","MDL","SPIKE","95","0.038","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","50-29-3","4,4'-DDT
(p,p')","0.477","◆g/l","0.017","MDL","SPIKE","99","0.038","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.029",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","50-29-3","4,4'-DDT (p,p')
[2C]","0.438","◆g/l","0.021","MDL","SPIKE","91","0.038","RDL","YES","0.481","TF1-MW-1005-


083017","1040","10","0.029",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","5103-71-9","alpha-Chlordane","0.427","◆g/l","0.015","MDL","SPIKE","89","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","5103-71-9","alpha-Chlordane [2C]","0.465","◆g/l","0.016","MDL","SPIKE","97","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","5103-74-2","Chlordane (gamma) (trans)","0.410","◆g/l","0.015","MDL","SPIKE","85","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","5103-74-2","Chlordane (gamma) (trans) [2C]","0.450","◆g/l","0.014","MDL","SPIKE","94","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","53494-70-5","Endrin ketone","0.461","◆g/l","0.017","MDL","SPIKE","96","0.038","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","53494-70-5","Endrin ketone [2C]","0.453","◆g/l","0.017","MDL","SPIKE","94","0.038","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","58-89-9","gamma-BHC (Lindane)","0.421","◆g/l","0.017","MDL","SPIKE","88","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.447","◆g/l","0.017","MDL","SPIKE","93","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","60-57-1","Dieldrin","0.422","◆g/l","0.016","MDL","SPIKE","88","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","60-57-1","Dieldrin [2C]","0.460","◆g/l","0.018","MDL","SPIKE","96","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","72-20-8","Endrin","0.470","◆g/l","0.018","MDL","SPIKE","98","0.038","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","72-20-8","Endrin [2C]","0.529","◆g/l","0.019","MDL","SPIKE","110","0.038","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","72-43-5","Methoxychlor","0.562","◆g/l","0.018","MDL","SPIKE","117","0.038","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","72-43-5","Methoxychlor [2C]","0.466","◆g/l","0.018","MDL","SPIKE","97","0.038","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","72-54-8","4,4'-DDD (p,p')","0.419","◆g/l","0.018","MDL","SPIKE","87","0.038","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","72-54-8","4,4'-DDD (p,p') [2C]","0.464","◆g/l","0.017","MDL","SPIKE","97","0.038","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","72-55-9","4,4'-DDE (p,p')","0.420","◆g/l","0.017","MDL","SPIKE","87","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","72-55-9","4,4'-DDE (p,p') [2C]","0.467","◆g/l","0.017","MDL","SPIKE","97","0.019","RDL","YES","0.481","TF1-MW-1005-083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","7421-93-4","Endrin aldehyde","0.504","◆g/l","0.018","MDL","SPIKE","105","0.038","RDL","YES","0.481","TF1-MW-1005-


083017","1040","10","0.019",
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[2C]","0.512","◆g/l","0.017","MDL","SPIKE","107","0.038","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","76-44-
8","Heptachlor","0.400","◆g/l","0.019","MDL","SPIKE","83","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","76-44-8","Heptachlor
[2C]","0.423","◆g/l","0.019","MDL","SPIKE","88","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","◆g/ml","-99","NA","ISTD","105","-99","NA","YES","10.0","TF1-MW-1005-
083017","1040","10","-99",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS) [2C]","0.020","◆g/ml","-99","NA","ISTD","95","-99","NA","YES","10.0","TF1-MW-1005-
083017","1040","10","-99",
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I","0.424","◆g/l","0.016","MDL","SPIKE","88","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8081B","RES","1715010-MS1","ESAI","959-98-8","Endosulfan I
[2C]","0.461","◆g/l","0.015","MDL","SPIKE","96","0.019","RDL","YES","0.481","TF1-MW-1005-
083017","1040","10","0.019",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","100-41-
4","Ethylbenzene","21.0","◆g/l","-99","NA","SPIKE","104","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","100-42-
5","Styrene","21.8","◆g/l","-99","NA","SPIKE","109","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","10061-01-5","cis-1,3-
Dichloropropene","19.8","◆g/l","-99","NA","SPIKE","99","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","10061-02-6","trans-1,3-
Dichloropropene","20.1","◆g/l","-99","NA","SPIKE","101","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","106-46-7","1,4-
Dichlorobenzene","19.0","◆g/l","-99","NA","SPIKE","95","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","21.9","◆g/l","-99","NA","SPIKE","109","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","107-06-2","1,2-
Dichloroethane","21.6","◆g/l","-99","NA","SPIKE","108","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","19.7","◆g/l","-99","NA","SPIKE","99","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","108-87-
2","Methylcyclohexane","23.1","◆g/l","-99","NA","SPIKE","116","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","108-88-
3","Toluene","21.8","◆g/l","-99","NA","SPIKE","109","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","108-90-
7","Chlorobenzene","20.3","◆g/l","-99","NA","SPIKE","102","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","110-82-
7","Cyclohexane","21.2","◆g/l","-99","NA","SPIKE","106","-99","NA","YES","20.0","TF1-MW-1005-


083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","120-82-1","1,2,4-
Trichlorobenzene","17.9","g/l","-99","NA","SPIKE","89","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","124-48-
1","Dibromochloromethane","19.9","g/l","-99","NA","SPIKE","100","-99","NA","YES","20.0","TF1-MW-
1005-083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","127-18-
4","Tetrachloroethene","22.4","g/l","-99","NA","SPIKE","112","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","156-59-2","cis-1,2-
Dichloroethene","21.6","g/l","-99","NA","SPIKE","108","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","156-60-5","trans-1,2-
Dichloroethene","22.6","g/l","-99","NA","SPIKE","113","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","1634-04-4","Methyl tert-butyl
ether","23.4","g/l","-99","NA","SPIKE","117","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
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d4","48.9","g/l","-99","NA","SUR","98","-99","NA","YES","50.0","TF1-MW-1005-083017","1","5","-99",
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Xylene","21.0","g/l","-99","NA","SPIKE","104","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
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7","Dibromofluoromethane","49.8","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","TF1-MW-1005-
083017","1","5","-99",
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d8","52.3","g/l","-99","NA","SUR","105","-99","NA","YES","50.0","TF1-MW-1005-083017","1","5","-99",
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d4","50.0","g/l","-99","NA","ISTD","101","-99","NA","YES","50.0","TF1-MW-1005-083017","1","5","-99",
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Bromofluorobenzene","52.8","g/l","-99","NA","SUR","106","-99","NA","YES","50.0","TF1-MW-1005-
083017","1","5","-99",
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6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","102","-99","NA","YES","50.0","TF1-MW-1005-
083017","1","5","-99",
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Dichlorobenzene","21.0","g/l","-99","NA","SPIKE","105","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
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tetrachloride","21.0","g/l","-99","NA","SPIKE","105","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
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(MBK)","20.2","g/l","-99","NA","SPIKE","101","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
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1","Acetone","21.3","g/l","-99","NA","SPIKE","106","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","67-66-
3","Chloroform","21.4","g/l","-99","NA","SPIKE","107","-99","NA","YES","20.0","TF1-MW-1005-
083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","71-43-
2","Benzene","21.8","g/l","-99","NA","SPIKE","109","-99","NA","YES","20.0","TF1-MW-1005-
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
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
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
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
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
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
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
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","75-15-0","Carbon disulfide","20.8","g/l","-99","NA","SPIKE","104","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",


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
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
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
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
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","20.7","g/l","-99","NA","SPIKE","103","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","14.7","g/l","-99","NA","SPIKE","74","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","22.5","g/l","-99","NA","SPIKE","112","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","78-87-5","1,2-Dichloropropane","20.7","g/l","-99","NA","SPIKE","104","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","78-93-3","2-Butanone (MEK)","17.6","g/l","-99","NA","SPIKE","88","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

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6","Trichloroethene","21.6","g/l","-99","NA","SPIKE","108","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","79-20-9","Methyl acetate","22.2","g/l","-99","NA","SPIKE","111","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
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"TF1-MW-1005-083017MS","SW846 8260C","RES","1715197-MS1","ESAI","98-82-8","Isopropylbenzene","20.8","g/l","-99","NA","SPIKE","104","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","1146-65-2","Naphthalene-d8","40.0","g/ml","-99","NA","ISTD","189","-99","NA","YES","40.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","120-12-7","Anthracene","20.7","g/l","QC2","0.608","MDL","SPIKE","41","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","129-00-0","Pyrene","23.6","g/l","QM7","0.610","MDL","SPIKE","47","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","151","-99","NA","YES","40.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","188","-99","NA","YES","40.0","TF1-MW-1005-083017","1000","1","-99",
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"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","1718-51-0","Terphenyl-d14","33.3","g/l","-99","NA","SUR","67","-99","NA","YES","50.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","193","-99","NA","YES","40.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","191-24-2","Benzo (g,h,i) perylene","25.5","g/l","0.530","MDL","SPIKE","51","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","28.2","g/l","0.580","MDL","SPIKE","56","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","205-99-2","Benzo (b) fluoranthene","28.7","g/l","0.437","MDL","SPIKE","57","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","206-44-

0","Fluoranthene","24.4","◆g/l","QM7","0.638","MDL","SPIKE","49","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","207-08-9","Benzo (k) fluoranthene","24.6","◆g/l","QM7","0.480","MDL","SPIKE","49","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","208-96-8","Acenaphthylene","25.5","◆g/l","0.683","MDL","SPIKE","51","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","218-01-9","Chrysene","23.7","◆g/l","QM7","0.532","MDL","SPIKE","47","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","321-60-8","2-Fluorobiphenyl","35.3","◆g/l","-99","NA","SUR","71","-99","NA","YES","50.0","TF1-MW-1005-083017","1000","1","-99",
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"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","85-01-8","Phenanthrene","22.3","◆g/l","QC2","0.586","MDL","SPIKE","45","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","86-73-7","Fluorene","27.9","◆g/l","0.612","MDL","SPIKE","56","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","90-12-0","1-Methylnaphthalene","28.6","◆g/l","0.733","MDL","SPIKE","57","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","91-20-3","Naphthalene","19.4","◆g/l","QM7","0.685","MDL","SPIKE","39","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MS","SW846 8270D","RES","1715009-MS1","ESAI","91-57-6","2-Methylnaphthalene","24.9","◆g/l","0.574","MDL","SPIKE","50","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
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"TF1-MW-1005-083017MSD","EPA 300.0","RES","1714974-MSD2","ESAI","14797-55-8","Nitrate as N","0.804","mg/l","0.009","MDL","SPIKE","100","0.6","0.100","RDL","YES","0.800","TF1-MW-1005-083017","5","5","0.100",
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Alkalinity", "45.8", "mg/l CaCO3", "0.524", "MDL", "SPIKE", "81", "3", "2.00", "RDL", "YES", "25.0", "TF1-MW-1005-083017", "100", "50", "1.50",
"TF1-MW-1005-083017MSD", "SM5310B (00, 11)", "RES", "1715538-MSD1", "ESAI", "NA", "Total Organic Carbon", "6.52", "mg/l", "0.238", "MDL", "SPIKE", "120", "0.6", "1.00", "RDL", "YES", "5.00", "TF1-MW-1005-083017", "40", "40", "0.500",
"TF1-MW-1005-083017MSD", "SW846 6010C", "RES", "1715597-MSD1", "ESAI", "7429-90-5", "Aluminum", "2.63", "mg/l", "0.0206", "MDL", "SPIKE", "104", "3", "0.0500", "RDL", "YES", "2.50", "TF1-MW-1005-083017", "50", "50", "0.0500",
"TF1-MW-1005-083017MSD", "SW846 6010C", "RES", "1715597-MSD1", "ESAI", "7439-89-6", "Iron", "9.08", "mg/l", "0.0089", "MDL", "SPIKE", "112", "5", "0.0300", "RDL", "YES", "2.50", "TF1-MW-1005-083017", "50", "50", "0.0300",
"TF1-MW-1005-083017MSD", "SW846 6010C", "RES", "1715597-MSD1", "ESAI", "7439-95-4", "Magnesium", "5.15", "mg/l", "0.0088", "MDL", "SPIKE", "101", "3", "0.0200", "RDL", "YES", "2.50", "TF1-MW-1005-083017", "50", "50", "0.0100",
"TF1-MW-1005-083017MSD", "SW846 6010C", "RES", "1715597-MSD1", "ESAI", "7440-09-7", "Potassium", "26.2", "mg/l", "0.120", "MDL", "SPIKE", "100", "2", "1.00", "RDL", "YES", "25.0", "TF1-MW-1005-083017", "50", "50", "0.250",
"TF1-MW-1005-083017MSD", "SW846 6010C", "RES", "1715597-MSD1", "ESAI", "7440-23-5", "Sodium", "18.5", "mg/l", "0.0785", "MDL", "SPIKE", "100", "2", "0.500", "RDL", "YES", "12.5", "TF1-MW-1005-083017", "50", "50", "0.250",
"TF1-MW-1005-083017MSD", "SW846 6010C", "RES", "1715597-MSD1", "ESAI", "7440-70-2", "Calcium", "19.8", "mg/l", "0.0142", "MDL", "SPIKE", "105", "4", "0.200", "RDL", "YES", "12.5", "TF1-MW-1005-083017", "50", "50", "0.0500",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "1024-57-3", "Heptachlor epoxide", "0.460", "g/l", "0.015", "MDL", "SPIKE", "95", "9", "0.019", "RDL", "YES", "0.485", "TF1-MW-1005-083017", "1030", "10", "0.019",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "1024-57-3", "Heptachlor epoxide [2C]", "0.490", "g/l", "0.014", "MDL", "SPIKE", "101", "10", "0.019", "RDL", "YES", "0.485", "TF1-MW-1005-083017", "1030", "10", "0.019",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "1031-07-8", "Endosulfan sulfate", "0.507", "g/l", "0.019", "MDL", "SPIKE", "104", "11", "0.039", "RDL", "YES", "0.485", "TF1-MW-1005-083017", "1030", "10", "0.019",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "1031-07-8", "Endosulfan sulfate [2C]", "0.497", "g/l", "0.016", "MDL", "SPIKE", "102", "8", "0.039", "RDL", "YES", "0.485", "TF1-MW-1005-083017", "1030", "10", "0.019",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "10386-84-2", "4,4-DB-Octafluorobiphenyl (Sr)", "0.261", "g/l", "-99", "NA", "SUR", "134", "-99", "NA", "YES", "0.194", "TF1-MW-1005-083017", "1030", "10", "-99",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "10386-84-2", "4,4-DB-Octafluorobiphenyl (Sr) [2C]", "0.251", "g/l", "-99", "NA", "SUR", "129", "-99", "NA", "YES", "0.194", "TF1-MW-1005-083017", "1030", "10", "-99",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "15972-60-8", "Alachlor", "0.563", "g/l", "0.018", "MDL", "SPIKE", "116", "8", "0.019", "RDL", "YES", "0.485", "TF1-MW-1005-083017", "1030", "10", "0.019",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "15972-60-8", "Alachlor [2C]", "0.493", "g/l", "0.017", "MDL", "SPIKE", "102", "5", "0.019", "RDL", "YES", "0.485", "TF1-MW-1005-083017", "1030", "10", "0.019",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "2051-24-3", "Decachlorobiphenyl (Sr)", "0.228", "g/l", "-99", "NA", "SUR", "117", "-99", "NA", "YES", "0.194", "TF1-MW-1005-083017", "1030", "10", "-99",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "2051-24-3", "Decachlorobiphenyl (Sr) [2C]", "0.205", "g/l", "-99", "NA", "SUR", "105", "-99", "NA", "YES", "0.194", "TF1-MW-1005-083017", "1030", "10", "-99",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "309-00-2", "Aldrin", "0.413", "g/l", "0.015", "MDL", "SPIKE", "85", "10", "0.019", "RDL", "YES", "0.485", "TF1-MW-1005-083017", "1030", "10", "0.019",
"TF1-MW-1005-083017MSD", "SW846 8081B", "RES", "1715010-MSD1", "ESAI", "309-00-2", "Aldrin

[2C]","0.453","◆g/l","0.018","MDL","SPIKE","93","10","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","319-84-6","alpha-BHC","0.437","◆g/l","0.011","MDL","SPIKE","90","10","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","319-84-6","alpha-BHC [2C]","0.421","◆g/l","0.017","MDL","SPIKE","87","9","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","319-85-7","beta-BHC","0.469","◆g/l","0.014","MDL","SPIKE","97","9","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","319-85-7","beta-BHC [2C]","0.493","◆g/l","0.019","MDL","SPIKE","101","9","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","319-86-8","delta-BHC","0.453","◆g/l","0.015","MDL","SPIKE","93","7","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","319-86-8","delta-BHC [2C]","0.473","◆g/l","0.019","MDL","SPIKE","98","12","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","33213-65-9","Endosulfan II","0.502","◆g/l","0.019","MDL","SPIKE","103","12","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","33213-65-9","Endosulfan II [2C]","0.497","◆g/l","0.015","MDL","SPIKE","102","8","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","50-29-3","4,4'-DDT (p,p')","0.541","◆g/l","0.017","MDL","SPIKE","112","13","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.029",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","50-29-3","4,4'-DDT (p,p') [2C]","0.481","◆g/l","0.021","MDL","SPIKE","99","9","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.029",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","5103-71-9","alpha-Chlordane","0.468","◆g/l","0.015","MDL","SPIKE","96","9","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","5103-71-9","alpha-Chlordane [2C]","0.496","◆g/l","0.017","MDL","SPIKE","102","7","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","5103-74-2","Chlordane (gamma)(trans)","0.450","◆g/l","0.016","MDL","SPIKE","93","9","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","5103-74-2","Chlordane (gamma)(trans) [2C]","0.494","◆g/l","0.014","MDL","SPIKE","102","9","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","53494-70-5","Endrin ketone","0.511","◆g/l","0.017","MDL","SPIKE","105","10","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","53494-70-5","Endrin ketone [2C]","0.471","◆g/l","0.018","MDL","SPIKE","97","4","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","58-89-9","gamma-BHC (Lindane)","0.463","◆g/l","0.017","MDL","SPIKE","95","10","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.488","◆g/l","0.017","MDL","SPIKE","100","9","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","60-57-

1","Dieldrin","0.465","◆g/l","0.017","MDL","SPIKE","96","10","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","60-57-1","Dieldrin
[2C]","0.507","◆g/l","0.018","MDL","SPIKE","104","10","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","72-20-8","Endrin","0.526","◆g/l","0.019","MDL","SPIKE","108","11","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","72-20-8","Endrin
[2C]","0.572","◆g/l","0.019","MDL","SPIKE","118","8","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","72-43-5","Methoxychlor","0.586","◆g/l","0.018","MDL","SPIKE","121","4","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","72-43-5","Methoxychlor
[2C]","0.510","◆g/l","0.018","MDL","SPIKE","105","9","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","72-54-8","4,4'-DDD (p,p')","0.474","◆g/l","0.018","MDL","SPIKE","98","12","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","72-54-8","4,4'-DDD (p,p')
[2C]","0.505","◆g/l","0.017","MDL","SPIKE","104","8","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","72-55-9","4,4'-DDE (p,p')","0.463","◆g/l","0.017","MDL","SPIKE","95","10","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","72-55-9","4,4'-DDE (p,p')
[2C]","0.505","◆g/l","0.017","MDL","SPIKE","104","8","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","7421-93-4","Endrin aldehyde","0.558","◆g/l","0.019","MDL","SPIKE","115","10","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","7421-93-4","Endrin aldehyde
[2C]","0.548","◆g/l","0.017","MDL","SPIKE","113","7","0.039","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","76-44-8","Heptachlor","0.439","◆g/l","0.019","MDL","SPIKE","90","9","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","76-44-8","Heptachlor
[2C]","0.467","◆g/l","0.019","MDL","SPIKE","96","10","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","◆g/ml","-99","NA","ISTD","105","-99","NA","YES","10.0","TF1-MW-1005-083017","1030","10","-99",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.020","◆g/ml","-99","NA","ISTD","100","-99","NA","YES","10.0","TF1-MW-1005-083017","1030","10","-99",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","959-98-8","Endosulfan I","0.466","◆g/l","0.016","MDL","SPIKE","96","9","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8081B","RES","1715010-MSD1","ESAI","959-98-8","Endosulfan I
[2C]","0.511","◆g/l","0.015","MDL","SPIKE","105","10","0.019","RDL","YES","0.485","TF1-MW-1005-083017","1030","10","0.019",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","100-41-4","Ethylbenzene","20.8","◆g/l","-99","NA","SPIKE","103","0.9","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","100-42-

5","Styrene","21.3","g/l","-99","NA","SPIKE","107","2","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","10061-01-5","cis-1,3-Dichloropropene","20.7","g/l","-99","NA","SPIKE","103","4","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","10061-02-6","trans-1,3-Dichloropropene","21.1","g/l","-99","NA","SPIKE","105","5","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","106-46-7","1,4-Dichlorobenzene","18.4","g/l","-99","NA","SPIKE","92","3","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","106-93-4","1,2-Dibromoethane (EDB)","22.9","g/l","-99","NA","SPIKE","115","5","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","107-06-2","1,2-Dichloroethane","21.0","g/l","-99","NA","SPIKE","105","3","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","19.7","g/l","-99","NA","SPIKE","98","0.2","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","108-87-2","Methylcyclohexane","21.3","g/l","-99","NA","SPIKE","107","8","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","108-88-3","Toluene","22.5","g/l","-99","NA","SPIKE","112","3","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","108-90-7","Chlorobenzene","20.1","g/l","-99","NA","SPIKE","100","1","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","110-82-7","Cyclohexane","21.2","g/l","-99","NA","SPIKE","106","0.05","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","120-82-1","1,2,4-Trichlorobenzene","19.2","g/l","-99","NA","SPIKE","96","7","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","124-48-1","Dibromochloromethane","22.0","g/l","-99","NA","SPIKE","110","10","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","127-18-4","Tetrachloroethene","21.6","g/l","-99","NA","SPIKE","108","4","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","156-59-2","cis-1,2-Dichloroethene","22.1","g/l","-99","NA","SPIKE","110","2","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","156-60-5","trans-1,2-Dichloroethene","22.9","g/l","-99","NA","SPIKE","115","2","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","1634-04-4","Methyl tert-butyl ether","24.2","g/l","-99","NA","SPIKE","121","3","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","17060-07-0","1,2-Dichloroethane-d4","49.6","g/l","-99","NA","SUR","99","-99","NA","YES","50.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","179601-23-1","m,p-Xylene","20.9","g/l","-99","NA","SPIKE","104","0.3","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",
"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","1868-53-

7", "Dibromofluoromethane", "50.7", "g/l", "-99", "NA", "SUR", "101", "-99", "NA", "YES", "50.0", "TF1-MW-1005-083017", "1", "5", "-99",
"TF1-MW-1005-083017MSD", "SW846 8260C", "RES", "1715197-MSD1", "ESAI", "2037-26-5", "Toluene-d8", "52.8", "g/l", "-99", "NA", "SUR", "106", "-99", "NA", "YES", "50.0", "TF1-MW-1005-083017", "1", "5", "-99",
"TF1-MW-1005-083017MSD", "SW846 8260C", "RES", "1715197-MSD1", "ESAI", "3114-55-4", "Chlorobenzene-d5", "50.0", "g/l", "-99", "NA", "ISTD", "101", "-99", "NA", "YES", "50.0", "TF1-MW-1005-083017", "1", "5", "-99",
"TF1-MW-1005-083017MSD", "SW846 8260C", "RES", "1715197-MSD1", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-d4", "50.0", "g/l", "-99", "NA", "ISTD", "102", "-99", "NA", "YES", "50.0", "TF1-MW-1005-083017", "1", "5", "-99",
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"TF1-MW-1005-083017MSD", "SW846 8260C", "RES", "1715197-MSD1", "ESAI", "56-23-5", "Carbon tetrachloride", "20.2", "g/l", "-99", "NA", "SPIKE", "101", "4", "-99", "NA", "YES", "20.0", "TF1-MW-1005-083017", "1", "5", "-99",
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"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","75-27-4","Bromodichloromethane","23.2","◆g/l","-99","NA","SPIKE","116","5","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","75-34-3","1,1-Dichloroethane","23.7","◆g/l","-99","NA","SPIKE","118","5","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","75-35-4","1,1-Dichloroethene","20.6","◆g/l","-99","NA","SPIKE","103","0.4","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

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"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","14.3","◆g/l","-99","NA","SPIKE","71","3","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","20.2","◆g/l","-99","NA","SPIKE","101","11","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

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"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","79-00-5","1,1,2-Trichloroethane","22.1","◆g/l","-99","NA","SPIKE","111","3","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","79-01-6","Trichloroethene","21.5","◆g/l","-99","NA","SPIKE","108","0.5","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","79-20-9","Methyl acetate","19.9","◆g/l","-99","NA","SPIKE","100","11","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","20.6","◆g/l","-99","NA","SPIKE","103","0.6","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",




















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"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","95-47-6","o-Xylene","21.1","◆g/l","-99","NA","SPIKE","105","2","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","95-50-1","1,2-Dichlorobenzene","19.9","◆g/l","-99","NA","SPIKE","99","0.3","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","20.5","◆g/l","-99","NA","SPIKE","102","8","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

"TF1-MW-1005-083017MSD","SW846 8260C","RES","1715197-MSD1","ESAI","98-82-8","Isopropylbenzene","20.4","◆g/l","-99","NA","SPIKE","102","2","-99","NA","YES","20.0","TF1-MW-1005-083017","1","5","-99",

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"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","120-12-7","Anthracene","18.7","g/l","QC2","0.608","MDL","SPIKE","37","10","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","129-00-0","Pyrene","21.3","g/l","QM7","0.610","MDL","SPIKE","43","11","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","156","-99","NA","YES","40.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","151","-99","NA","YES","40.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","1520-96-3","Perylene-d12","40.0","g/ml","-99","NA","ISTD","104","-99","NA","YES","40.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","1718-51-0","Terphenyl-d14","31.9","g/l","-99","NA","SUR","64","-99","NA","YES","50.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","128","-99","NA","YES","40.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","191-24-2","Benzo (g,h,i) perylene","17.7","g/l","QC2, QR","0.530","MDL","SPIKE","35","36","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","19.4","g/l","QM7, QR","0.580","MDL","SPIKE","39","37","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","205-99-2","Benzo (b) fluoranthene","26.0","g/l","QM7","0.437","MDL","SPIKE","52","10","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","206-44-0","Fluoranthene","20.8","g/l","QM7","0.638","MDL","SPIKE","42","16","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","207-08-9","Benzo (k) fluoranthene","28.2","g/l","QM7","0.480","MDL","SPIKE","56","13","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","208-96-8","Acenaphthylene","18.5","g/l","QM7, QR","0.683","MDL","SPIKE","37","32","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","218-01-9","Chrysene","21.5","g/l","QM7","0.532","MDL","SPIKE","43","9","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","321-60-8","2-Fluorobiphenyl","25.6","g/l","-99","NA","SUR","51","-99","NA","YES","50.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","4165-60-0","Nitrobenzene-d5","27.0","g/l","-99","NA","SUR","54","-99","NA","YES","50.0","TF1-MW-1005-083017","1000","1","-99",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","50-32-8","Benzo (a) pyrene","25.1","g/l","QM7","0.562","MDL","SPIKE","50","5","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",
"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","53-70-3","Dibenzo (a,h) anthracene","21.8","g/l","QM7, QR","0.450","MDL","SPIKE","44","26","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",

"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","56-55-3","Benzo (a) anthracene","21.2","g/l","QM7","0.536","MDL","SPIKE","42","14","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",


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"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","86-73-7","Fluorene","20.1","g/l","QM7, QR","0.612","MDL","SPIKE","40","32","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",

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"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","91-20-3","Naphthalene","17.5","g/l","QM7","0.685","MDL","SPIKE","35","10","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",

"TF1-MW-1005-083017MSD","SW846 8270D","RES","1715009-MSD1","ESAI","91-57-6","2-Methylnaphthalene","22.0","g/l","0.574","MDL","SPIKE","44","12","5.00","RDL","YES","50.0","TF1-MW-1005-083017","1000","1","1.00",

"TF1-MW-1005-083017PS","EPA 245.1/7470A","RES","1715599-PS1","ESAI","7439-97-6","Mercury","0.00437","mg/l","0.00013","MDL","SPIKE","87","0.00020","RDL","YES","0.00500","TF1-MW-1005-083017","20","20","0.00020",

"TF1-MW-1005-083017PS","SW846 6010C","RES","1715597-PS1","ESAI","7429-90-5","Aluminum","2.51","mg/l","0.0206","MDL","SPIKE","99","0.0500","RDL","YES","2.50","TF1-MW-1005-083017","50","50","0.0500",

"TF1-MW-1005-083017PS","SW846 6010C","RES","1715597-PS1","ESAI","7439-89-6","Iron","8.63","mg/l","0.0089","MDL","SPIKE","94","0.0300","RDL","YES","2.50","TF1-MW-1005-083017","50","50","0.0300",

"TF1-MW-1005-083017PS","SW846 6010C","RES","1715597-PS1","ESAI","7439-95-4","Magnesium","5.01","mg/l","0.0088","MDL","SPIKE","95","0.0200","RDL","YES","2.50","TF1-MW-1005-083017","50","50","0.0100",

"TF1-MW-1005-083017PS","SW846 6010C","RES","1715597-PS1","ESAI","7440-09-7","Potassium","25.5","mg/l","0.120","MDL","SPIKE","97","1.00","RDL","YES","25.0","TF1-MW-1005-083017","50","50","0.250",

"TF1-MW-1005-083017PS","SW846 6010C","RES","1715597-PS1","ESAI","7440-23-5","Sodium","17.9","mg/l","0.0785","MDL","SPIKE","95","0.500","RDL","YES","12.5","TF1-MW-1005-083017","50","50","0.250",

"TF1-MW-1005-083017PS","SW846 6010C","RES","1715597-PS1","ESAI","7440-70-2","Calcium","19.0","mg/l","0.0142","MDL","SPIKE","99","0.200","RDL","YES","12.5","TF1-MW-1005-083017","50","50","0.0500",

"TF1-MW-1007-083017","EPA 200/6000 methods","RES","SC38733-01","ESAI","NA","Preservation","0","N/A","-99","NA","TARGET","-99","NA","YES","-99","1","1","-99","Field Preserved; pH<2 confirmed"

"TF1-MW-1007-083017","EPA 245.1/7470A","RES","SC38733-01","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.00020",

"TF1-MW-1007-083017","EPA 300.0","RES","SC38733-01","ESAI","14797-55-8","Nitrate as N","0.707","mg/l","0.009","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",

"TF1-MW-1007-083017","EPA 300.0","RES","SC38733-01","ESAI","14808-79-8","Sulfate as SO4","9.91","mg/l","0.307","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",

"TF1-MW-1007-083017","EPA 300.0","RES","SC38733-01","ESAI","16887-00-6","Chloride","27.3","mg/l","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",

"TF1-MW-1007-083017","EPA 537 Modified","RES","SC38733-01","ESAI","1763-23-1","Perfluorooctanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"

"TF1-MW-1007-083017","EPA 537 Modified","RES","SC38733-01","ESAI","1763-23-1L","13C8-

PFOS", "29", "ng/l", "-99", "NA", "SUR", "61", "-99", "NA", "YES", "48", "-99",
 "TF1-MW-1007-083017", "EPA 537 Modified", "RES", "SC38733-01", "ESAI", "2058-94-8", "Perfluoroundecanoic
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 "TF1-MW-1007-083017", "EPA 537 Modified", "RES", "SC38733-01", "ESAI", "2706-90-3", "Perfluoropentanoic
 Acid", "1", "ng/l", "Ja", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",
 "TF1-MW-1007-083017", "EPA 537 Modified", "RES", "SC38733-01", "ESAI", "2706-90-3L", "13C5-
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 "TF1-MW-1007-083017", "EPA 537 Modified", "RES", "SC38733-01", "ESAI", "307-24-4", "Perfluorohexanoic
 acid", "1", "ng/l", "Ja", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",
 "TF1-MW-1007-083017", "EPA 537 Modified", "RES", "SC38733-01", "ESAI", "307-24-4L", "13C5-
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 "TF1-MW-1007-083017", "EPA 537 Modified", "RES", "SC38733-01", "ESAI", "335-76-2", "Perfluorodecanoic
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 Acid", "0", "ng/l", "3", "MDL", "TARGET", "10", "RDL", "YES", "-99", "-99", "<"
 "TF1-MW-1007-083017", "EPA 537 Modified", "RES", "SC38733-01", "ESAI", "375-22-4L", "13C4-
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"TF1-MW-1007-083017","Mod EPA 3C/SOP RSK-175","RES","SC38733-01","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20",
"TF1-MW-1007-083017","Mod EPA 3C/SOP RSK-175","RES","SC38733-01","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00",
"TF1-MW-1007-083017","SM18-22 5210B","RES","SC38733-01","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD4, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",
"TF1-MW-1007-083017","SM2320B (97, 11)","RES","SC38733-01","ESAI","NA","Total Alkalinity","19.7","mg/l CaCO3","0.524","MDL","TARGET","2.00","RDL","YES","-99","100","50","1.50",
"TF1-MW-1007-083017","SM5310B (00, 11)","RES","SC38733-01","ESAI","NA","Total Organic Carbon","0.469","mg/l","J","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500",
"TF1-MW-1007-083017","SW846 6010C","RES","SC38733-01","ESAI","7429-90-5","Aluminum","0.0577","mg/l","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500",
"TF1-MW-1007-083017","SW846 6010C","RES","SC38733-01","ESAI","7439-89-6","Iron","0.0813","mg/l","0.0089","MDL","TARGET","0.0300","RDL","YES","-99","50","50","0.0300",
"TF1-MW-1007-083017","SW846 6010C","RES","SC38733-01","ESAI","7439-95-4","Magnesium","2.32","mg/l","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100",
"TF1-MW-1007-083017","SW846 6010C","RES","SC38733-01","ESAI","7440-09-7","Potassium","2.60","mg/l","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250",
"TF1-MW-1007-083017","SW846 6010C","RES","SC38733-01","ESAI","7440-23-5","Sodium","15.4","mg/l","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250",
"TF1-MW-1007-083017","SW846 6010C","RES","SC38733-01","ESAI","7440-70-2","Calcium","10.2","mg/l","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7439-92-1","Lead","0","mg/l","0.00011","MDL","TARGET","0.0020","RDL","YES","-99","-99","<",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7439-96-5","Manganese","0.0334","mg/l","0.00090","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7439-98-7","Molybdenum","0","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99","<",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-02-0","Nickel","0.0045","mg/l","0.0010","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-22-4","Silver","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-28-0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99","<",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-36-0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99","<",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-38-2","Arsenic","0","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99","<",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-39-3","Barium","0.0062","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-41-7","Beryllium","0","mg/l","0.000071","MDL","TARGET","0.0010","RDL","YES","-99","-99","<",
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"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-50-8","Copper","0.00086","mg/l","Ja","0.00054","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-62-2","Vanadium","0.0014","mg/l","0.00021","MDL","TARGET","0.0010","RDL","YES","-99","-99",
"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7440-66-6","Zinc","0.0136","mg/l","Ja","0.0039","MDL","TARGET","0.0300","RDL","YES","-99","-99",

"TF1-MW-1007-083017","SW-846 6020A","RES","SC38733-01","ESAI","7782-49-2","Selenium","0","mg/l","0.00050","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-MW-1007-083017","SW-846 8015B","RES","SC38733-01","ESAI","108-90-7","Chlorobenzene","0.011","mg/l","-99","NA","SUR","85","-99","NA","YES","0.012","-99",

"TF1-MW-1007-083017","SW-846 8015B","RES","SC38733-01","ESAI","84-15-1","Orthoterphenyl","0.012","mg/l","-99","NA","SUR","93","-99","NA","YES","0.013","-99",

"TF1-MW-1007-083017","SW-846 8015B","RES","SC38733-01","ESAI","PHCC8C44","C8-C44","0","mg/l","0.052","MDL","TARGET","0.21","RDL","YES","-99","-99","<0.21"

"TF1-MW-1007-083017","SW-846 8015B","RES","SC38733-01","ESAI","PHCE","Total TPH","0","mg/l","0.052","MDL","TARGET","0.21","RDL","YES","-99","-99","<0.21"

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","1024-57-3","Heptachlor epoxide","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","1031-07-8","Endosulfan sulfate","0.019","g/l","U","0.019","MDL","TARGET","0.038","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.218","g/l","-99","NA","SUR","113","-99","NA","YES","0.192","1040","10","-99",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","15972-60-8","Alachlor","0.019","g/l","U","0.018","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.224","g/l","-99","NA","SUR","116","-99","NA","YES","0.192","1040","10","-99",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","309-00-2","Aldrin","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","319-84-6","alpha-BHC","0.019","g/l","U","0.011","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","319-85-7","beta-BHC","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","319-86-8","delta-BHC","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","33213-65-9","Endosulfan II","0.019","g/l","U","0.019","MDL","TARGET","0.038","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","50-29-3","4,4'-DDT (p,p')","0.029","g/l","U","0.017","MDL","TARGET","0.038","RDL","YES","-99","1040","10","0.029",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","5103-71-9","alpha-Chlordane","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","5103-74-2","Chlordane (gamma) (trans)","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","53494-70-5","Endrin ketone","0.019","g/l","U","0.017","MDL","TARGET","0.038","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","57-74-9","Chlordane","0.063","g/l","U","0.049","MDL","TARGET","0.063","RDL","YES","-99","1040","10","0.063",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","58-89-9","gamma-BHC (Lindane)","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

"TF1-MW-1007-083017","SW846 8081B","RES","SC38733-01","ESAI","60-57-1","Dieldrin","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",

























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



























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"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","75-34-3","1,1-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","75-35-4","1,1-Dichloroethene","1.0","g/l","U","0.7","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","78-87-5","1,2-Dichloropropane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","78-93-3","2-Butanone (MEK)","2.0","g/l","U","1.1","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","79-00-5","1,1,2-Trichloroethane","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","79-01-6","Trichloroethene","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","79-20-9","Methyl

acetate","2.0","g/l","U","0.6","MDL","TARGET","5.0","RDL","YES",-99,"5","5","2.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES",-99,"5","5","0.5",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","87-61-6","1,2,3-
Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES",-99,"5","5","1.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","95-47-6","o-
Xylene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES",-99,"5","5","1.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","95-50-1","1,2-
Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES",-99,"5","5","0.5",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES",-99,"5","5","2.0",
"TF1-MW-1007-083017","SW846 8260C","RES","SC38733-01","ESAI","98-82-
8","Isopropylbenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES",-99,"5","5","1.0",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","1146-65-2","Naphthalene-
d8","40.0","g/ml","-99","NA","ISTD","136","-99","NA","YES","40.0","1040","1","-99",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","120-12-
7","Anthracene","0.962","g/l","U","0.585","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","129-00-
0","Pyrene","0.962","g/l","U","0.587","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","15067-26-2","Acenaphthene-
d10","40.0","g/ml","-99","NA","ISTD","152","-99","NA","YES","40.0","1040","1","-99",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","1517-22-2","Phenanthrene-
d10","40.0","g/ml","-99","NA","ISTD","143","-99","NA","YES","40.0","1040","1","-99",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","1520-96-3","Perylene-
d12","40.0","g/ml","-99","NA","ISTD","85","-99","NA","YES","40.0","1040","1","-99",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","1718-51-0","Terphenyl-
dl4","38.3","g/l","-99","NA","SUR","80","-99","NA","YES","48.1","1040","1","-99",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","1719-03-5","Chrysene-
d12","40.0","g/ml","-99","NA","ISTD","107","-99","NA","YES","40.0","1040","1","-99",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","191-24-2","Benzo (g,h,i)
perylene","0.962","g/l","U","0.510","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","0.962","g/l","U","0.558","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","205-99-2","Benzo (b)
fluoranthene","0.962","g/l","U","0.420","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","206-44-
0","Fluoranthene","0.962","g/l","U","0.613","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","207-08-9","Benzo (k)
fluoranthene","0.962","g/l","U","0.462","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","208-96-
8","Acenaphthylene","0.962","g/l","U","0.657","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","218-01-
9","Chrysene","0.962","g/l","U","0.512","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","321-60-8","2-
Fluorobiphenyl","24.6","g/l","-99","NA","SUR","51","-99","NA","YES","48.1","1040","1","-99",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","4165-60-0","Nitrobenzene-
d5","27.3","g/l","-99","NA","SUR","57","-99","NA","YES","48.1","1040","1","-99",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","50-32-8","Benzo (a)
pyrene","0.962","g/l","U","0.540","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","53-70-3","Dibenzo (a,h)
anthracene","0.962","g/l","U","0.433","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","56-55-3","Benzo (a)
anthracene","0.962","g/l","U","0.515","MDL","TARGET","4.81","RDL","YES",-99,"1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","83-32-

9","Acenaphthene","0.962","◆g/l","U","0.664","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","85-01-8","Phenanthrene","0.962","◆g/l","U","0.563","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","86-73-7","Fluorene","0.962","◆g/l","U","0.588","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","90-12-0","1-Methylnaphthalene","0.962","◆g/l","U","0.705","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","91-20-3","Naphthalene","0.962","◆g/l","U","0.659","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",
"TF1-MW-1007-083017","SW846 8270D","RES","SC38733-01","ESAI","91-57-6","2-Methylnaphthalene","0.962","◆g/l","U","0.552","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",
"TF1-MW-1007D-083017","EPA 200/6000 methods","RES","SC38733-02","ESAI","NA","Preservation","0","N/A","-99","NA","TARGET","-99","NA","YES","-99","1","1","-99","Field Preserved; pH<2 confirmed",
"TF1-MW-1007D-083017","EPA 245.1/7470A","RES","SC38733-02","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.00020",
"TF1-MW-1007D-083017","EPA 300.0","RES","SC38733-02","ESAI","14797-55-8","Nitrate as N","0.519","mg/l","0.009","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",
"TF1-MW-1007D-083017","EPA 300.0","RES","SC38733-02","ESAI","14808-79-8","Sulfate as SO4","10.3","mg/l","0.307","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",
"TF1-MW-1007D-083017","EPA 300.0","RES","SC38733-02","ESAI","16887-00-6","Chloride","23.9","mg/l","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","1763-23-1","Perfluorooctanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","1763-23-1L","13C8-PFOS","34","ng/l","-99","NA","SUR","70","-99","NA","YES","48","-99",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<",
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"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","2706-90-3","Perfluoropentanoic Acid","2","ng/l","Ja","0.5","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","2706-90-3L","13C5-PFPeA","33","ng/l","-99","NA","SUR","66","-99","NA","YES","50","-99",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","307-24-4","Perfluorohexanoic acid","2","ng/l","Ja","0.6","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","307-24-4L","13C5-PFHxA","43","ng/l","-99","NA","SUR","86","-99","NA","YES","50","-99",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","307-55-1L","13C2-PFDoDA","30","ng/l","-99","NA","SUR","61","-99","NA","YES","50","-99",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","335-67-1","Perfluorooctanoic acid","3","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","335-67-1L","13C8-PFOA","36","ng/l","-99","NA","SUR","72","-99","NA","YES","50","-99",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","335-76-2","Perfluorodecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",
"TF1-MW-1007D-083017","EPA 537 Modified","RES","SC38733-02","ESAI","335-76-2L","13C6-PFDA","44","ng/l","-99","NA","SUR","88","-99","NA","YES","50","-99",
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3", "Perfluorodecanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<"

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"TF1-MW-1007D-083017", "EPA 537 Modified", "RES", "SC38733-02", "ESAI", "375-85-9L", "13C4-PFHpA", "40", "ng/l", "-99", "NA", "SUR", "81", "-99", "NA", "YES", "50", "-99",

"TF1-MW-1007D-083017", "EPA 537 Modified", "RES", "SC38733-02", "ESAI", "375-92-8", "Perfluoroheptanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<"

"TF1-MW-1007D-083017", "EPA 537 Modified", "RES", "SC38733-02", "ESAI", "375-95-1", "Perfluorononanoic acid", "0", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"

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"TF1-MW-1007D-083017", "EPA 537 Modified", "RES", "SC38733-02", "ESAI", "376-06-7", "Perfluorotetradecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"

"TF1-MW-1007D-083017", "EPA 537 Modified", "RES", "SC38733-02", "ESAI", "376-06-7L", "13C2-PFTeDA", "27", "ng/l", "-99", "NA", "SUR", "55", "-99", "NA", "YES", "50", "-99",

"TF1-MW-1007D-083017", "EPA 537 Modified", "RES", "SC38733-02", "ESAI", "72629-94-8", "Perfluorotridecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"

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"TF1-MW-1007D-083017", "Mod EPA 3C/SOP RSK-175", "RES", "SC38733-02", "ESAI", "74-84-0", "Ethane", "5.00", "g/l", "U", "3.48", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "10", "10", "5.00",

"TF1-MW-1007D-083017", "SM18-22 5210B", "RES", "SC38733-02", "ESAI", "NA", "Biochemical Oxygen Demand (5-day)", "2.97", "mg/l", "BOD4, U", "2.74", "MDL", "TARGET", "3.00", "RDL", "YES", "-99", "300", "300", "2.97",

"TF1-MW-1007D-083017", "SM2320B (97, 11)", "RES", "SC38733-02", "ESAI", "NA", "Total Alkalinity", "11.7", "mg/l CaCO3", "0.524", "MDL", "TARGET", "2.00", "RDL", "YES", "-99", "100", "50", "1.50",

"TF1-MW-1007D-083017", "SM5310B (00, 11)", "RES", "SC38733-02", "ESAI", "NA", "Total Organic Carbon", "0.886", "mg/l", "J", "0.238", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "40", "40", "0.500",

"TF1-MW-1007D-083017", "SW846 6010C", "RES", "SC38733-02", "ESAI", "7429-90-5", "Aluminum", "0.0533", "mg/l", "0.0206", "MDL", "TARGET", "0.0500", "RDL", "YES", "-99", "50", "50", "0.0500",

"TF1-MW-1007D-083017", "SW846 6010C", "RES", "SC38733-02", "ESAI", "7439-89-6", "Iron", "0.0402", "mg/l", "0.0089", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "50", "50", "0.0300",

"TF1-MW-1007D-083017", "SW846 6010C", "RES", "SC38733-02", "ESAI", "7439-95-4", "Magnesium", "2.80", "mg/l", "0.0088", "MDL", "TARGET", "0.0200", "RDL", "YES", "-99", "50", "50", "0.0100",

"TF1-MW-1007D-083017", "SW846 6010C", "RES", "SC38733-02", "ESAI", "7440-09-7", "Potassium", "2.24", "mg/l", "0.120", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "50", "50", "0.250",





























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"TF1-MW-1007D-083017", "SW846 6010C", "RES", "SC38733-02", "ESAI", "7440-70-2", "Calcium", "6.72", "mg/l", "0.0142", "MDL", "TARGET", "0.200", "RDL", "YES", "-99", "50", "50", "0.0500",

"TF1-MW-1007D-083017", "SW-846 6020A", "RES", "SC38733-02", "ESAI", "7439-92-

1","Lead","0","mg/l","0.00011","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7439-96-
5","Manganese","0.0307","mg/l","0.00090","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7439-98-
7","Molybdenum","0","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-02-
0","Nickel","0.0064","mg/l","0.0010","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-22-
4","Silver","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-28-
0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-36-
0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-38-
2","Arsenic","0","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-39-
3","Barium","0.0063","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-41-
7","Beryllium","0","mg/l","0.000071","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-43-
9","Cadmium","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-47-
3","Chromium","0","mg/l","0.00087","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-48-
4","Cobalt","0.0012","mg/l","0.00016","MDL","TARGET","0.0010","RDL","YES","-99","-99",
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-50-
8","Copper","0.0029","mg/l","Ja","0.00054","MDL","TARGET","0.0040","RDL","YES","-99","-99",
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-62-
2","Vanadium","0","mg/l","0.00021","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7440-66-
6","Zinc","0.0093","mg/l","Ja","0.0039","MDL","TARGET","0.0300","RDL","YES","-99","-99",
"TF1-MW-1007D-083017","SW-846 6020A","RES","SC38733-02","ESAI","7782-49-
2","Selenium","0","mg/l","0.00050","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"
"TF1-MW-1007D-083017","SW-846 8015B","RES","SC38733-02","ESAI","108-90-
7","Chlorobenzene","0.010","mg/l","-99","NA","SUR","85","-99","NA","YES","0.012","-99",
"TF1-MW-1007D-083017","SW-846 8015B","RES","SC38733-02","ESAI","84-15-
1","Orthoterphenyl","0.011","mg/l","-99","NA","SUR","93","-99","NA","YES","0.012","-99",
"TF1-MW-1007D-083017","SW-846 8015B","RES","SC38733-02","ESAI","PHCC8C44","C8-
C44","0","mg/l","0.051","MDL","TARGET","0.20","RDL","YES","-99","-99","<0.20"
"TF1-MW-1007D-083017","SW-846 8015B","RES","SC38733-02","ESAI","PHCE","Total
TPH","0","mg/l","0.051","MDL","TARGET","0.20","RDL","YES","-99","-99","<0.20"
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","1024-57-3","Heptachlor
epoxide","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","1031-07-8","Endosulfan
sulfate","0.020","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","10386-84-2","4,4-DB-
Octafluorobiphenyl
(Sr)","0.192","g/l","-99","NA","SUR","98","-99","NA","YES","0.196","1020","10","-99",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","15972-60-
8","Alachlor","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.208","g/l","-99","NA","SUR","106","-99","NA","YES","0.196","1020","10","-99",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","309-00-
2","Aldrin","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","319-84-6","alpha-
BHC","0.020","g/l","U","0.011","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","319-85-7","beta-

BHC","0.020","g/l","U","0.014","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","319-86-8","delta-
BHC","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","33213-65-9","Endosulfan
II","0.020","g/l","U","0.020","MDL","TARGET","0.039","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","50-29-3","4,4'-DDT
(p,p')","0.029","g/l","U","0.017","MDL","TARGET","0.039","RDL","YES","-99","1020","10","0.029",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","5103-71-9","alpha-
Chlordane","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","53494-70-5","Endrin
ketone","0.020","g/l","U","0.017","MDL","TARGET","0.039","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","57-74-
9","Chlordane","0.064","g/l","U","0.050","MDL","TARGET","0.064","RDL","YES","-99","1020","10","0.064",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","58-89-9","gamma-BHC
(Lindane)","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","60-57-
1","Dieldrin","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","72-20-
8","Endrin","0.020","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","72-43-
5","Methoxychlor","0.020","g/l","U","0.018","MDL","TARGET","0.039","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","72-54-8","4,4'-DDD
(p,p')","0.020","g/l","U","0.018","MDL","TARGET","0.039","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","72-55-9","4,4'-DDE
(p,p')","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","7421-93-4","Endrin
aldehyde","0.020","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","76-44-
8","Heptachlor","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","8001-35-
2","Toxaphene","0.490","g/l","U","0.322","MDL","TARGET","0.490","RDL","YES","-99","1020","10","0.490",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","g/ml","-99","NA","ISTD","111","-99","NA","YES","10.0","1020","10","-99",
"TF1-MW-1007D-083017","SW846 8081B","RES","SC38733-02","ESAI","959-98-8","Endosulfan
I","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","100-41-
4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","100-42-
5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","10061-01-5","cis-1,3-
Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","10061-02-6","trans-1,3-
Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","106-46-7","1,4-
Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","107-06-2","1,2-
Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",

"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","17060-07-0","1,2-Dichloroethane-d4","51.2","g/l","-99","NA","SUR","102","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","179601-23-1","m,p-Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","1868-53-7","Dibromofluoromethane","51.1","g/l","-99","NA","SUR","102","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","2037-26-5","Toluene-d8","51.4","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","96","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","95","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","460-00-4","4-Bromofluorobenzene","50.8","g/l","-99","NA","SUR","102","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","98","-99","NA","YES","50.0","5","5","-99",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","56-23-5","Carbon tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","591-78-6","2-Hexanone (MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","74-83-9","Bromomethane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","74-87-3","Chloromethane","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","74-97-5","Bromochloromethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-MW-1007D-083017","SW846 8260C","RES","SC38733-02","ESAI","75-00-

3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "75-01-4", "Vinyl
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "75-09-2", "Methylene
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "75-15-0", "Carbon
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "75-25-
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "75-27-
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "75-34-3", "1,1-
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "75-35-4", "1,1-
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "75-69-4", "Trichlorofluoromethane
(Freon 11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "75-71-8", "Dichlorodifluoromethane
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "76-13-1", "1,1,2-
Trichlorotrifluoroethane (Freon
113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "78-87-5", "1,2-
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "78-93-3", "2-Butanone
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "79-00-5", "1,1,2-
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "79-01-
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "79-20-9", "Methyl
acetate", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "79-34-5", "1,1,2,2-
Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "87-61-6", "1,2,3-
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "95-47-6", "o-
Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "95-50-1", "1,2-
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "96-12-8", "1,2-Dibromo-3-
chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"TF1-MW-1007D-083017", "SW846 8260C", "RES", "SC38733-02", "ESAI", "98-82-
8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-MW-1007D-083017", "SW846 8270D", "RES", "SC38733-02", "ESAI", "1146-65-2", "Naphthalene-
d8", "40.0", "g/ml", "-99", "NA", "ISTD", "153", "-99", "NA", "YES", "40.0", "1030", "1", "-99",
"TF1-MW-1007D-083017", "SW846 8270D", "RES", "SC38733-02", "ESAI", "120-12-
7", "Anthracene", "0.971", "g/l", "U", "0.590", "MDL", "TARGET", "4.85", "RDL", "YES", "-99", "1030", "1", "0.971",
"TF1-MW-1007D-083017", "SW846 8270D", "RES", "SC38733-02", "ESAI", "129-00-
0", "Pyrene", "0.971", "g/l", "U", "0.592", "MDL", "TARGET", "4.85", "RDL", "YES", "-99", "1030", "1", "0.971",
"TF1-MW-1007D-083017", "SW846 8270D", "RES", "SC38733-02", "ESAI", "15067-26-2", "Acenaphthene-
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "164", "-99", "NA", "YES", "40.0", "1030", "1", "-99",
"TF1-MW-1007D-083017", "SW846 8270D", "RES", "SC38733-02", "ESAI", "1517-22-2", "Phenanthrene-
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "154", "-99", "NA", "YES", "40.0", "1030", "1", "-99",
"TF1-MW-1007D-083017", "SW846 8270D", "RES", "SC38733-02", "ESAI", "1520-96-3", "Perylene-
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "106", "-99", "NA", "YES", "40.0", "1030", "1", "-99",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","1718-51-0","Terphenyl-dl4","36.8","g/l","-99","NA","SUR","76","-99","NA","YES","48.5","1030","1","-99",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","125","-99","NA","YES","40.0","1030","1","-99",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","191-24-2","Benzo (g,h,i) perylene","0.971","g/l","U","0.515","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","0.971","g/l","U","0.563","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","205-99-2","Benzo (b) fluoranthene","0.971","g/l","U","0.424","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","206-44-0","Fluoranthene","0.971","g/l","U","0.619","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","207-08-9","Benzo (k) fluoranthene","0.971","g/l","U","0.466","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","208-96-8","Acenaphthylene","0.971","g/l","U","0.663","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","218-01-9","Chrysene","0.971","g/l","U","0.517","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","321-60-8","2-Fluorobiphenyl","26.8","g/l","-99","NA","SUR","55","-99","NA","YES","48.5","1030","1","-99",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","4165-60-0","Nitrobenzene-d5","29.6","g/l","-99","NA","SUR","61","-99","NA","YES","48.5","1030","1","-99",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","50-32-8","Benzo (a) pyrene","0.971","g/l","U","0.546","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","53-70-3","Dibenzo (a,h) anthracene","0.971","g/l","U","0.437","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","56-55-3","Benzo (a) anthracene","0.971","g/l","U","0.520","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","83-32-9","Acenaphthene","0.971","g/l","U","0.671","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","85-01-8","Phenanthrene","0.971","g/l","U","0.569","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","86-73-7","Fluorene","0.971","g/l","U","0.594","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","90-12-0","1-Methylnaphthalene","0.971","g/l","U","0.712","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","91-20-3","Naphthalene","0.971","g/l","U","0.665","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-MW-1007D-083017","SW846 8270D","RES","SC38733-02","ESAI","91-57-6","2-Methylnaphthalene","0.971","g/l","U","0.557","MDL","TARGET","4.85","RDL","YES","-99","1030","1","0.971",

"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",

"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",

"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",

"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",

"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",

"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","17060-07-0","1,2-Dichloroethane-d4","50.4","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","179601-23-1","m,p-Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","1868-53-7","Dibromofluoromethane","51.7","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","2037-26-5","Toluene-d8","51.5","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","96","-99","NA","YES","50.0","5","5","-99",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","95","-99","NA","YES","50.0","5","5","-99",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","460-00-4","4-Bromofluorobenzene","50.9","g/l","-99","NA","SUR","102","-99","NA","YES","50.0","5","5","-99",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","99","-99","NA","YES","50.0","5","5","-99",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","56-23-5","Carbon tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","591-78-6","2-Hexanone (MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",
"TF1-TB-083017","SW846 8260C","RES","SC38733-07","ESAI","74-83-

9", "Bromomethane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "74-87-
3", "Chloromethane", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "74-97-
5", "Bromochloromethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
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chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",
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Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "75-71-8", "Dichlorodifluoromethane
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "76-13-1", "1,1,2-Trichlorotrifluoroethane
(Freon 113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "78-87-5", "1,2-
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "78-93-3", "2-Butanone
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "79-00-5", "1,1,2-
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "79-01-
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "79-20-9", "Methyl
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Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",
"TF1-TB-083017", "SW846 8260C", "RES", "SC38733-07", "ESAI", "87-61-6", "1,2,3-
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",
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chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",
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8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",
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BLK1", "Method Bla", "-99", "EPA 300.0", "Gen Prep", "RES", "08/31/2017 14:00", "08/31/2017
15:04", "ESAI", "COA", "NA", "T", "1", "NA", "100", "1714974", "1714974", "1714974", "1714974", "SC38733", "08/3
1/2017 17:30", "10/18/2017 14:34",
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BS1", "LCS", "-99", "EPA 300.0", "Gen Prep", "RES", "08/31/2017 14:00", "08/31/2017
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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715009-BLK1","Aqueous","1715009-BLK1","Method Bla",-99,"SW846 8270D","SW846 3510C","RES","09/01/2017 08:00","09/13/2017 16:12","ESAI","COA","NA","NA","1","NA",,"100","1715009","1715009","1715009","1715009","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715009-BS1","Aqueous","1715009-BS1","LCS",-99,"SW846 8270D","SW846 3510C","RES","09/01/2017 08:00","09/13/2017 17:09","ESAI","COA","NA","NA","1","NA",,"100","1715009","1715009","1715009","1715009","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715009-BSD1","Aqueous","1715009-BSD1","LCS Dup",-99,"SW846 8270D","SW846 3510C","RES","09/01/2017 08:00","09/13/2017 17:37","ESAI","COA","NA","NA","1","NA",,"100","1715009","1715009","1715009","1715009","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715010-BLK1","Aqueous","1715010-BLK1","Method Bla",-99,"SW846 8081B","SW846 3510C","RES","09/01/2017 08:00","09/07/2017 23:04","ESAI","COA","NA","NA","1","NA",,"100","1715010","1715010","1715010","1715010","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715010-BS1","Aqueous","1715010-BS1","LCS",-99,"SW846 8081B","SW846 3510C","RES","09/01/2017 08:00","09/07/2017 23:21","ESAI","COA","NA","NA","1","NA",,"100","1715010","1715010","1715010","1715010","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715010-BSD1","Aqueous","1715010-BSD1","LCS Dup",-99,"SW846 8081B","SW846 3510C","RES","09/01/2017 08:00","09/07/2017 23:39","ESAI","COA","NA","NA","1","NA",,"100","1715010","1715010","1715010","1715010","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BLK1","Aqueous","1715035-BLK1","Method Bla",-99,"SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 14:18","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BLK2","Aqueous","1715035-BLK2","Method Bla",-99,"SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 15:23","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BLK3","Aqueous","1715035-BLK3","Method Bla",-99,"SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 16:15","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BLK4","Aqueous","1715035-BLK4","Method Bla",-99,"SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 16:36","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BS1","Aqueous","1715035-BS1","LCS",-99,"SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 14:19","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BS2","Aqueous","1715035-BS2","LCS",-99,"SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 15:25","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BS3","Aqueous","1715035-BS3","LCS",-99,"SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 16:16","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BS4","Aqueous","1715035-

BS4","LCS","-99","SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 16:38","ESAI","COA","NA","T","1","NA","100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-SRM1","Aqueous","1715035-SRM1","Reference","-99","SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 14:24","ESAI","COA","NA","T","1","NA","100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715070-BLK1","Aqueous","1715070-BLK1","Method Bla","-99","SM18-22 5210B","Gen Prep","RES","09/01/2017 09:00","09/07/2017 17:07","ESAI","COA","NA","T","1","NA","100","1715070","1715070","1715070","1715070","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715070-BLK2","Aqueous","1715070-BLK2","Method Bla","-99","SM18-22 5210B","Gen Prep","RES","09/01/2017 09:00","09/07/2017 17:07","ESAI","COA","NA","T","1","NA","100","1715070","1715070","1715070","1715070","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715070-BS1","Aqueous","1715070-BS1","LCS","-99","SM18-22 5210B","Gen Prep","RES","09/01/2017 09:00","09/07/2017 17:07","ESAI","COA","NA","T","1","NA","100","1715070","1715070","1715070","1715070","SC38733","08/31/2017 17:30","10/18/2017 14:34",
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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715070-SRM2","Aqueous","1715070-SRM2","Reference","-99","SM18-22 5210B","Gen Prep","RES","09/01/2017 09:00","09/07/2017 17:07","ESAI","COA","NA","T","1","NA","100","1715070","1715070","1715070","1715070","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715197-BLK1","Aqueous","1715197-BLK1","Method Bla","-99","SW846 8260C","SW846 5030 Water MS","RES","09/06/2017 06:00","09/06/2017 09:15","ESAI","COA","NA","NA","1","NA","100","1715197","1715197","1715197","1715197","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715197-BS1","Aqueous","1715197-BS1","LCS","-99","SW846 8260C","SW846 5030 Water MS","RES","09/06/2017 06:00","09/06/2017 10:13","ESAI","COA","NA","NA","1","NA","100","1715197","1715197","1715197","1715197","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715197-BSD1","Aqueous","1715197-BSD1","LCS Dup","-99","SW846 8260C","SW846 5030 Water MS","RES","09/06/2017 06:00","09/06/2017 10:42","ESAI","COA","NA","NA","1","NA","100","1715197","1715197","1715197","1715197","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715446-BLK1","Aqueous","1715446-BLK1","Method Bla","-99","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/08/2017 06:00","09/08/2017 10:48","ESAI","COA","NA","NA","1","NA","100","1715446","1715446","1715446","1715446","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715446-BS1","Aqueous","1715446-BS1","LCS","-99","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/08/2017 06:00","09/08/2017 10:26","ESAI","COA","NA","NA","1","NA","100","1715446","1715446","1715446","1715446","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715452-BLK1","Aqueous","1715452-BLK1","Method Bla","-99","SW846 8260C","SW846 5030 Water MS","RES","09/11/2017 06:00","09/11/2017 09:10","ESAI","COA","NA","NA","1","NA","100","1715452","1715452","1715452","1715452","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715452-BS1","Aqueous","1715452-BS1","LCS","-99","SW846 8260C","SW846 5030 Water MS","RES","09/11/2017 06:00","09/11/2017 10:07","ESAI","COA","NA","NA","1","NA","100","1715452","1715452","1715452","1715452","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715452-BSD1","Aqueous","1715452-BSD1","LCS Dup","-99","SW846 8260C","SW846 5030 Water MS","RES","09/11/2017 06:00","09/11/2017

10:36","ESAI","COA","NA","NA","1","NA",,"100","1715452","1715452","1715452","1715452","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715514-BLK1",,"Aqueous","1715514-BLK1","Method Bla",,"-99","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/11/2017 06:00","09/11/2017 09:32","ESAI","COA","NA","NA","1","NA",,"100","1715514","1715514","1715514","1715514","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715514-BS1",,"Aqueous","1715514-BS1","LCS",,"-99","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/11/2017 06:00","09/11/2017 09:00","ESAI","COA","NA","NA","1","NA",,"100","1715514","1715514","1715514","1715514","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715538-BLK1",,"Aqueous","1715538-BLK1","Method Bla",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/12/2017 08:12","09/12/2017 09:29","ESAI","COA","NA","T","1","NA",,"100","1715538","1715538","1715538","1715538","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715538-BS1",,"Aqueous","1715538-BS1","LCS",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/12/2017 08:12","09/12/2017 09:44","ESAI","COA","NA","T","1","NA",,"100","1715538","1715538","1715538","1715538","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715538-CCB1",,"Aqueous","1715538-CCB1","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/12/2017 08:12","09/12/2017 09:12","ESAI","COA","NA","T","1","NA",,"100","1715538","1715538","1715538","1715538","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715538-CCB2",,"Aqueous","1715538-CCB2","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/12/2017 08:12","09/12/2017 13:14","ESAI","COA","NA","T","1","NA",,"100","1715538","1715538","1715538","1715538","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715538-CCB3",,"Aqueous","1715538-CCB3","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/12/2017 08:12","09/12/2017 14:57","ESAI","COA","NA","T","1","NA",,"100","1715538","1715538","1715538","1715538","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715538-CCB4",,"Aqueous","1715538-CCB4","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/12/2017 08:12","09/12/2017 16:55","ESAI","COA","NA","T","1","NA",,"100","1715538","1715538","1715538","1715538","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715538-CCV1",,"Aqueous","1715538-CCV1","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/12/2017 08:12","09/12/2017 08:56","ESAI","COA","NA","T","1","NA",,"100","1715538","1715538","1715538","1715538","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715538-CCV2",,"Aqueous","1715538-CCV2","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/12/2017 08:12","09/12/2017 12:58","ESAI","COA","NA","T","1","NA",,"100","1715538","1715538","1715538","1715538","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715538-CCV3",,"Aqueous","1715538-CCV3","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/12/2017 08:12","09/12/2017 14:41","ESAI","COA","NA","T","1","NA",,"100","1715538","1715538","1715538","1715538","SC38733","08/31/2017 17:30","10/18/2017 14:34",
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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715597-BLK1",,"Aqueous","1715597-BLK1","Method Bla",,"-99","SW846 6010C","SW846 3005A","RES","09/16/2017 14:00","09/19/2017 07:51","ESAI","COA","NA","T","1","NA",,"100","1715597","1715597","1715597","1715597","SC38733","08/3

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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-FRB-083017","08/30/2017 10:52","H2O","SC38733-06","NM","SC38733","1.3","EPA 537 Modified","METHOD","RES","09/10/2017 08:15","09/12/2017 10:54","ESAI","COA","NA","NA","1","NA",,"-99","17250004","17250004","17250004","17250004","SC38733","08/31/2017 17:30","10/18/2017 14:34",
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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GZ-112-083017","08/30/2017 14:20","Aqueous","SC38733-03","NM","SC38733","1.3","EPA 245.1/7470A","EPA200/SW7000 Series","RES","09/16/2017 14:00","09/21/2017 18:02","ESAI","COA","NA","T","1","NA",,"100","1715599","1715599","1715599","1715599","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GZ-112-083017","08/30/2017 14:20","Aqueous","SC38733-03","NM","SC38733","1.3","EPA 300.0","Gen Prep","RES","08/31/2017 14:00","08/31/2017 19:53","ESAI","COA","NA","T","1","NA",,"100","1714974","1714974","1714974","1714974","SC38733","08/31/2017 17:30","10/18/2017 14:34",
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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GZ-112-083017","08/30/2017 14:20","Aqueous","SC38733-03","NM","SC38733","1.3","SM18-22 5210B","Gen Prep","RES","09/01/2017 09:00","09/07/2017 17:07","ESAI","COA","NA","T","1","NA",,"100","1715070","1715070","1715070","1715070","SC38733","08/31/2017 17:30","10/18/2017 14:34",
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04:00","ESAI","COA","NA","NA","1","NA",,"100","1715010","1715010","1715010","1715010","SC38733","08/
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31/2017 17:30","10/18/2017 14:34",
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/31/2017 17:30","10/18/2017 14:34",
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Prep","RES","09/02/2017 13:30","09/02/2017
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Series","RES","09/16/2017 14:00","09/21/2017
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1/2017 17:30","10/18/2017 14:34",
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Prep","RES","09/11/2017 06:00","09/11/2017
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08:00","09/15/2017
20:14","ESAI","COA","NA","NA","1","NA",,"100","1715009","1715009","1715009","1715009","SC38733","08/
31/2017 17:30","10/18/2017 14:34",
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21:45","10/12/2017

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11:47","ESAI","COA","NA","NA","1","NA",,"-99","172771063903","172771063903","172771063903","172771063903","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GZ-118-083017","08/30/2017 15:05","H2O","SC38733-05","NM","SC38733","1.3","SW-846 8015B","SW-846 3510C","RES","09/07/2017 08:00","09/08/2017
11:35","ESAI","COA","NA","NA","1","NA",,"-99","172490041A","172490041A","172490041A","172490041A","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-MW-1005-083017","08/30/2017 10:10","Aqueous","SC38733-04","NM","SC38733","1.3","EPA 200/6000 methods","Gen Prep","RES","09/02/2017 13:30","09/02/2017 13:30","ESAI","COA","NA","T","1","NA",,"100","1715096","1715096","1715096","1715096","SC38733","08/31/2017 17:30","10/18/2017 14:34",
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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-MW-1005-083017","08/30/2017 10:10","Aqueous","SC38733-04","NM","SC38733","1.3","EPA 300.0","Gen Prep","RES","08/31/2017 14:00","08/31/2017 18:49","ESAI","COA","NA","T","1","NA",,"100","1714974","1714974","1714974","1714974","SC38733","08/31/2017 17:30","10/18/2017 14:34",
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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-MW-1005-083017","08/30/2017 10:10","Aqueous","SC38733-04","NM","SC38733","1.3","SM18-22 5210B","Gen Prep","RES","09/01/2017 09:00","09/07/2017 17:07","ESAI","COA","NA","T","1","NA",,"100","1715070","1715070","1715070","1715070","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-MW-1005-083017","08/30/2017 10:10","Aqueous","SC38733-04","NM","SC38733","1.3","SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 16:03","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38733","08/31/2017 17:30","10/18/2017 14:34",
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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-MW-1005-083017","08/30/2017 10:10","Aqueous","SC38733-04","NM","SC38733","1.3","SW846 6010C","SW846 3005A","RES","09/16/2017 14:00","09/19/2017 08:27","ESAI","COA","NA","T","1","NA",,"100","1715597","1715597","1715597","1715597","SC38733","08/31/2017 17:30","10/18/2017 14:34",
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18:24","ESAI","COA","NA","NA","1","NA",,,,"100","1715197","1715197","1715197","1715197","SC38733","08/
31/2017 17:30","10/18/2017 14:34",
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08:00","09/15/2017
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31/2017 17:30","10/18/2017 14:34",
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10:10","H2O","SC38733-04","NM","SC38733","1.3","EPA 537 Modified","METHOD","RES","09/13/2017
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10:10","H2O","SC38733-04","NM","SC38733","1.3","SW-846 6020A","SW-846 3020A","RES","10/08/2017
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Prep","RES","09/01/2017 10:30","09/01/2017
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Prep","RES","09/12/2017 08:12","09/12/2017
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3005A","RES","09/16/2017 14:00","09/19/2017
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Series","RES","09/16/2017 14:00","09/21/2017
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MS","RES","09/06/2017 06:00","09/06/2017
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Series","RES","09/16/2017 14:00","09/21/2017
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3510C","RES","09/01/2017 08:00","09/15/2017
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3510C","RES","09/01/2017 08:00","09/08/2017
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Prep","RES","09/01/2017 10:30","09/01/2017
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Prep","RES","09/12/2017 08:12","09/12/2017
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3005A","RES","09/16/2017 14:00","09/19/2017
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Series","RES","09/16/2017 14:00","09/21/2017
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Series","RES","09/16/2017 14:00","09/21/2017
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Prep","RES","09/02/2017 13:30","09/02/2017
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Series","RES","09/16/2017 14:00","09/21/2017
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Prep","RES","09/08/2017 06:00","09/08/2017
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MS","RES","09/06/2017 09:20","09/06/2017
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Prep","RES","09/02/2017 13:30","09/02/2017
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Series","RES","09/16/2017 14:00","09/21/2017
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"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-MW-1007D-083017","08/30/2017 14:55","H2O","SC38733-02","NM","SC38733","1.3","EPA 537 Modified","METHOD","RES","09/10/2017 08:15","09/12/2017 09:32","ESAI","COA","NA","NA","1","NA",,,,"-99","17250004","17250004","17250004","17250004","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-MW-1007D-083017","08/30/2017 14:55","H2O","SC38733-02","NM","SC38733","1.3","SW-846 6020A","SW-846 3020A","RES","10/08/2017 21:45","10/12/2017 11:34","ESAI","COA","NA","NA","1","NA",,,,"-99","172771063903","172771063903","172771063903","172771063903","SC38733","08/31/2017 17:30","10/18/2017 14:34",
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-MW-1007D-083017","08/30/2017 14:55","H2O","SC38733-02","NM","SC38733","1.3","SW-846 8015B","SW-846 3510C","RES","09/07/2017 08:00","09/08/2017 09:46","ESAI","COA","NA","NA","1","NA",,,,"-99","172490041A","172490041A","172490041A","172490041A","SC38733","08/31/2017 17:30","10/18/2017 14:34",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-TB-083017","08/30/2017
08:00","Aqueous","SC38733-07","NM","SC38733","1.3","SW846 8260C","SW846 5030 Water
MS","RES","09/06/2017 09:20","09/06/2017
19:22","ESAI","COA","NA","NA","1","NA",,,,"100","1715197","1715197","1715197","1715197","SC38733","08/
31/2017 17:30","10/18/2017 14:34",



TETRA TECH

INTERNAL CORRESPONDENCE

TO: S. PARKER **DATE:** DECEMBER 29, 2017
FROM: LEIGH A. CIOFANI **COPIES:** DV FILE
SUBJECT: ORGANIC AND INORGANIC DATA VALIDATION – VOC / PAH / METHANE / ETHANE /
PEST / TPH / METALS / MISCELLANEOUS PARAMETERS / PFAS
NAVSTA NEWPORT – LEVEL 2A REVIEW
SAMPLE DELIVERY GROUP (SDG) SC38733

SAMPLES: 6 / Water / VOC

TF1-GZ-112-083017	TF1-GZ-118-083017	TF1-MW-1005-083017
TF1-MW-1007-083017	TF1-MW-1007D-083017	TF1-TB-083017

5 / Water / PAH / Methane / Ethane / PEST / TPH / Metals / Miscellaneous Parameters

TF1-GZ-112-083017	TF1-GZ-118-083017	TF1-MW-1005-083017
TF1-MW-1007-083017	TF1-MW-1007D-083017	

6 / Aqueous / PFAS

TF1-FRB-083017	TF1-GZ-112-083017	TF1-GZ-118-083017
TF1-MW-1005-083017	TF1-MW-1007-083017	TF1-MW-1007D-083017

OVERVIEW

The sample set for NAVSTA Newport, SDG SC38733, consists of five (5) aqueous environmental samples, one (1) trip blank, and one (1) field reagent blank. Aqueous samples were analyzed for volatile organic compounds (VOC), polycyclic aromatic hydrocarbons (PAH), methane, ethane, pesticides (PEST), total petroleum hydrocarbons (TPH) (C08-C44), metals, and miscellaneous parameters (alkalinity, biochemical oxygen demand [BOD], chloride, nitrate-N, sulfate, and total organic carbon [TOC]). No field duplicate pairs are included in this SDG.

The samples were collected by Tetra Tech on August 30, 2017, and analyzed by Eurofins Spectrum Analytical (analyses other than TPH and PFAS) and Eurofins Lancaster Laboratories Environmental (TPH and PFAS). Analyses were conducted in accordance with SW-846 Methods 8260C (VOC), 8270D (PAH), 8081B (PEST), 8015B (TPH), 6010C and 6020A (metals other than mercury), and 7470A/EPA 245.1 (mercury), as well as EPA methods Mod EPA 3C/SOP RSK-1 (methane and ethane), 300.0 (chloride, nitrate-N, sulfate), and 537 Modified (PFAS), and Standard Methods SM18-22 5210B (BOD), SM2320B (97,11) (alkalinity), and SM5310B (00,11) (TOC) analytical and reporting protocols.

A Level 2A review was performed on this SDG. The data contained in this SDG were validated with regard to the following parameters:

- *
 - Data Completeness
 - Holding Times/Sample Preservation
 - Laboratory Method/Preparation and Trip/Field Blank Results
- *
 - ICP Interference Recoveries
 - Surrogate Spike Recoveries
 - Laboratory Control Sample/Laboratory Control Sample Duplicate Results
- *
 - Matrix Spike/Matrix Spike Duplicate Results
 - Laboratory Duplicate Precision

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- * • ICP Serial Dilution 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.

HOLDING TIMES

The laboratory Form Is for TPH indicate that the holding time was not met for this analysis due to the samples being submitted to the laboratory with insufficient time remaining in the holding time. All TPH samples were extracted one day outside of the seven-day extraction holding time limit. Detected and non-detected TPH results were qualified as estimated (J and UJ, respectively) on this basis.

LABORATORY METHOD/PREPARATION BLANKS

TOC was detected in the blanks at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>< or > Reporting Limit (RL)</u>
TOC	0.3347 mg/L ⁽¹⁾	< RL
TOC	0.3159 mg/L ⁽²⁾	< RL

1 – Maximum concentration detected in calibration blank analyzed on 09/12/17 at 14:57 affecting all samples.

2 – Maximum concentration detected in calibration blank analyzed on 09/12/17 at 16:55 affecting samples TF1-MW-1007-083017, TF1-MW-1007D-083017, TF1-GZ-112-083017, and TF1-GZ-118-083017.

Detected results reported below the RL (i.e., the limit of quantitation [LOQ]) in samples TF1-MW-1005-083017, TF1-MW-1007-083017, and TF1-MW-1007D-083017 were qualified as non-detected (U). No action was necessary for detected results greater than the RL.

FIELD REAGENT BLANK RESULTS

The following PFAS analyte was detected in the field reagent blank TF1-FRB-083017 at the following concentration:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Perfluorodecanoic acid	2 ng/L	10 ng/L

An action level of 5x the maximum concentration detected in the field reagent blank was used to evaluate sample data for blank contamination. Sample dilution factors, if applicable, were considered in applying the action level. Detected results for perfluorodecanoic acid in samples TF1-GZ-112-083017 and TF1-MW-1007-083017 were less than the action level and were qualified as non-detected (U) due to field blank contamination.

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LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

The PAH laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) 1715009-BS1/BSD1 associated with preparation batch 1715009 had LCS percent recoveries (%Rs) that were less than the laboratory quality control limits for anthracene, benzo(g,h,i)perylene, and phenanthrene, an LCSD %R that was less than laboratory quality control limits for phenanthrene, and a relative percent difference (RPD) that is greater than the laboratory quality control limit for benzo(k)fluoranthene. All PAH samples are associated with this LCS/LCSD. Non-detected results for anthracene, benzo(g,h,i)perylene, and phenanthrene were qualified as estimated (UJ) in all samples. No action was necessary based on the high RPD for benzo(k)fluoranthene because results for this analyte were non-detected in the associated samples.

MATRIX SPIKE /MATRIX SPIKE DUPLICATE RESULTS

The PAH matrix spike (MS)/matrix spike duplicate (MSD) analysis performed on sample TF1-MW-1005-083017 and associated with batch 1715009 had the following noncompliances:

<u>Analyte</u>	<u>Noncompliance(s)</u>
Acenaphthene	Low MSD %R, High RPD
Acenaphthylene	Low MSD %R, High RPD
Anthracene	Low MS %R, Low MSD %R
Benzo(a)anthracene	Low MS %R, Low MSD %R
Benzo(a)pyrene	Low MS %R, Low MSD %R
Benzo(g,h,i)perylene	Low MSD %R, High RPD
Benzo(k)fluoranthene	Low MS %R, Low MSD %R
Chrysene	Low MS %R, Low MSD %R
Dibenzo(a,h)anthracene	Low MSD %R, High RPD
Fluoranthene	Low MS %R, Low MSD %R
Fluorene	Low MSD %R, High RPD
Indeno(1,2,3-cd)pyrene	Low MSD %R, High RPD
1-Methylnaphthalene	Low MSD %R, High RPD
Naphthalene	Low MS %R, Low MSD %R
Phenanthrene	Low MS %R, Low MSD %R
Pyrene	Low MS %R, Low MSD %R

Low MS and MSD %Rs were less than the laboratory quality control limits but greater than 10%. All PAH results in sample TF1-MW-1005-083017 were non-detected and were qualified as estimated (UJ) for the aforementioned analytes.

The metals (6020A analysis) MS/MSD performed on sample TF1-MW-1005-083017 had MS and MSD %Rs for antimony that were less than laboratory quality control limits (but greater than 30%). Non-detected results for antimony were qualified as estimated (UJ) in all samples.

The PFAS MS/MSD analysis performed on sample TF1-MW-1005-083017 and associated with batch 17250004 had the following noncompliances:

<u>Analyte</u>	<u>Noncompliance(s)</u>
Pentadecafluorooctanoic acid	High MS and MSD %R
Perfluorohexanoic acid	High MS and MSD %R
Perfluoroheptanoic acid	High MS %R
Perfluorobutanesulfonic acid	High MS and MSD %R
Perfluorobutanoic acid	High MS and MSD %R
Perfluoropentanoic acid	High MS and MSD %R

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Perfluoroheptanesulfonic acid
Perfluorodecane sulfonic acid

High MS %R
High RPD

High MS and MSD %Rs and RPDs were greater than the laboratory quality control limits. No action was necessary for perfluoroheptanoic acid and perfluoroheptanesulfonic acid because the MSD %Rs for these analytes were compliant and the RPDs were compliant. No action was necessary for perfluorodecane sulfonic acid because the MS and MSD %Rs were compliant and the result was nondetected. Detected results for the remaining analytes listed above were qualified as estimated (J) in sample TF1-MW-1005-083017.

NOTES

Detected results below the LOQ but above the method detection limit (MDL) were qualified as estimated (J).

Non-detected results were reported to the limit of detection (LOD).

The VOC analytes cyclohexane, ethylbenzene, and m+p-xylenes exceeded the instrument calibration range in sample TF1-GZ-112-083017. The laboratory reanalyzed these analytes at a dilution factor of 10, and the results for these analytes from the dilution were selected for validation purposes.

VOC sample TF1-GZ-118-083017 was analyzed at a dilution factor of 5. As stated above, VOC analytes cyclohexane, ethylbenzene, and m+p-xylenes in sample TF1-GZ-112-083017 were analyzed at a dilution factor of 10.

The VOC MS/MSD analysis performed on sample TF1-MW-1005-083017 had a RPD that was greater than the laboratory quality control limit for bromomethane. No action was necessary because the result for bromomethane was non-detected in the original unspiked sample, TF1-MW-1005-083017.

Manganese in samples TF1-GZ-112-083017 and TF1-GZ-118-083017 were analyzed at dilution factors of 10 and 5, respectively.

The metals (6020A analysis) MS/MSD performed on sample TF1-MW-1005-083017 had an MSD %R that was greater than the laboratory quality control limits for barium. No action was necessary because the MS %R was compliant.

Sulfate in sample TF1-GZ-118-083017 was analyzed at a dilution factor of 3.

The PFAS surrogate %Rs for 13C8-PFOSA were less than the laboratory quality control limits (but greater than 10%) for all PFAS samples. Results for the associated analyte, perfluorooctane sulfonamide, were non-detected in all samples; therefore, no qualification was necessary.

EXECUTIVE SUMMARY

Laboratory Performance Issues: TPH results were qualified due to holding time noncompliance. Some TOC results were qualified as non-detected due to laboratory blank contamination. Some PAH results were qualified due to LCS noncompliance.

Other Factors Affecting Data Quality: Several PFAS results were qualified due to field blank contamination. Several PAH, metals, and PFAS results were qualified due to MS/MSD noncompliance. Detected results below the LOQ but above the DL were qualified as estimated.

The data for these analyses were reviewed with reference to the USEPA National Functional Guidelines for

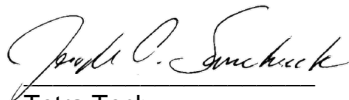
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Organic Superfund Methods Data Review" (January 2017), the "National Functional Guidelines for Inorganic Superfund Methods Data Review" (January 2017), and the Environmental Protection Agency document EPA/600/R-08/092, Method 537, "Determination of 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 problem areas affecting data quality.



Tetra Tech
Leigh A. Ciofani
Environmental Scientist/Data Validator



Tetra Tech
Joseph A. Samchuck
Data Validation Manager

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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.

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 ($< 2 \times$ 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-WE15 SDG: SC38733 FRACTION: OV MEDIA: WATER	NSAMPLE	TF1-GZ-112-083017			TF1-GZ-112-083017-DL			TF1-GZ-118-083017			TF1-MW-1005-083017		
	LAB_ID	SC38733-03			SC38733-03RE1			SC38733-05			SC38733-04		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017			8/30/2017		
	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
1,1,1-TRICHLOROETHANE		1	U					5	U		1	U	
1,1,2,2-TETRACHLOROETHANE		0.5	U					2.5	U		0.5	U	
1,1,2-TRICHLOROETHANE		0.5	U					2.5	U		0.5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		1	U					5	U		1	U	
1,1-DICHLOROETHANE		1	U					5	U		1	U	
1,1-DICHLOROETHENE		1	U					5	U		1	U	
1,2,3-TRICHLOROBENZENE		1	U					5	U		1	U	
1,2,4-TRICHLOROBENZENE		1	U					5	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE		2	U					10	U		2	U	
1,2-DIBROMOETHANE		0.5	U					2.5	U		0.5	U	
1,2-DICHLOROBENZENE		0.5	U					2.5	U		0.5	U	
1,2-DICHLOROETHANE		1	U					5	U		1	U	
1,2-DICHLOROPROPANE		1	U					5	U		1	U	
1,3-DICHLOROBENZENE		0.5	U					2.5	U		0.5	U	
1,4-DICHLOROBENZENE		0.5	U					2.5	U		0.5	U	
2-BUTANONE		2	U					10	U		2	U	
2-HEXANONE		2	U					10	U		2	U	
4-METHYL-2-PENTANONE		2	U					10	U		2	U	
ACETONE		2	U					10	U		2	U	
BENZENE		7.3						2.5	U		0.5	U	
BROMOCHLOROMETHANE		1	U					5	U		1	U	
BROMODICHLOROMETHANE		0.5	U					2.5	U		0.5	U	
BROMOFORM		1	U					5	U		1	U	
BROMOMETHANE		2	U					10	U		2	U	
CARBON DISULFIDE		1	U					5	U		1	U	
CARBON TETRACHLORIDE		1	U					5	U		1	U	
CHLOROBENZENE		0.5	U					2.5	U		0.5	U	
CHLORODIBROMOMETHANE		0.5	U					2.5	U		0.5	U	
CHLOROETHANE		2	U					10	U		2	U	
CHLOROFORM		1	U					5	U		1	U	
CHLOROMETHANE		1	U					5	U		1	U	
CIS-1,2-DICHLOROETHENE		0.5	U					2.5	U		0.5	U	
CIS-1,3-DICHLOROPROPENE		0.5	U					2.5	U		0.5	U	
CYCLOHEXANE					104			10	U		2	U	
DICHLORODIFLUOROMETHANE		2	U					10	U		2	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: OV MEDIA: WATER	NSAMPLE	TF1-MW-1007-083017			TF1-MW-1007D-083017			TF1-TB-083017		
	LAB_ID	SC38733-01			SC38733-02			SC38733-07		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017		
	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
1,1,1-TRICHLOROETHANE		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE		0.5	U		0.5	U		0.5	U	
1,1,2-TRICHLOROETHANE		0.5	U		0.5	U		0.5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		1	U		1	U		1	U	
1,1-DICHLOROETHANE		1	U		1	U		1	U	
1,1-DICHLOROETHENE		1	U		1	U		1	U	
1,2,3-TRICHLOROBENZENE		1	U		1	U		1	U	
1,2,4-TRICHLOROBENZENE		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE		2	U		2	U		2	U	
1,2-DIBROMOETHANE		0.5	U		0.5	U		0.5	U	
1,2-DICHLOROBENZENE		0.5	U		0.5	U		0.5	U	
1,2-DICHLOROETHANE		1	U		1	U		1	U	
1,2-DICHLOROPROPANE		1	U		1	U		1	U	
1,3-DICHLOROBENZENE		0.5	U		0.5	U		0.5	U	
1,4-DICHLOROBENZENE		0.5	U		0.5	U		0.5	U	
2-BUTANONE		2	U		2	U		2	U	
2-HEXANONE		2	U		2	U		2	U	
4-METHYL-2-PENTANONE		2	U		2	U		2	U	
ACETONE		2	U		2	U		2	U	
BENZENE		0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE		1	U		1	U		1	U	
BROMODICHLOROMETHANE		0.5	U		0.5	U		0.5	U	
BROMOFORM		1	U		1	U		1	U	
BROMOMETHANE		2	U		2	U		2	U	
CARBON DISULFIDE		1	U		1	U		1	U	
CARBON TETRACHLORIDE		1	U		1	U		1	U	
CHLOROBENZENE		0.5	U		0.5	U		0.5	U	
CHLORODIBROMOMETHANE		0.5	U		0.5	U		0.5	U	
CHLOROETHANE		2	U		2	U		2	U	
CHLOROFORM		1	U		1	U		1	U	
CHLOROMETHANE		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE		0.5	U		0.5	U		0.5	U	
CIS-1,3-DICHLOROPROPENE		0.5	U		0.5	U		0.5	U	
CYCLOHEXANE		2	U		2	U		2	U	
DICHLORODIFLUOROMETHANE		2	U		2	U		2	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: OV MEDIA: WATER	NSAMPLE	TF1-GZ-112-083017			TF1-GZ-112-083017-DL			TF1-GZ-118-083017			TF1-MW-1005-083017		
	LAB_ID	SC38733-03			SC38733-03RE1			SC38733-05			SC38733-04		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017			8/30/2017		
	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
ETHYLBENZENE					220			2.5	U		0.5	U	
ISOPROPYLBENZENE		35.9						5	U		1	U	
M+P-XYLENES					277			5	U		0.8	J	P
METHYL ACETATE		2	U					10	U		2	U	
METHYL CYCLOHEXANE		85.6						10	U		2	U	
METHYL TERT-BUTYL ETHER		1.8						2.5	U		0.5	U	
METHYLENE CHLORIDE		2	U					10	U		2	U	
O-XYLENE		17.5						5	U		1	U	
STYRENE		1	U					5	U		1	U	
TETRACHLOROETHENE		1	U					5	U		1	U	
TOLUENE		5						5	U		1	U	
TRANS-1,2-DICHLOROETHENE		1	U					5	U		1	U	
TRANS-1,3-DICHLOROPROPENE		0.5	U					2.5	U		0.5	U	
TRICHLOROETHENE		1	U					5	U		1	U	
TRICHLOROFLUOROMETHANE		1	U					5	U		1	U	
VINYL CHLORIDE		1	U					5	U		1	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: OV MEDIA: WATER	NSAMPLE	TF1-MW-1007-083017			TF1-MW-1007D-083017			TF1-TB-083017		
	LAB_ID	SC38733-01			SC38733-02			SC38733-07		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017		
	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
ETHYLBENZENE		0.5 U			0.5 U			0.5 U		
ISOPROPYLBENZENE		1 U			1 U			1 U		
M+P-XYLENES		1 U			1 U			1 U		
METHYL ACETATE		2 U			2 U			2 U		
METHYL CYCLOHEXANE		2 U			2 U			2 U		
METHYL TERT-BUTYL ETHER		0.5 U			0.5 U			0.5 U		
METHYLENE CHLORIDE		2 U			2 U			2 U		
O-XYLENE		1 U			1 U			1 U		
STYRENE		1 U			1 U			1 U		
TETRACHLOROETHENE		1 U			1 U			1 U		
TOLUENE		1 U			1 U			1 U		
TRANS-1,2-DICHLOROETHENE		1 U			1 U			1 U		
TRANS-1,3-DICHLOROPROPENE		0.5 U			0.5 U			0.5 U		
TRICHLOROETHENE		1 U			1 U			1 U		
TRICHLOROFLUOROMETHANE		1 U			1 U			1 U		
VINYL CHLORIDE		1 U			1 U			1 U		

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: OS MEDIA: WATER	NSAMPLE	TF1-GZ-112-083017			TF1-GZ-118-083017			TF1-MW-1005-083017			TF1-MW-1007-083017		
	LAB_ID	SC38733-03			SC38733-05			SC38733-04			SC38733-01		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017			8/30/2017		
	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
1-METHYLNAPHTHALENE		6.45			0.952	U		0.952	UJ	D	0.962	U	
2-METHYLNAPHTHALENE		13.2			0.952	U		0.952	U		0.962	U	
ACENAPHTHENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
ACENAPHTHYLENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
ANTHRACENE		1.06	UJ	E	0.952	UJ	E	0.952	UJ	DE	0.962	UJ	E
BENZO(A)ANTHRACENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
BENZO(A)PYRENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
BENZO(B)FLUORANTHENE		1.06	U		0.952	U		0.952	U		0.962	U	
BENZO(G,H,I)PERYLENE		1.06	UJ	E	0.952	UJ	E	0.952	UJ	DE	0.962	UJ	E
BENZO(K)FLUORANTHENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
CHRYSENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
DIBENZO(A,H)ANTHRACENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
FLUORANTHENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
FLUORENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
INDENO(1,2,3-CD)PYRENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	
NAPHTHALENE		13.6			0.952	U		0.952	UJ	D	0.962	U	
PHENANTHRENE		1.06	UJ	E	0.952	UJ	E	0.952	UJ	DE	0.962	UJ	E
PYRENE		1.06	U		0.952	U		0.952	UJ	D	0.962	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: OS MEDIA: WATER	NSAMPLE	TF1-MW-1007D-083017		
	LAB_ID	SC38733-02		
	SAMP_DATE	8/30/2017		
	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		0.971	U	
2-METHYLNAPHTHALENE		0.971	U	
ACENAPHTHENE		0.971	U	
ACENAPHTHYLENE		0.971	U	
ANTHRACENE		0.971	UJ	E
BENZO(A)ANTHRACENE		0.971	U	
BENZO(A)PYRENE		0.971	U	
BENZO(B)FLUORANTHENE		0.971	U	
BENZO(G,H,I)PERYLENE		0.971	UJ	E
BENZO(K)FLUORANTHENE		0.971	U	
CHRYSENE		0.971	U	
DIBENZO(A,H)ANTHRACENE		0.971	U	
FLUORANTHENE		0.971	U	
FLUORENE		0.971	U	
INDENO(1,2,3-CD)PYRENE		0.971	U	
NAPHTHALENE		0.971	U	
PHENANTHRENE		0.971	UJ	E
PYRENE		0.971	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: OVG MEDIA: WATER	NSAMPLE	TF1-GZ-112-083017			TF1-GZ-118-083017			TF1-MW-1005-083017			TF1-MW-1007-083017		
	LAB_ID	SC38733-03			SC38733-05			SC38733-04			SC38733-01		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017			8/30/2017		
	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
ETHANE		5	U		5	U		5	U		5	U	
METHANE		65			2.2	U		2.2	U		2.2	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: OVG MEDIA: WATER	NSAMPLE	TF1-MW-1007D-083017		
	LAB_ID	SC38733-02		
	SAMP_DATE	8/30/2017		
	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
ETHANE		5	U	
METHANE		2.2	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: PEST MEDIA: WATER	NSAMPLE	TF1-GZ-112-083017			TF1-GZ-118-083017			TF1-MW-1005-083017			TF1-MW-1007-083017		
	LAB_ID	SC38733-03			SC38733-05			SC38733-04			SC38733-01		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017			8/30/2017		
	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
4,4'-DDD		0.021	U		0.019	U		0.019	U		0.019	U	
4,4'-DDE		0.021	U		0.019	U		0.019	U		0.019	U	
4,4'-DDT		0.032	U		0.029	U		0.029	U		0.029	U	
ALACHLOR		0.021	U		0.019	U		0.019	U		0.019	U	
ALDRIN		0.021	U		0.019	U		0.019	U		0.019	U	
ALPHA-BHC		0.021	U		0.019	U		0.019	U		0.019	U	
ALPHA-CHLORDANE		0.021	U		0.019	U		0.019	U		0.019	U	
BETA-BHC		0.021	U		0.019	U		0.019	U		0.019	U	
CHLORDANE		0.069	U		0.063	U		0.063	U		0.063	U	
DELTA-BHC		0.021	U		0.019	U		0.019	U		0.019	U	
DIELDRIN		0.021	U		0.019	U		0.019	U		0.019	U	
ENDOSULFAN I		0.021	U		0.019	U		0.019	U		0.019	U	
ENDOSULFAN II		0.021	U		0.019	U		0.019	U		0.019	U	
ENDOSULFAN SULFATE		0.021	U		0.019	U		0.019	U		0.019	U	
ENDRIN		0.021	U		0.019	U		0.019	U		0.019	U	
ENDRIN ALDEHYDE		0.021	U		0.019	U		0.019	U		0.019	U	
ENDRIN KETONE		0.021	U		0.019	U		0.019	U		0.019	U	
GAMMA-BHC (LINDANE)		0.021	U		0.019	U		0.019	U		0.019	U	
GAMMA-CHLORDANE		0.021	U		0.019	U		0.019	U		0.019	U	
HEPTACHLOR		0.021	U		0.019	U		0.019	U		0.019	U	
HEPTACHLOR EPOXIDE		0.021	U		0.019	U		0.019	U		0.019	U	
METHOXYCHLOR		0.021	U		0.019	U		0.019	U		0.019	U	
TOXAPHENE		0.532	U		0.485	U		0.481	U		0.481	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: PEST MEDIA: WATER	NSAMPLE	TF1-MW-1007D-083017		
	LAB_ID	SC38733-02		
	SAMP_DATE	8/30/2017		
	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
4,4'-DDD		0.02	U	
4,4'-DDE		0.02	U	
4,4'-DDT		0.029	U	
ALACHLOR		0.02	U	
ALDRIN		0.02	U	
ALPHA-BHC		0.02	U	
ALPHA-CHLORDANE		0.02	U	
BETA-BHC		0.02	U	
CHLORDANE		0.064	U	
DELTA-BHC		0.02	U	
DIELDRIN		0.02	U	
ENDOSULFAN I		0.02	U	
ENDOSULFAN II		0.02	U	
ENDOSULFAN SULFATE		0.02	U	
ENDRIN		0.02	U	
ENDRIN ALDEHYDE		0.02	U	
ENDRIN KETONE		0.02	U	
GAMMA-BHC (LINDANE)		0.02	U	
GAMMA-CHLORDANE		0.02	U	
HEPTACHLOR		0.02	U	
HEPTACHLOR EPOXIDE		0.02	U	
METHOXYCHLOR		0.02	U	
TOXAPHENE		0.49	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: PET MEDIA: WATER	NSAMPLE	TF1-GZ-112-083017			TF1-GZ-118-083017			TF1-MW-1005-083017			TF1-MW-1007-083017		
	LAB_ID	SC38733-03			SC38733-05			SC38733-04			SC38733-01		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017			8/30/2017		
	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
TPH (C08-C44)		2.3	J	H	0.13	J	HP	0.13	J	HP	0.1	UJ	H

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: PET MEDIA: WATER	NSAMPLE	TF1-MW-1007D-083017		
	LAB_ID	SC38733-02		
	SAMP_DATE	8/30/2017		
	QC_TYPE	NM		
	UNITS	MG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
TPH (C08-C44)		0.12	J	HP

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: M MEDIA: WATER	NSAMPLE	TF1-GZ-112-083017						TF1-GZ-118-083017					
	LAB_ID	SC38733-03						SC38733-05					
	SAMP_DATE	8/30/2017						8/30/2017					
	QC_TYPE	NM						NM					
	UNITS	MG/L						MG/L					
	PCT_SOLIDS	0.0		199.0		0.0		199.0					
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		0.05	U					0.05	U				
ANTIMONY					0.001	UJ	D				0.001	UJ	D
ARSENIC					0.149						0.3		
BARIUM					0.0167						0.0169		
BERYLLIUM					0.00025	U					0.00025	U	
CADMIUM					0.0005	U					0.0005	U	
CALCIUM		14.8						60.8					
CHROMIUM					0.002	U					0.002	U	
COBALT					0.0559						0.0471		
COPPER					0.001	U					0.001	U	
IRON		43.7						20.7					
LEAD					0.00025	U					0.00015	J	P
MAGNESIUM		5.54						7.54					
MANGANESE					17.4						7.95		
MERCURY		0.0002	U					0.0002	U				
MOLYBDENUM					0.0038						0.0021		
NICKEL					0.0042						0.0019	J	P
POTASSIUM		1						3.28					
SELENIUM					0.001	U					0.001	U	
SILVER					0.00025	U					0.00025	U	
SODIUM		6.35						7.25					
THALLIUM					0.00025	U					0.00025	U	
VANADIUM					0.0005	U					0.0005	U	
ZINC					0.0075	U					0.0075	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: M MEDIA: WATER	NSAMPLE	TF1-MW-1005-083017						TF1-MW-1007-083017					
	LAB_ID	SC38733-04						SC38733-01					
	SAMP_DATE	8/30/2017						8/30/2017					
	QC_TYPE	NM						NM					
	UNITS	MG/L						MG/L					
	PCT_SOLIDS	0.0		199.0		0.0		199.0					
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		0.0341	J	P				0.0577					
ANTIMONY					0.001	UJ	D				0.001	UJ	D
ARSENIC					0.0232						0.002	U	
BARIUM					0.0106						0.0062		
BERYLLIUM					0.00025	U					0.00025	U	
CADMIUM					0.0005	U					0.0005	U	
CALCIUM		6.63						10.2					
CHROMIUM					0.002	U					0.0041		
COBALT					0.0581						0.00078	J	P
COPPER					0.001	U					0.00086	J	P
IRON		6.29						0.0813					
LEAD					0.00025	U					0.00025	U	
MAGNESIUM		2.63						2.32					
MANGANESE					3.08						0.0334		
MERCURY		0.0002	U					0.0002	U				
MOLYBDENUM					0.0005	U					0.0005	U	
NICKEL					0.0262						0.0045		
POTASSIUM		1.24						2.6					
SELENIUM					0.001	U					0.001	U	
SILVER					0.00025	U					0.00025	U	
SODIUM		6.02						15.4					
THALLIUM					0.00025	U					0.00025	U	
VANADIUM					0.0005	U					0.0014		
ZINC					0.0128	J	P				0.0136	J	P

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: M MEDIA: WATER	NSAMPLE	TF1-MW-1007D-083017					
	LAB_ID	SC38733-02					
	SAMP_DATE	8/30/2017					
	QC_TYPE	NM					
	UNITS	MG/L					
	PCT_SOLIDS	0.0			199.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		0.0533					
ANTIMONY					0.001	UJ	D
ARSENIC					0.002	U	
BARIUM					0.0063		
BERYLLIUM					0.00025	U	
CADMIUM					0.0005	U	
CALCIUM		6.72					
CHROMIUM					0.002	U	
COBALT					0.0012		
COPPER					0.0029	J	P
IRON		0.0402					
LEAD					0.00025	U	
MAGNESIUM		2.8					
MANGANESE					0.0307		
MERCURY		0.0002	U				
MOLYBDENUM					0.0005	U	
NICKEL					0.0064		
POTASSIUM		2.24					
SELENIUM					0.001	U	
SILVER					0.00025	U	
SODIUM		12.7					
THALLIUM					0.00025	U	
VANADIUM					0.0005	U	
ZINC					0.0093	J	P

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: MISC MEDIA: WATER	NSAMPLE	TF1-GZ-112-083017			TF1-GZ-118-083017			TF1-MW-1005-083017			TF1-MW-1007-083017		
	LAB_ID	SC38733-03			SC38733-05			SC38733-04			SC38733-01		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017			8/30/2017		
	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		95			151			25.6			19.7		
BIOCHEMICAL OXYGEN DEMAND		2.97	U		3			2.97	U		2.97	U	
CHLORIDE		10.4			8.41			8.43			27.3		
NITRATE-N		0.1	U		0.1	U		0.1	U		0.707		
SULFATE		1	U		75.9			21.5			9.91		
TOTAL ORGANIC CARBON		1.54			1.78			0.504	U	A	0.469	U	A

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: MISC MEDIA: WATER	NSAMPLE	TF1-MW-1007D-083017		
	LAB_ID	SC38733-02		
	SAMP_DATE	8/30/2017		
	QC_TYPE	NM		
	UNITS	MG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
ALKALINITY		11.7		
BIOCHEMICAL OXYGEN DEMAND		2.97	U	
CHLORIDE		23.9		
NITRATE-N		0.519		
SULFATE		10.3		
TOTAL ORGANIC CARBON		0.886	U	A

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: PFAS MEDIA: WATER	NSAMPLE	TF1-FRB-083017			TF1-GZ-112-083017			TF1-GZ-118-083017			TF1-MW-1005-083017		
	LAB_ID	SC38733-06			SC38733-03			SC38733-05			SC38733-04		
	SAMP_DATE	8/30/2017			8/30/2017			8/30/2017			8/30/2017		
	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
PENTADECAFLUOROOCCTANOIC ACID		2	U		2			6			15	J	D
PERFLUOROBUTANESULFONIC ACID		3	U		3	U		1	J	P	18	J	D
PERFLUOROBUTANOIC ACID		10	U		10	U		5	J	P	11	J	D
PERFLUORODECANE SULFONIC ACID		6	U		6	U		6	U		6	U	
PERFLUORODECANOIC ACID		2			2	U	B	2	U		2	U	
PERFLUORODODECANOIC ACID		2	U		2	U		2	U		2	U	
PERFLUOROHEPTANESULFONIC ACID		6	U		6	U		6	U		8		
PERFLUOROHEPTANOIC ACID		2	U		2	J	P	4			7		
PERFLUOROHEXANESULFONIC ACID		3	U		3			11			150		
PERFLUOROHEXANOIC ACID		2	U		2			7			37	J	D
PERFLUORONONANOIC ACID		2	U		2	U		0.9	J	P	2	U	
PERFLUOROOCTANE SULFONAMIDE		9	U		9	U		9	U		9	U	
PERFLUOROOCTANE SULFONIC ACID		6	U		6	U		6	U		490		
PERFLUOROPENTANOIC ACID		2	U		3			8			16	J	D
PERFLUOROTETRADECANOIC ACID		2	U		2	U		2	U		2	U	
PERFLUOROTRIDECANOIC ACID		2	U		2	U		2	U		2	U	
PERFLUOROUNDECANOIC ACID		3	U		3	U		3	U		3	U	

PROJ_NO: 08005-WE15 SDG: SC38733 FRACTION: PFAS MEDIA: WATER	NSAMPLE	TF1-MW-1007-083017			TF1-MW-1007D-083017		
	LAB_ID	SC38733-01			SC38733-02		
	SAMP_DATE	8/30/2017			8/30/2017		
	QC_TYPE	NM			NM		
	UNITS	NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
PENTADECAFLUOROOCTANOIC ACID		2	J	P	3		
PERFLUOROBUTANESULFONIC ACID		3	U		3	U	
PERFLUOROBUTANOIC ACID		10	U		10	U	
PERFLUORODECANE SULFONIC ACID		6	U		6	U	
PERFLUORODECANOIC ACID		2	U	B	2	U	
PERFLUORODODECANOIC ACID		2	U		2	U	
PERFLUOROHEPTANESULFONIC ACID		6	U		6	U	
PERFLUOROHEPTANOIC ACID		0.8	J	P	1	J	P
PERFLUOROHEXANESULFONIC ACID		2	J	P	2	J	P
PERFLUOROHEXANOIC ACID		1	J	P	2	J	P
PERFLUORONONANOIC ACID		2	U		2	U	
PERFLUOROOCTANE SULFONAMIDE		9	U		9	U	
PERFLUOROOCTANE SULFONIC ACID		6	U		6	U	
PERFLUOROPENTANOIC ACID		1	J	P	2	J	P
PERFLUOROTETRADECANOIC ACID		2	U		2	U	
PERFLUOROTRIDECANOIC ACID		2	U		2	U	
PERFLUOROUNDECANOIC ACID		3	U		3	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GZ-112-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-03 File ID: 3873303.D
 Sampled: 08/30/17 14:20 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 17:55
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	7.3		0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	234	E	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	35.9		0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	1.8		0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	5.0		0.3	1.0	1.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GZ-112-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-03 File ID: 3873303.D
 Sampled: 08/30/17 14:20 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 17:55
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	290	E	0.4	1.0	2.0
95-47-6	o-Xylene	1	17.5		0.3	1.0	1.0
110-82-7	Cyclohexane	1	126	E	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	85.6		0.7	2.0	5.0

FORM I - ORGANIC ANALYSIS DATA SHEET**SW846 8260C****TF1-GZ-112-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-03RE1 File ID: 3873303RE1.D
Sampled: 08/30/17 14:20 Prepared: 09/11/17 08:41 Analyzed: 09/11/17 12:04
% Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
Batch: 1715452 Sequence: S708033 Calibration: 1709004 Instrument: HPV3
Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
100-41-4	Ethylbenzene	10	220	D	3.3	5.0	10.0
179601-23-1	m,p-Xylene	10	277	D	3.8	10.0	20.0
110-82-7	Cyclohexane	10	104	D	7.9	20.0	50.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GZ-118-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-05 File ID: 3873305.D
 Sampled: 08/30/17 15:05 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 18:53
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	5	5.0	U	2.7	5.0	5.0
67-64-1	Acetone	5	10.0	U	4.0	10.0	50.0
71-43-2	Benzene	5	2.5	U	1.4	2.5	5.0
74-97-5	Bromochloromethane	5	5.0	U	1.7	5.0	5.0
75-27-4	Bromodichloromethane	5	2.5	U	2.1	2.5	2.5
75-25-2	Bromoform	5	5.0	U	2.1	5.0	5.0
74-83-9	Bromomethane	5	10.0	U	4.5	10.0	10.0
78-93-3	2-Butanone (MEK)	5	10.0	U	5.4	10.0	10.0
75-15-0	Carbon disulfide	5	5.0	U	2.1	5.0	10.0
56-23-5	Carbon tetrachloride	5	5.0	U	2.2	5.0	5.0
108-90-7	Chlorobenzene	5	2.5	U	1.2	2.5	5.0
75-00-3	Chloroethane	5	10.0	U	2.9	10.0	10.0
67-66-3	Chloroform	5	5.0	U	1.6	5.0	5.0
74-87-3	Chloromethane	5	5.0	U	1.8	5.0	10.0
96-12-8	1,2-Dibromo-3-chloropropane	5	10.0	U	4.3	10.0	10.0
124-48-1	Dibromochloromethane	5	2.5	U	1.6	2.5	2.5
106-93-4	1,2-Dibromoethane (EDB)	5	2.5	U	1.0	2.5	2.5
95-50-1	1,2-Dichlorobenzene	5	2.5	U	1.4	2.5	5.0
541-73-1	1,3-Dichlorobenzene	5	2.5	U	1.6	2.5	5.0
106-46-7	1,4-Dichlorobenzene	5	2.5	U	1.4	2.5	5.0
75-71-8	Dichlorodifluoromethane (Freon12)	5	10.0	U	2.9	10.0	10.0
75-34-3	1,1-Dichloroethane	5	5.0	U	1.6	5.0	5.0
107-06-2	1,2-Dichloroethane	5	5.0	U	1.4	5.0	5.0
75-35-4	1,1-Dichloroethene	5	5.0	U	3.5	5.0	5.0
156-59-2	cis-1,2-Dichloroethene	5	2.5	U	1.6	2.5	5.0
156-60-5	trans-1,2-Dichloroethene	5	5.0	U	1.9	5.0	5.0
78-87-5	1,2-Dichloropropane	5	5.0	U	1.5	5.0	5.0
10061-01-5	cis-1,3-Dichloropropene	5	2.5	U	1.8	2.5	2.5
10061-02-6	trans-1,3-Dichloropropene	5	2.5	U	1.7	2.5	2.5
100-41-4	Ethylbenzene	5	2.5	U	3.2	2.5	5.0
591-78-6	2-Hexanone (MBK)	5	10.0	U	2.6	10.0	10.0
98-82-8	Isopropylbenzene	5	5.0	U	1.8	5.0	5.0
1634-04-4	Methyl tert-butyl ether	5	2.5	U	1.2	2.5	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5	10.0	U	2.6	10.0	10.0
75-09-2	Methylene chloride	5	10.0	U	3.3	10.0	10.0
100-42-5	Styrene	5	5.0	U	2.0	5.0	5.0
79-34-5	1,1,2,2-Tetrachloroethane	5	2.5	U	1.6	2.5	2.5
127-18-4	Tetrachloroethene	5	5.0	U	2.8	5.0	5.0
108-88-3	Toluene	5	5.0	U	1.5	5.0	5.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GZ-118-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-05 File ID: 3873305.D
 Sampled: 08/30/17 15:05 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 18:53
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	5	5.0	U	1.9	5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	5	5.0	U	1.9	5.0	5.0
71-55-6	1,1,1-Trichloroethane	5	5.0	U	2.5	5.0	5.0
79-00-5	1,1,2-Trichloroethane	5	2.5	U	1.6	2.5	5.0
79-01-6	Trichloroethene	5	5.0	U	2.5	5.0	5.0
75-69-4	Trichlorofluoromethane (Freon 11)	5	5.0	U	2.4	5.0	5.0
75-01-4	Vinyl chloride	5	5.0	U	2.4	5.0	5.0
179601-23-1	m,p-Xylene	5	5.0	U	2.8	5.0	10.0
95-47-6	o-Xylene	5	5.0	U	1.4	5.0	5.0
110-82-7	Cyclohexane	5	10.0	U	3.9	10.0	25.0
79-20-9	Methyl acetate	5	10.0	U	3.2	10.0	25.0
108-87-2	Methylcyclohexane	5	10.0	U	3.7	10.0	25.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW-1005-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-04 File ID: 3873304.D
 Sampled: 08/30/17 10:10 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 18:24
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.8	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW-1005-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-04 File ID: 3873304.D
 Sampled: 08/30/17 10:10 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 18:24
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	0.8	J	0.8	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW-1007-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-01 File ID: 3873301.D
 Sampled: 08/30/17 10:52 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 16:57
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW-1007-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-01 File ID: 3873301.D
 Sampled: 08/30/17 10:52 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 16:57
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW-1007D-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-02 File ID: 3873302.D
 Sampled: 08/30/17 14:55 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 17:26
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW-1007D-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-02 File ID: 3873302.D
 Sampled: 08/30/17 14:55 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 17:26
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-TB-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: QC Laboratory ID: SC38733-07 File ID: 3873307.D
 Sampled: 08/30/17 08:00 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 19:22
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-TB-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: QC Laboratory ID: SC38733-07 File ID: 3873307.D
 Sampled: 08/30/17 08:00 Prepared: 09/06/17 09:20 Analyzed: 09/06/17 19:22
 % Solids: Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Batch: 1715197 Sequence: S707890 Calibration: 1709004 Instrument: HPV3
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-GZ-112-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-03 File ID: C3873303.D
 Sampled: 08/30/17 14:20 Prepared: 09/01/17 08:00 Analyzed: 09/15/17 18:21
 % Solids: Preparation: SW846 3510C Initial/Final: 940 ml / 1 ml
 Batch: 1715009 Sequence: S708251 Calibration: 1708113 Instrument: HPS4
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	1.06	U	0.735	1.06	5.32
208-96-8	Acenaphthylene	1	1.06	U	0.727	1.06	5.32
120-12-7	Anthracene	1	1.06	U	0.647	1.06	5.32
56-55-3	Benzo (a) anthracene	1	1.06	U	0.570	1.06	5.32
50-32-8	Benzo (a) pyrene	1	1.06	U	0.598	1.06	5.32
205-99-2	Benzo (b) fluoranthene	1	1.06	U	0.465	1.06	5.32
191-24-2	Benzo (g,h,i) perylene	1	1.06	U	0.564	1.06	5.32
207-08-9	Benzo (k) fluoranthene	1	1.06	U	0.511	1.06	5.32
218-01-9	Chrysene	1	1.06	U	0.566	1.06	5.32
53-70-3	Dibenzo (a,h) anthracene	1	1.06	U	0.479	1.06	5.32
206-44-0	Fluoranthene	1	1.06	U	0.679	1.06	5.32
86-73-7	Fluorene	1	1.06	U	0.651	1.06	5.32
193-39-5	Indeno (1,2,3-cd) pyrene	1	1.06	U	0.617	1.06	5.32
90-12-0	1-Methylnaphthalene	1	6.45		0.780	1.06	5.32
91-57-6	2-Methylnaphthalene	1	13.2		0.611	1.06	5.32
91-20-3	Naphthalene	1	13.6		0.729	1.06	5.32
85-01-8	Phenanthrene	1	1.06	U	0.623	1.06	5.32
129-00-0	Pyrene	1	1.06	U	0.649	1.06	5.32

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-GZ-118-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-05 File ID: C3873305.D
 Sampled: 08/30/17 15:05 Prepared: 09/01/17 08:00 Analyzed: 09/15/17 20:14
 % Solids: Preparation: SW846 3510C Initial/Final: 1050 ml / 1 ml
 Batch: 1715009 Sequence: S708251 Calibration: 1708113 Instrument: HPS4
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.952	U	0.658	0.952	4.76
208-96-8	Acenaphthylene	1	0.952	U	0.650	0.952	4.76
120-12-7	Anthracene	1	0.952	U	0.579	0.952	4.76
56-55-3	Benzo (a) anthracene	1	0.952	U	0.510	0.952	4.76
50-32-8	Benzo (a) pyrene	1	0.952	U	0.535	0.952	4.76
205-99-2	Benzo (b) fluoranthene	1	0.952	U	0.416	0.952	4.76
191-24-2	Benzo (g,h,i) perylene	1	0.952	U	0.505	0.952	4.76
207-08-9	Benzo (k) fluoranthene	1	0.952	U	0.457	0.952	4.76
218-01-9	Chrysene	1	0.952	U	0.507	0.952	4.76
53-70-3	Dibenzo (a,h) anthracene	1	0.952	U	0.429	0.952	4.76
206-44-0	Fluoranthene	1	0.952	U	0.608	0.952	4.76
86-73-7	Fluorene	1	0.952	U	0.583	0.952	4.76
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.952	U	0.552	0.952	4.76
90-12-0	1-Methylnaphthalene	1	0.952	U	0.698	0.952	4.76
91-57-6	2-Methylnaphthalene	1	0.952	U	0.547	0.952	4.76
91-20-3	Naphthalene	1	0.952	U	0.652	0.952	4.76
85-01-8	Phenanthrene	1	0.952	U	0.558	0.952	4.76
129-00-0	Pyrene	1	0.952	U	0.581	0.952	4.76

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-MW-1005-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-04 File ID: C3873304.D
 Sampled: 08/30/17 10:10 Prepared: 09/01/17 08:00 Analyzed: 09/15/17 18:50
 % Solids: Preparation: SW846 3510C Initial/Final: 1050 ml / 1 ml
 Batch: 1715009 Sequence: S708251 Calibration: 1708113 Instrument: HPS4
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.952	U	0.658	0.952	4.76
208-96-8	Acenaphthylene	1	0.952	U	0.650	0.952	4.76
120-12-7	Anthracene	1	0.952	U	0.579	0.952	4.76
56-55-3	Benzo (a) anthracene	1	0.952	U	0.510	0.952	4.76
50-32-8	Benzo (a) pyrene	1	0.952	U	0.535	0.952	4.76
205-99-2	Benzo (b) fluoranthene	1	0.952	U	0.416	0.952	4.76
191-24-2	Benzo (g,h,i) perylene	1	0.952	U	0.505	0.952	4.76
207-08-9	Benzo (k) fluoranthene	1	0.952	U	0.457	0.952	4.76
218-01-9	Chrysene	1	0.952	U	0.507	0.952	4.76
53-70-3	Dibenzo (a,h) anthracene	1	0.952	U	0.429	0.952	4.76
206-44-0	Fluoranthene	1	0.952	U	0.608	0.952	4.76
86-73-7	Fluorene	1	0.952	U	0.583	0.952	4.76
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.952	U	0.552	0.952	4.76
90-12-0	1-Methylnaphthalene	1	0.952	U	0.698	0.952	4.76
91-57-6	2-Methylnaphthalene	1	0.952	U	0.547	0.952	4.76
91-20-3	Naphthalene	1	0.952	U	0.652	0.952	4.76
85-01-8	Phenanthrene	1	0.952	U	0.558	0.952	4.76
129-00-0	Pyrene	1	0.952	U	0.581	0.952	4.76

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-MW-1007-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-01 File ID: C3873301.D
 Sampled: 08/30/17 10:52 Prepared: 09/01/17 08:00 Analyzed: 09/15/17 17:25
 % Solids: Preparation: SW846 3510C Initial/Final: 1040 ml / 1 ml
 Batch: 1715009 Sequence: S708251 Calibration: 1708113 Instrument: HPS4
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.962	U	0.664	0.962	4.81
208-96-8	Acenaphthylene	1	0.962	U	0.657	0.962	4.81
120-12-7	Anthracene	1	0.962	U	0.585	0.962	4.81
56-55-3	Benzo (a) anthracene	1	0.962	U	0.515	0.962	4.81
50-32-8	Benzo (a) pyrene	1	0.962	U	0.540	0.962	4.81
205-99-2	Benzo (b) fluoranthene	1	0.962	U	0.420	0.962	4.81
191-24-2	Benzo (g,h,i) perylene	1	0.962	U	0.510	0.962	4.81
207-08-9	Benzo (k) fluoranthene	1	0.962	U	0.462	0.962	4.81
218-01-9	Chrysene	1	0.962	U	0.512	0.962	4.81
53-70-3	Dibenzo (a,h) anthracene	1	0.962	U	0.433	0.962	4.81
206-44-0	Fluoranthene	1	0.962	U	0.613	0.962	4.81
86-73-7	Fluorene	1	0.962	U	0.588	0.962	4.81
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.962	U	0.558	0.962	4.81
90-12-0	1-Methylnaphthalene	1	0.962	U	0.705	0.962	4.81
91-57-6	2-Methylnaphthalene	1	0.962	U	0.552	0.962	4.81
91-20-3	Naphthalene	1	0.962	U	0.659	0.962	4.81
85-01-8	Phenanthrene	1	0.962	U	0.563	0.962	4.81
129-00-0	Pyrene	1	0.962	U	0.587	0.962	4.81

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-MW-1007D-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-02 File ID: C3873302.D
 Sampled: 08/30/17 14:55 Prepared: 09/01/17 08:00 Analyzed: 09/15/17 17:53
 % Solids: Preparation: SW846 3510C Initial/Final: 1030 ml / 1 ml
 Batch: 1715009 Sequence: S708251 Calibration: 1708113 Instrument: HPS4
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.971	U	0.671	0.971	4.85
208-96-8	Acenaphthylene	1	0.971	U	0.663	0.971	4.85
120-12-7	Anthracene	1	0.971	U	0.590	0.971	4.85
56-55-3	Benzo (a) anthracene	1	0.971	U	0.520	0.971	4.85
50-32-8	Benzo (a) pyrene	1	0.971	U	0.546	0.971	4.85
205-99-2	Benzo (b) fluoranthene	1	0.971	U	0.424	0.971	4.85
191-24-2	Benzo (g,h,i) perylene	1	0.971	U	0.515	0.971	4.85
207-08-9	Benzo (k) fluoranthene	1	0.971	U	0.466	0.971	4.85
218-01-9	Chrysene	1	0.971	U	0.517	0.971	4.85
53-70-3	Dibenzo (a,h) anthracene	1	0.971	U	0.437	0.971	4.85
206-44-0	Fluoranthene	1	0.971	U	0.619	0.971	4.85
86-73-7	Fluorene	1	0.971	U	0.594	0.971	4.85
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.971	U	0.563	0.971	4.85
90-12-0	1-Methylnaphthalene	1	0.971	U	0.712	0.971	4.85
91-57-6	2-Methylnaphthalene	1	0.971	U	0.557	0.971	4.85
91-20-3	Naphthalene	1	0.971	U	0.665	0.971	4.85
85-01-8	Phenanthrene	1	0.971	U	0.569	0.971	4.85
129-00-0	Pyrene	1	0.971	U	0.592	0.971	4.85

FORM I - ORGANIC ANALYSIS DATA SHEET**Mod EPA 3C/SOP RSK-175**

TF1-GZ-112-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-03 File ID: 090817-CHANB-014-0
Sampled: 08/30/17 14:20 Prepared: 09/08/17 06:00 Analyzed: 09/08/17 15:42
% Solids: Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Batch: 1715446 Sequence: S708049 Calibration: 1707028 Instrument: Air5
Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	65.0		2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

FORM I - ORGANIC ANALYSIS DATA SHEET**Mod EPA 3C/SOP RSK-175****TF1-GZ-118-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-05 File ID: 091117-chanb-006-0
Sampled: 08/30/17 15:05 Prepared: 09/11/17 06:00 Analyzed: 09/11/17 10:48
% Solids: Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Batch: 1715514 Sequence: S708081 Calibration: 1707028 Instrument: Air5
Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

FORM I - ORGANIC ANALYSIS DATA SHEET**Mod EPA 3C/SOP RSK-175**

TF1-MW-1005-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-04 File ID: 091117-chanb-004-0
Sampled: 08/30/17 10:10 Prepared: 09/11/17 06:00 Analyzed: 09/11/17 09:54
% Solids: Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Batch: 1715514 Sequence: S708081 Calibration: 1707028 Instrument: Air5
Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

FORM I - ORGANIC ANALYSIS DATA SHEET**Mod EPA 3C/SOP RSK-175**

TF1-MW-1007-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-01 File ID: 090817-chanb-012-0
Sampled: 08/30/17 10:52 Prepared: 09/08/17 06:00 Analyzed: 09/08/17 14:39
% Solids: Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Batch: 1715446 Sequence: S708049 Calibration: 1707028 Instrument: Air5
Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

FORM I - ORGANIC ANALYSIS DATA SHEET**Mod EPA 3C/SOP RSK-175****TF1-MW-1007D-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-02 File ID: 090817-CHANB-013-0
Sampled: 08/30/17 14:55 Prepared: 09/08/17 06:00 Analyzed: 09/08/17 15:16
% Solids: Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Batch: 1715446 Sequence: S708049 Calibration: 1707028 Instrument: Air5
Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

FORM I - ANALYSIS DATA SHEET
SW846 8081B

TF1-GZ-112-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-03 File ID: 3873303.D
 Sampled: 08/30/17 14:20 Prepared: 09/01/17 08:00 Analyzed: 09/08/17 04:00
 % Solids: Preparation: SW846 3510C Initial/Final: 940 ml / 10 ml
 Batch: 1715010 Sequence: S708006 Calibration: 1709015 Instrument: HPS14
 Injection Volume (uL): 2.00
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.021	U	0.012	0.021	0.021
319-85-7	beta-BHC	1	0.021	U	0.016	0.021	0.021
319-86-8	delta-BHC	1	0.021	U	0.016	0.021	0.021
58-89-9	gamma-BHC (Lindane)	1	0.021	U	0.018	0.021	0.021
76-44-8	Heptachlor	1	0.021	U	0.021	0.021	0.021
309-00-2	Aldrin	1	0.021	U	0.017	0.021	0.021
1024-57-3	Heptachlor epoxide	1	0.021	U	0.016	0.021	0.021
959-98-8	Endosulfan I	1	0.021	U	0.017	0.021	0.021
60-57-1	Dieldrin	1	0.021	U	0.018	0.021	0.021
72-55-9	4,4'-DDE (p,p')	1	0.021	U	0.019	0.021	0.021
72-20-8	Endrin	1	0.021	U	0.020	0.021	0.043
33213-65-9	Endosulfan II	1	0.021	U	0.021	0.021	0.043
72-54-8	4,4'-DDD (p,p')	1	0.021	U	0.020	0.021	0.043
1031-07-8	Endosulfan sulfate	1	0.021	U	0.021	0.021	0.043
50-29-3	4,4'-DDT (p,p')	1	0.032	U	0.019	0.032	0.043
72-43-5	Methoxychlor	1	0.021	U	0.019	0.021	0.043
53494-70-5	Endrin ketone	1	0.021	U	0.018	0.021	0.043
7421-93-4	Endrin aldehyde	1	0.021	U	0.020	0.021	0.043
5103-71-9	alpha-Chlordane	1	0.021	U	0.016	0.021	0.021
5103-74-2	Chlordane (gamma)(trans)	1	0.021	U	0.017	0.021	0.021
8001-35-2	Toxaphene	1	0.532	U	0.349	0.532	0.532
57-74-9	Chlordane	1	0.069	U	0.055	0.069	0.069
15972-60-8	Alachlor	1	0.021	U	0.020	0.021	0.021

FORM I - ANALYSIS DATA SHEET
SW846 8081B

TF1-GZ-118-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-05 File ID: 3873305.D
 Sampled: 08/30/17 15:05 Prepared: 09/01/17 08:00 Analyzed: 09/08/17 04:35
 % Solids: Preparation: SW846 3510C Initial/Final: 1030 ml / 10 ml
 Batch: 1715010 Sequence: S708006 Calibration: 1709015 Instrument: HPS14
 Injection Volume (uL): 2.00
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.019	U	0.011	0.019	0.019
319-85-7	beta-BHC	1	0.019	U	0.014	0.019	0.019
319-86-8	delta-BHC	1	0.019	U	0.015	0.019	0.019
58-89-9	gamma-BHC (Lindane)	1	0.019	U	0.017	0.019	0.019
76-44-8	Heptachlor	1	0.019	U	0.019	0.019	0.019
309-00-2	Aldrin	1	0.019	U	0.015	0.019	0.019
1024-57-3	Heptachlor epoxide	1	0.019	U	0.015	0.019	0.019
959-98-8	Endosulfan I	1	0.019	U	0.016	0.019	0.019
60-57-1	Dieldrin	1	0.019	U	0.017	0.019	0.019
72-55-9	4,4'-DDE (p,p')	1	0.019	U	0.017	0.019	0.019
72-20-8	Endrin	1	0.019	U	0.019	0.019	0.039
33213-65-9	Endosulfan II	1	0.019	U	0.019	0.019	0.039
72-54-8	4,4'-DDD (p,p')	1	0.019	U	0.018	0.019	0.039
1031-07-8	Endosulfan sulfate	1	0.019	U	0.019	0.019	0.039
50-29-3	4,4'-DDT (p,p')	1	0.029	U	0.017	0.029	0.039
72-43-5	Methoxychlor	1	0.019	U	0.018	0.019	0.039
53494-70-5	Endrin ketone	1	0.019	U	0.017	0.019	0.039
7421-93-4	Endrin aldehyde	1	0.019	U	0.019	0.019	0.039
5103-71-9	alpha-Chlordane	1	0.019	U	0.015	0.019	0.019
5103-74-2	Chlordane (gamma)(trans)	1	0.019	U	0.016	0.019	0.019
8001-35-2	Toxaphene	1	0.485	U	0.318	0.485	0.485
57-74-9	Chlordane	1	0.063	U	0.050	0.063	0.063
15972-60-8	Alachlor	1	0.019	U	0.018	0.019	0.019

FORM I - ANALYSIS DATA SHEET

SW846 8081B

TF1-MW-1005-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-04 File ID: 3873304.D
 Sampled: 08/30/17 10:10 Prepared: 09/01/17 08:00 Analyzed: 09/08/17 04:18
 % Solids: Preparation: SW846 3510C Initial/Final: 1040 ml / 10 ml
 Batch: 1715010 Sequence: S708006 Calibration: 1709015 Instrument: HPS14
 Injection Volume (uL): 2.00
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.019	U	0.011	0.019	0.019
319-85-7	beta-BHC	1	0.019	U	0.014	0.019	0.019
319-86-8	delta-BHC	1	0.019	U	0.015	0.019	0.019
58-89-9	gamma-BHC (Lindane)	1	0.019	U	0.017	0.019	0.019
76-44-8	Heptachlor	1	0.019	U	0.019	0.019	0.019
309-00-2	Aldrin	1	0.019	U	0.015	0.019	0.019
1024-57-3	Heptachlor epoxide	1	0.019	U	0.015	0.019	0.019
959-98-8	Endosulfan I	1	0.019	U	0.016	0.019	0.019
60-57-1	Dieldrin	1	0.019	U	0.016	0.019	0.019
72-55-9	4,4'-DDE (p,p')	1	0.019	U	0.017	0.019	0.019
72-20-8	Endrin	1	0.019	U	0.018	0.019	0.038
33213-65-9	Endosulfan II	1	0.019	U	0.019	0.019	0.038
72-54-8	4,4'-DDD (p,p')	1	0.019	U	0.018	0.019	0.038
1031-07-8	Endosulfan sulfate	1	0.019	U	0.019	0.019	0.038
50-29-3	4,4'-DDT (p,p')	1	0.029	U	0.017	0.029	0.038
72-43-5	Methoxychlor	1	0.019	U	0.018	0.019	0.038
53494-70-5	Endrin ketone	1	0.019	U	0.017	0.019	0.038
7421-93-4	Endrin aldehyde	1	0.019	U	0.018	0.019	0.038
5103-71-9	alpha-Chlordane	1	0.019	U	0.015	0.019	0.019
5103-74-2	Chlordane (gamma)(trans)	1	0.019	U	0.015	0.019	0.019
8001-35-2	Toxaphene	1	0.481	U	0.315	0.481	0.481
57-74-9	Chlordane	1	0.063	U	0.049	0.063	0.063
15972-60-8	Alachlor	1	0.019	U	0.018	0.019	0.019

FORM I - ANALYSIS DATA SHEET

SW846 8081B

TF1-MW-1007-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-01 File ID: 3873301.D
 Sampled: 08/30/17 10:52 Prepared: 09/01/17 08:00 Analyzed: 09/08/17 03:25
 % Solids: Preparation: SW846 3510C Initial/Final: 1040 ml / 10 ml
 Batch: 1715010 Sequence: S708006 Calibration: 1709015 Instrument: HPS14
 Injection Volume (uL): 2.00
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.019	U	0.011	0.019	0.019
319-85-7	beta-BHC	1	0.019	U	0.014	0.019	0.019
319-86-8	delta-BHC	1	0.019	U	0.015	0.019	0.019
58-89-9	gamma-BHC (Lindane)	1	0.019	U	0.017	0.019	0.019
76-44-8	Heptachlor	1	0.019	U	0.019	0.019	0.019
309-00-2	Aldrin	1	0.019	U	0.015	0.019	0.019
1024-57-3	Heptachlor epoxide	1	0.019	U	0.015	0.019	0.019
959-98-8	Endosulfan I	1	0.019	U	0.016	0.019	0.019
60-57-1	Dieldrin	1	0.019	U	0.016	0.019	0.019
72-55-9	4,4'-DDE (p,p')	1	0.019	U	0.017	0.019	0.019
72-20-8	Endrin	1	0.019	U	0.018	0.019	0.038
33213-65-9	Endosulfan II	1	0.019	U	0.019	0.019	0.038
72-54-8	4,4'-DDD (p,p')	1	0.019	U	0.018	0.019	0.038
1031-07-8	Endosulfan sulfate	1	0.019	U	0.019	0.019	0.038
50-29-3	4,4'-DDT (p,p')	1	0.029	U	0.017	0.029	0.038
72-43-5	Methoxychlor	1	0.019	U	0.018	0.019	0.038
53494-70-5	Endrin ketone	1	0.019	U	0.017	0.019	0.038
7421-93-4	Endrin aldehyde	1	0.019	U	0.018	0.019	0.038
5103-71-9	alpha-Chlordane	1	0.019	U	0.015	0.019	0.019
5103-74-2	Chlordane (gamma)(trans)	1	0.019	U	0.015	0.019	0.019
8001-35-2	Toxaphene	1	0.481	U	0.315	0.481	0.481
57-74-9	Chlordane	1	0.063	U	0.049	0.063	0.063
15972-60-8	Alachlor	1	0.019	U	0.018	0.019	0.019

FORM I - ANALYSIS DATA SHEET

SW846 8081B

TF1-MW-1007D-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-02 File ID: 3873302.D
 Sampled: 08/30/17 14:55 Prepared: 09/01/17 08:00 Analyzed: 09/08/17 03:43
 % Solids: Preparation: SW846 3510C Initial/Final: 1020 ml / 10 ml
 Batch: 1715010 Sequence: S708006 Calibration: 1709015 Instrument: HPS14
 Injection Volume (uL): 2.00
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.020	U	0.011	0.020	0.020
319-85-7	beta-BHC	1	0.020	U	0.014	0.020	0.020
319-86-8	delta-BHC	1	0.020	U	0.015	0.020	0.020
58-89-9	gamma-BHC (Lindane)	1	0.020	U	0.017	0.020	0.020
76-44-8	Heptachlor	1	0.020	U	0.019	0.020	0.020
309-00-2	Aldrin	1	0.020	U	0.015	0.020	0.020
1024-57-3	Heptachlor epoxide	1	0.020	U	0.015	0.020	0.020
959-98-8	Endosulfan I	1	0.020	U	0.016	0.020	0.020
60-57-1	Dieldrin	1	0.020	U	0.017	0.020	0.020
72-55-9	4,4'-DDE (p,p')	1	0.020	U	0.017	0.020	0.020
72-20-8	Endrin	1	0.020	U	0.019	0.020	0.039
33213-65-9	Endosulfan II	1	0.020	U	0.020	0.020	0.039
72-54-8	4,4'-DDD (p,p')	1	0.020	U	0.018	0.020	0.039
1031-07-8	Endosulfan sulfate	1	0.020	U	0.019	0.020	0.039
50-29-3	4,4'-DDT (p,p')	1	0.029	U	0.017	0.029	0.039
72-43-5	Methoxychlor	1	0.020	U	0.018	0.020	0.039
53494-70-5	Endrin ketone	1	0.020	U	0.017	0.020	0.039
7421-93-4	Endrin aldehyde	1	0.020	U	0.019	0.020	0.039
5103-71-9	alpha-Chlordane	1	0.020	U	0.015	0.020	0.020
5103-74-2	Chlordane (gamma)(trans)	1	0.020	U	0.016	0.020	0.020
8001-35-2	Toxaphene	1	0.490	U	0.322	0.490	0.490
57-74-9	Chlordane	1	0.064	U	0.050	0.064	0.064
15972-60-8	Alachlor	1	0.020	U	0.019	0.020	0.020

FORM I - INORGANIC ANALYSIS DATA SHEET**SW846 6010C****TF1-GZ-112-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-03 File ID: 20170918-271
Sampled: 08/30/17 14:20 Prepared: 09/16/17 14:00
% Solids: Preparation: SW846 3005A Initial/Final: 50 ml / 50 ml
Batch: 1715597 Sequence: S710181 Calibration: 1711040
Instrument: ICAP5
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	43.7		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	1.00		1	0.120	0.250	1.00
7440-23-5	Sodium	6.35		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0500	U	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	14.8		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	5.54		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET**SW846 6010C****TF1-GZ-118-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-05 File ID: 20170918-280
Sampled: 08/30/17 15:05 Prepared: 09/16/17 14:00
% Solids: Preparation: SW846 3005A Initial/Final: 50 ml / 50 ml
Batch: 1715597 Sequence: S710181 Calibration: 1711040
Instrument: ICAP5
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	20.7		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	3.28		1	0.120	0.250	1.00
7440-23-5	Sodium	7.25		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0500	U	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	60.8		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	7.54		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET**SW846 6010C****TF1-MW-1005-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-04 File ID: 20170918-273
Sampled: 08/30/17 10:10 Prepared: 09/16/17 14:00
% Solids: Preparation: SW846 3005A Initial/Final: 50 ml / 50 ml
Batch: 1715597 Sequence: S710181 Calibration: 1711040
Instrument: ICAP5
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	6.29		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	1.24		1	0.120	0.250	1.00
7440-23-5	Sodium	6.02		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0341	J	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	6.63		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	2.63		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET**SW846 6010C****TF1-MW-1007-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-01 File ID: 20170918-269
Sampled: 08/30/17 10:52 Prepared: 09/16/17 14:00
% Solids: Preparation: SW846 3005A Initial/Final: 50 ml / 50 ml
Batch: 1715597 Sequence: S710181 Calibration: 1711040
Instrument: ICAP5
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	0.0813		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	2.60		1	0.120	0.250	1.00
7440-23-5	Sodium	15.4		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0577		1	0.0206	0.0500	0.0500
7440-70-2	Calcium	10.2		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	2.32		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET**SW846 6010C****TF1-MW-1007D-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-02 File ID: 20170918-270
Sampled: 08/30/17 14:55 Prepared: 09/16/17 14:00
% Solids: Preparation: SW846 3005A Initial/Final: 50 ml / 50 ml
Batch: 1715597 Sequence: S710181 Calibration: 1711040
Instrument: ICAP5
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	0.0402		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	2.24		1	0.120	0.250	1.00
7440-23-5	Sodium	12.7		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0533		1	0.0206	0.0500	0.0500
7440-70-2	Calcium	6.72		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	2.80		1	0.0088	0.0100	0.0200

Sample Description: SC38733-03 Groundwater

ELLE Sample # WW 9240406

Project Name: SC38733

ELLE Group # 1857446

Account # 30891

Collected: 08/30/2017 14:20

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/16/2017 14:36

Agawan MA 01001

73303 SDG#: SAI28-03

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		SW-846 6020A	mg/l	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.149	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0167	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0559	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0010 U	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00025 U	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	17.4	0.0090	0.0200	0.0400	10
06038	Molybdenum	7439-98-7	0.0038	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0042	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0075 U	0.0039	0.0075	0.0300	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06026	Barium	SW-846 6020A	1	172771063903D	10/12/2017 11:43	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06031	Chromium	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06032	Cobalt	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06033	Copper	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06037	Manganese	SW-846 6020A	1	172771063903A	10/12/2017 12:12	Choon Y Tian	10
06038	Molybdenum	SW-846 6020A	1	172771063903C	10/12/2017 11:43	Choon Y Tian	1
06039	Nickel	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06041	Selenium	SW-846 6020A	1	172771063903B	10/12/2017 11:43	Choon Y Tian	1
06042	Silver	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06048	Vanadium	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
06049	Zinc	SW-846 6020A	1	172771063903A	10/12/2017 11:43	Choon Y Tian	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063903	10/08/2017 21:45	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: SC38733-05 Groundwater

ELLE Sample # WW 9240411

Project Name: SC38733

ELLE Group # 1857446

Account # 30891

Collected: 08/30/2017 15:05

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/16/2017 14:36

Agawan MA 01001

73305 SDG#: SAI28-05

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		SW-846 6020A	mg/l	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.300	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0169	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0471	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0010 U	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00015 J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	7.95	0.0045	0.0100	0.0200	5
06038	Molybdenum	7439-98-7	0.0021	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0019 J	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0075 U	0.0039	0.0075	0.0300	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06026	Barium	SW-846 6020A	1	172771063903D	10/12/2017 11:47	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06031	Chromium	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06032	Cobalt	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06033	Copper	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06037	Manganese	SW-846 6020A	1	172771063903A	10/15/2017 23:59	Sarah L Burt	5
06038	Molybdenum	SW-846 6020A	1	172771063903C	10/12/2017 11:47	Choon Y Tian	1
06039	Nickel	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06041	Selenium	SW-846 6020A	1	172771063903B	10/12/2017 11:47	Choon Y Tian	1
06042	Silver	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06048	Vanadium	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
06049	Zinc	SW-846 6020A	1	172771063903A	10/12/2017 11:47	Choon Y Tian	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063903	10/08/2017 21:45	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: SC38733-04 Groundwater

ELLE Sample # WW 9240407

Project Name: SC38733

ELLE Group # 1857446

Account # 30891

Collected: 08/30/2017 10:10

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/16/2017 14:36

Agawan MA 01001

73304 SDG#: SAI28-04BKG

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		SW-846 6020A	mg/l	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0232	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0106	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0581	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0010 U	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00025 U	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	3.08	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00050 U	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0262	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0128 J	0.0039	0.0075	0.0300	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06026	Barium	SW-846 6020A	1	172771063903D	10/15/2017 23:52	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06031	Chromium	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06032	Cobalt	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06033	Copper	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06037	Manganese	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06038	Molybdenum	SW-846 6020A	1	172771063903C	10/12/2017 11:12	Choon Y Tian	1
06039	Nickel	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06041	Selenium	SW-846 6020A	1	172771063903B	10/12/2017 11:12	Choon Y Tian	1
06042	Silver	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06048	Vanadium	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
06049	Zinc	SW-846 6020A	1	172771063903A	10/12/2017 11:12	Choon Y Tian	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063903	10/08/2017 21:45	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: SC38733-01 Groundwater

ELLE Sample # WW 9240404

Project Name: SC38733

ELLE Group # 1857446

Account # 30891

Collected: 08/30/2017 10:52

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/16/2017 14:36

Agawan MA 01001

73301 SDG#: SAI28-01

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		SW-846 6020A	mg/l	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0020 U	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0062	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0041	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.00078 J	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.00086 J	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00025 U	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	0.0334	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00050 U	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0045	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.0014	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0136 J	0.0039	0.0075	0.0300	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06026	Barium	SW-846 6020A	1	172771063903D	10/12/2017 11:31	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06031	Chromium	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06032	Cobalt	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06033	Copper	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06037	Manganese	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06038	Molybdenum	SW-846 6020A	1	172771063903C	10/12/2017 11:31	Choon Y Tian	1
06039	Nickel	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06041	Selenium	SW-846 6020A	1	172771063903B	10/12/2017 11:31	Choon Y Tian	1
06042	Silver	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06048	Vanadium	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
06049	Zinc	SW-846 6020A	1	172771063903A	10/12/2017 11:31	Choon Y Tian	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063903	10/08/2017 21:45	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: SC38733-02 Groundwater

ELLE Sample # WW 9240405

Project Name: SC38733

ELLE Group # 1857446

Account # 30891

Collected: 08/30/2017 14:55

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/16/2017 14:36

Agawan MA 01001

73302 SDG#: SAI28-02

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		SW-846 6020A	mg/l	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0020 U	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0063	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0012	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0029 J	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00025 U	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	0.0307	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00050 U	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0064	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0093 J	0.0039	0.0075	0.0300	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06026	Barium	SW-846 6020A	1	172771063903D	10/12/2017 11:34	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06031	Chromium	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06032	Cobalt	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06033	Copper	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06037	Manganese	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06038	Molybdenum	SW-846 6020A	1	172771063903C	10/12/2017 11:34	Choon Y Tian	1
06039	Nickel	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06041	Selenium	SW-846 6020A	1	172771063903B	10/12/2017 11:34	Choon Y Tian	1
06042	Silver	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06048	Vanadium	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
06049	Zinc	SW-846 6020A	1	172771063903A	10/12/2017 11:34	Choon Y Tian	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063903	10/08/2017 21:45	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 245.1/7470A****TF1-GZ-112-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-03 File ID: 092117-041
Sampled: 08/30/17 14:20 Prepared: 09/16/17 14:00
% Solids: Preparation: EPA200/SW7000 Series Initial/Final: 20 ml / 20 ml
Batch: 1715599 Sequence: S710178 Calibration: 1711039
Instrument: Mercury4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 245.1/7470A****TF1-GZ-118-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-05 File ID: 092117-049
Sampled: 08/30/17 15:05 Prepared: 09/16/17 14:00
% Solids: Preparation: EPA200/SW7000 Series Initial/Final: 20 ml / 20 ml
Batch: 1715599 Sequence: S710178 Calibration: 1711039
Instrument: Mercury4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 245.1/7470A****TF1-MW-1005-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-04 File ID: 092117-042
Sampled: 08/30/17 10:10 Prepared: 09/16/17 14:00
% Solids: Preparation: EPA200/SW7000 Series Initial/Final: 20 ml / 20 ml
Batch: 1715599 Sequence: S710178 Calibration: 1711039
Instrument: Mercury4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 245.1/7470A****TF1-MW-1007-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-01 File ID: 092117-039
Sampled: 08/30/17 10:52 Prepared: 09/16/17 14:00
% Solids: Preparation: EPA200/SW7000 Series Initial/Final: 20 ml / 20 ml
Batch: 1715599 Sequence: S710178 Calibration: 1711039
Instrument: Mercury4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 245.1/7470A****TF1-MW-1007D-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-02 File ID: 092117-040
Sampled: 08/30/17 14:55 Prepared: 09/16/17 14:00
% Solids: Preparation: EPA200/SW7000 Series Initial/Final: 20 ml / 20 ml
Batch: 1715599 Sequence: S710178 Calibration: 1711039
Instrument: Mercury4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-GZ-112-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-03 File ID: DT00L Alk 2017-09-01 1418-019
 Sampled: 08/30/17 14:20 Prepared: 09/01/17 10:30 Analyzed: 09/01/17 15:56
 % Solids: Preparation: General Preparation Initial/Final: 100 ml / 50 ml
 Batch: 1715035 Sequence: Calibration:
 Instrument: Titration
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	95.0		1	0.524	1.50	2.00

FORM I - INORGANIC ANALYSIS DATA SHEET**SM2320B (97, 11)****TF1-GZ-118-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-05 File ID: DTOOL Alk 2017-09-01 1418-026
Sampled: 08/30/17 15:05 Prepared: 09/01/17 10:30 Analyzed: 09/01/17 16:26
% Solids: Preparation: General Preparation Initial/Final: 100 ml / 50 ml
Batch: 1715035 Sequence: Calibration:
Instrument: Titration
Reported to: LOD

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	151		1	0.524	1.50	2.00

FORM I - INORGANIC ANALYSIS DATA SHEET**SM2320B (97, 11)****TF1-MW-1005-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-04 File ID: DTOOL Alk 2017-09-01 1418-02(
Sampled: 08/30/17 10:10 Prepared: 09/01/17 10:30 Analyzed: 09/01/17 16:03
% Solids: Preparation: General Preparation Initial/Final: 100 ml / 50 ml
Batch: 1715035 Sequence: Calibration:
Instrument: Titration
Reported to: LOD

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	25.6		1	0.524	1.50	2.00

FORM I - INORGANIC ANALYSIS DATA SHEET**SM2320B (97, 11)****TF1-MW-1007-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-01 File ID: DTOOL Alk 2017-09-01 1418-01
Sampled: 08/30/17 10:52 Prepared: 09/01/17 10:30 Analyzed: 09/01/17 15:51
% Solids: Preparation: General Preparation Initial/Final: 100 ml / 50 ml
Batch: 1715035 Sequence: Calibration:
Instrument: Titration
Reported to: LOD

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	19.7		1	0.524	1.50	2.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-MW-1007D-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Project Number: 112608005-WE15 Received: 08/31/17 17:30
 Matrix: Ground Water Laboratory ID: SC38733-02 File ID: DT00L Alk 2017-09-01 1418-018
 Sampled: 08/30/17 14:55 Prepared: 09/01/17 10:30 Analyzed: 09/01/17 15:54
 % Solids: Preparation: General Preparation Initial/Final: 100 ml / 50 ml
 Batch: 1715035 Sequence: Calibration:
 Instrument: Titration
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	11.7		1	0.524	1.50	2.00

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 300.0****TF1-GZ-112-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-03 File ID: 083117-041
Sampled: 08/30/17 14:20 Prepared: 08/31/17 14:00 Analyzed: 08/31/17 19:53
% Solids: Preparation: General Preparation Initial/Final: 5 ml / 5 ml
Batch: 1714974 Sequence: S709461 Calibration: 1710011
Instrument: IC3
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	10.4		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO4	1.00	U	1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.009	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 300.0****TF1-GZ-118-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-05 File ID: 083117-042
Sampled: 08/30/17 15:05 Prepared: 08/31/17 14:00 Analyzed: 08/31/17 20:09
% Solids: Preparation: General Preparation Initial/Final: 5 ml / 5 ml
Batch: 1714974 Sequence: S709461 Calibration: 1710011
Instrument: IC3
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	8.41		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO ₄	75.9		3	0.922	3.00	3.00
14797-55-8	Nitrate as N	0.100	U	1	0.009	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 300.0**

TF1-MW-1005-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-04 File ID: 083117-037
Sampled: 08/30/17 10:10 Prepared: 08/31/17 14:00 Analyzed: 08/31/17 18:49
% Solids: Preparation: General Preparation Initial/Final: 5 ml / 5 ml
Batch: 1714974 Sequence: S709461 Calibration: 1710011
Instrument: IC3
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	8.43		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO4	21.5		1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.009	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 300.0****TF1-MW-1007-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-01 File ID: 083117-039
Sampled: 08/30/17 10:52 Prepared: 08/31/17 14:00 Analyzed: 08/31/17 19:21
% Solids: Preparation: General Preparation Initial/Final: 5 ml / 5 ml
Batch: 1714974 Sequence: S709461 Calibration: 1710011
Instrument: IC3
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	27.3		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO ₄	9.91		1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.707		1	0.009	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET**EPA 300.0****TF1-MW-1007D-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-02 File ID: 083117-040
Sampled: 08/30/17 14:55 Prepared: 08/31/17 14:00 Analyzed: 08/31/17 19:37
% Solids: Preparation: General Preparation Initial/Final: 5 ml / 5 ml
Batch: 1714974 Sequence: S709461 Calibration: 1710011
Instrument: IC3
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	23.9		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO ₄	10.3		1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.519		1	0.009	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET**SM18-22 5210B****TF1-GZ-112-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-03 File ID:
Sampled: 08/30/17 14:20 Prepared: 09/01/17 09:00 Analyzed: 09/07/17 17:07
% Solids: Preparation: General Preparation Initial/Final: 300 ml / 300 ml
Batch: 1715070 Sequence: S707958 Calibration: 1707032
Instrument: Spec 1
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00

FORM I - INORGANIC ANALYSIS DATA SHEET
SM18-22 5210B

TF1-GZ-118-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-05 File ID:
Sampled: 08/30/17 15:05 Prepared: 09/01/17 09:00 Analyzed: 09/07/17 17:07
% Solids: Preparation: General Preparation Initial/Final: 300 ml / 300 ml
Batch: 1715070 Sequence: S707958 Calibration: 1707032
Instrument: Spec 1
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	3.00		1	2.74	2.97	3.00

FORM I - INORGANIC ANALYSIS DATA SHEET
SM18-22 5210B

TF1-MW-1005-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-04 File ID:
Sampled: 08/30/17 10:10 Prepared: 09/01/17 09:00 Analyzed: 09/07/17 17:07
% Solids: Preparation: General Preparation Initial/Final: 300 ml / 300 ml
Batch: 1715070 Sequence: S707958 Calibration: 1707032
Instrument: Spec 1
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00

FORM I - INORGANIC ANALYSIS DATA SHEET
SM18-22 5210B

TF1-MW-1007-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-01 File ID:
Sampled: 08/30/17 10:52 Prepared: 09/01/17 09:00 Analyzed: 09/07/17 17:07
% Solids: Preparation: General Preparation Initial/Final: 300 ml / 300 ml
Batch: 1715070 Sequence: S707958 Calibration: 1707032
Instrument: Spec 1
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00

FORM I - INORGANIC ANALYSIS DATA SHEET
SM18-22 5210B

TF1-MW-1007D-083017

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-02 File ID:
Sampled: 08/30/17 14:55 Prepared: 09/01/17 09:00 Analyzed: 09/07/17 17:07
% Solids: Preparation: General Preparation Initial/Final: 300 ml / 300 ml
Batch: 1715070 Sequence: S707958 Calibration: 1707032
Instrument: Spec 1
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00

FORM I - INORGANIC ANALYSIS DATA SHEET**SM5310B (00, 11)****TF1-GZ-112-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-03 File ID: 1715538-025
Sampled: 08/30/17 14:20 Prepared: 09/12/17 08:12 Analyzed: 09/12/17 16:05
% Solids: Preparation: General Preparation Initial/Final: 40 ml / 40 ml
Batch: 1715538 Sequence: S708136 Calibration: 1706085
Instrument: TOC4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	1.54		1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET**SM5310B (00, 11)****TF1-GZ-118-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-05 File ID: 1715538-026
Sampled: 08/30/17 15:05 Prepared: 09/12/17 08:12 Analyzed: 09/12/17 16:21
% Solids: Preparation: General Preparation Initial/Final: 40 ml / 40 ml
Batch: 1715538 Sequence: S708136 Calibration: 1706085
Instrument: TOC4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	1.78		1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET**SM5310B (00, 11)****TF1-MW-1005-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-04 File ID: 1715538-017
Sampled: 08/30/17 10:10 Prepared: 09/12/17 08:12 Analyzed: 09/12/17 13:31
% Solids: Preparation: General Preparation Initial/Final: 40 ml / 40 ml
Batch: 1715538 Sequence: S708136 Calibration: 1706085
Instrument: TOC4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	0.504	J	1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET**SM5310B (00, 11)****TF1-MW-1007-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-01 File ID: 1715538-023
Sampled: 08/30/17 10:52 Prepared: 09/12/17 08:12 Analyzed: 09/12/17 15:33
% Solids: Preparation: General Preparation Initial/Final: 40 ml / 40 ml
Batch: 1715538 Sequence: S708136 Calibration: 1706085
Instrument: TOC4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	0.469	J	1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET**SM5310B (00, 11)****TF1-MW-1007D-083017**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Project Number: 112608005-WE15 Received: 08/31/17 17:30
Matrix: Ground Water Laboratory ID: SC38733-02 File ID: 1715538-024
Sampled: 08/30/17 14:55 Prepared: 09/12/17 08:12 Analyzed: 09/12/17 15:49
% Solids: Preparation: General Preparation Initial/Final: 40 ml / 40 ml
Batch: 1715538 Sequence: S708136 Calibration: 1706085
Instrument: TOC4
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	0.886	J	1	0.238	0.500	1.00

Sample Description: SC38733-06 Grab Water

ELLE Sample # WW 9192955

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1846517

Account # 30891

Collected: 08/30/2017 10:52

Eurofins Spectrum Analytical

Submitted: 09/06/2017 09:50

646 Camp Ave

Reported: 09/20/2017 23:02

North Kingstown RI 02582

O3706 SDG#: THO37-06

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Misc. Organics		EPA 537 Version	ng/l	ng/l	ng/l	ng/l	
		1.1 Modified					
10954	Perfluorobutanesulfonate	375-73-5	3 U	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	10 U	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	2 U	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	3 U	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	2 U	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6 U	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	2 U	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	2 U	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOSA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17250004	09/12/2017 10:54	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17250004	09/10/2017 08:15	Danielle D McCully	1

*=This limit was used in the evaluation of the final result

Sample Description: SC38733-03 Grab Water

ELLE Sample # WW 9192950

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1846517

Account # 30891

Collected: 08/30/2017 14:20

Eurofins Spectrum Analytical

Submitted: 09/06/2017 09:50

646 Camp Ave

Reported: 09/20/2017 23:02

North Kingstown RI 02582

O3703 SDG#: THO37-03

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum		SW-846 8015B	mg/l	mg/l	mg/l	mg/l	
Hydrocarbons							
02740	C8-C44	n.a.	2.3	0.056	0.11	0.22	1
02740	Total TPH	n.a.	2.3	0.056	0.11	0.22	1
The holding time was not met. The sample was submitted to the laboratory with insufficient time remaining in the holding time.							

Misc. Organics		EPA 537 Version	ng/l	ng/l	ng/l	ng/l	
		1.1 Modified					
10954	Perfluorobutanesulfonate	375-73-5	3	U	0.8	3	1
10954	Perfluorobutanoic Acid	375-22-4	10	U	3	10	1
10954	Perfluorodecanesulfonate	335-77-3	6	U	2	6	1
10954	Perfluorodecanoic acid	335-76-2	2		0.5	2	1
10954	Perfluorododecanoic acid	307-55-1	2	U	0.5	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6	U	2	6	1
10954	Perfluoroheptanoic acid	375-85-9	2	J	0.5	2	1
10954	Perfluorohexanesulfonate	355-46-4	3		1	3	1
10954	Perfluorohexanoic acid	307-24-4	2		0.6	2	1
10954	Perfluorononanoic acid	375-95-1	2	U	0.6	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6	U	2	6	1
10954	Perfluorooctanoic acid	335-67-1	2		0.6	2	1
10954	Perfluoropentanoic Acid	2706-90-3	3		0.5	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2	U	0.5	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2	U	0.5	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3	U	1	3	1
10954	PFOSA	754-91-6	9	U	3	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172490041A	09/08/2017 10:08	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172490041A	09/07/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17250004	09/12/2017 09:52	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17250004	09/10/2017 08:15	Danielle D McCully	1

*=This limit was used in the evaluation of the final result

Sample Description: SC38733-05 Grab Water

ELLE Sample # WW 9192954

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1846517

Account # 30891

Collected: 08/30/2017 15:05

Eurofins Spectrum Analytical

Submitted: 09/06/2017 09:50

646 Camp Ave

Reported: 09/20/2017 23:02

North Kingstown RI 02582

O3705 SDG#: THO37-05

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum		SW-846 8015B	mg/l	mg/l	mg/l	mg/l	
Hydrocarbons							
02740	C8-C44	n.a.	0.13 J	0.051	0.10	0.20	1
02740	Total TPH	n.a.	0.13 J	0.051	0.10	0.20	1
The holding time was not met. The sample was submitted to the laboratory with insufficient time remaining in the holding time.							

Misc. Organics		EPA 537 Version	ng/l	ng/l	ng/l	ng/l	
		1.1 Modified					
10954	Perfluorobutanesulfonate	375-73-5	1 J	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	5 J	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	4	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	11	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	7	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	0.9 J	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6 U	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	6	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	8	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOSA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172490041A	09/08/2017 11:35	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172490041A	09/07/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17250004	09/12/2017 10:34	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17250004	09/10/2017 08:15	Danielle D McCully	1

*=This limit was used in the evaluation of the final result

Sample Description: SC38733-04 Grab Water

ELLE Sample # WW 9192951

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1846517

Account # 30891

Collected: 08/30/2017 10:10

Eurofins Spectrum Analytical

Submitted: 09/06/2017 09:50

646 Camp Ave

Reported: 09/20/2017 23:02

North Kingstown RI 02582

O3704 SDG#: THO37-04BKG

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum		SW-846 8015B	mg/l	mg/l	mg/l	mg/l	
Hydrocarbons							
02740	C8-C44	n.a.	0.13 J	0.051	0.10	0.20	1
02740	Total TPH	n.a.	0.13 J	0.051	0.10	0.20	1
The holding time was not met. The sample was submitted to the laboratory with insufficient time remaining in the holding time.							

Misc. Organics		EPA 537 Version	ng/l	ng/l	ng/l	ng/l	
		1.1 Modified					
10954	Perfluorobutanesulfonate	375-73-5	18	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	11	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	8	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	7	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	150	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	37	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	490	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	15	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	16	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOSA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172490041A	09/08/2017 10:30	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172490041A	09/07/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17255012	09/15/2017 23:04	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	2	17255012	09/13/2017 10:50	Pamela Rothharpt	1

*=This limit was used in the evaluation of the final result

Sample Description: SC38733-01 Grab Water

ELLE Sample # WW 9192948

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1846517

Account # 30891

Collected: 08/30/2017 10:52

Eurofins Spectrum Analytical

Submitted: 09/06/2017 09:50

646 Camp Ave

Reported: 09/20/2017 23:02

North Kingstown RI 02582

O3701 SDG#: THO37-01

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum		SW-846 8015B	mg/l	mg/l	mg/l	mg/l	
Hydrocarbons							
02740	C8-C44	n.a.	0.10 U	0.052	0.10	0.21	1
02740	Total TPH	n.a.	0.10 U	0.052	0.10	0.21	1
The holding time was not met. The sample was submitted to the laboratory with insufficient time remaining in the holding time.							
Misc. Organics		EPA 537 Version	ng/l	ng/l	ng/l	ng/l	
		1.1 Modified					
10954	Perfluorobutanesulfonate	375-73-5	3 U	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	10 U	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	0.8 J	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	2 J	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	1 J	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6 U	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	2 J	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	1 J	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOSA	754-91-6	9 U	3	9	9	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172490041A	09/08/2017 09:24	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172490041A	09/07/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17250004	09/12/2017 09:11	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17250004	09/10/2017 08:15	Danielle D McCully	1

*=This limit was used in the evaluation of the final result

Sample Description: SC38733-02 Grab Water

ELLE Sample # WW 9192949

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1846517

Account # 30891

Collected: 08/30/2017 14:55

Eurofins Spectrum Analytical

Submitted: 09/06/2017 09:50

646 Camp Ave

Reported: 09/20/2017 23:02

North Kingstown RI 02582

O3702 SDG#: THO37-02

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum		SW-846 8015B	mg/l	mg/l	mg/l	mg/l	
Hydrocarbons							
02740	C8-C44	n.a.	0.12 J	0.051	0.10	0.20	1
02740	Total TPH	n.a.	0.12 J	0.051	0.10	0.20	1
The holding time was not met. The sample was submitted to the laboratory with insufficient time remaining in the holding time.							

Misc. Organics		EPA 537 Version	ng/l	ng/l	ng/l	ng/l	
		1.1 Modified					
10954	Perfluorobutanesulfonate	375-73-5	3 U	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	10 U	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	1 J	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	2 J	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	2 J	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6 U	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	3 U	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	2 J	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOSA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172490041A	09/08/2017 09:46	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172490041A	09/07/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17250004	09/12/2017 09:32	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17250004	09/10/2017 08:15	Danielle D McCully	1

*=This limit was used in the evaluation of the final result

APPENDIX C

SUPPORT DOCUMENTATION

SDGSC38733

SC38733 General Narrative

Eurofins Spectrum Analytical, Inc. submits the enclosed data package for the site characterization of WE15 Tank Farm 1 NAVSTA Newport. Samples submitted for analysis by Tetra Tech, Inc. - Salem, NH. Under this deliverable, analysis results are presented for one QC sample and six Ground Water samples submitted on August 31st, 2017.

The analyses were performed according to USEPA SW846 method analytical guidelines and other methods. In addition the analyses were performed according to criteria dictated by National Environmental Laboratory Accreditation Conference (NELAC) and in accordance with project contract requirements and chain of custody forms.

Observations and/or deviations observed for specific analyses can be found in the analysis narrative:

1. Overall Observations:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual Integrations are coded to provide the data reviewer justification for such action. The codes are labeled on corresponding raw data for GC/MS and GC analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Scanned copies of logbook pages are included, with the originals are archived within the laboratory.

The pages in this report have been numbered consecutively, starting with the general narrative and ending with the page labeled as "Last Page of data Report".

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 electronic data package, has been authorized by the laboratory director as verified by the following signature.



Christina A. White
Laboratory Director

Date: 12/04/2017

Sample Identification and Analytical Requirements Summary

Project Name: WE15 Tank Farm 1 NAVSTA Newport

SDG:

SC38733

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		VOC Method #	SVOC Method #	GC Method #	Metals	Other
TF1-MW-1007-083017	SC38733-01	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-MW-1007D-083017	SC38733-02	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-GZ-112-083017	SC38733-03	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-MW-1005-083017	SC38733-04	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-GZ-118-083017	SC38733-05	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-FRB-083017	SC38733-06					EPA 537 Rev. 1.1 modified
TF1-TB-083017	SC38733-07	SW846 8260C				



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: TETRA TECH
5 INDUSTRIAL WAY
SUITE 2B
SALEM NH 03079Telephone #: 603-328-1469
Project Mgr: STEVE PARKERInvoice To: MIKE DREYDEN
EARTH TOXICS INC.
8275 S. EASTERN AVE
LAS VEGAS NV 89123

P.O No.: _____ Quote #: _____

Project No: 112608005-WE15Site Name: TANK FARM 1, NAUSTA NEWPORTLocation: PORTSMOUTH State: RISampler(s): D. WHALEN, W. PRYOR,
K. LAUMONTAGNEF=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= _____ 12= _____

List Preservative Code below:

QA/QC Reporting Notes:

* additional charges may apply

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= QC X2= _____ X3= _____

G= Grab

C=Composite

Containers

Analysis

Check if chlorinated

MA DEP MCP CAM Report? ☐ Yes ☐ NoCT 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:

Lab ID:

Sample ID:

Date:

Time:

Type

Matrix

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

Pesticides
(80813)PCs
(Insects, Rodent)☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Relinquished by:

Received by:

Date:

Time:

Temp °C

☒ EDD format:☒ E-mail to:stephen.parker@tetratech.comCondition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Eurofins Lancaster Laboratories Environmental

SC38733-05	TF1-GZ-118-08301 As Total ICPMS 6020 DoD	Aqueous	30-Aug-17 15:05	26-Feb-18 15:05	13-Oct-17 15:00
SC38733-05	TF1-GZ-118-08301 PFC Sub	Aqueous	30-Aug-17 15:05	13-Sep-17 15:05	19-Sep-17 16:00
SC38733-05	TF1-GZ-118-08301 Zn Total ICPMS 6020 DoD	Aqueous	30-Aug-17 15:05	26-Feb-18 15:05	13-Oct-17 15:00
SC38733-05	TF1-GZ-118-08301 TPH C8-C44 SUB	Aqueous	30-Aug-17 15:05	06-Sep-17 15:05	19-Sep-17 16:00
SC38733-05	TF1-GZ-118-08301 Ag Total ICPMS 6020 DoD	Aqueous	30-Aug-17 15:05	26-Feb-18 15:05	13-Oct-17 15:00
SC38733-05	TF1-GZ-118-08301 Mn Total ICPMS 6020 DoD	Aqueous	30-Aug-17 15:05	26-Feb-18 15:05	13-Oct-17 15:00
SC38733-06	TF1-FRB-083017 PFC Sub	Aqueous	30-Aug-17 10:52	13-Sep-17 10:52	19-Sep-17 16:00

**Sample Reference List for SDG Number THO37
with a Data Package Type of I-DOD**

30891 - Eurofins Spectrum Analytical
Project: WE15 Tank Farm 1 NAVSTA Newport

Lab Sample Number	Client Sample ID	Collection Date	Date Received
9192948	SC38733-01	08/30/2017 10:52	09/06/2017 09:50
9192949	SC38733-02	08/30/2017 14:55	09/06/2017 09:50
9192950	SC38733-03	08/30/2017 14:20	09/06/2017 09:50
9192951	SC38733-04	08/30/2017 10:10	09/06/2017 09:50
9192952	SC38733-04MS	08/30/2017 10:10	09/06/2017 09:50
9192953	SC38733-04MSD	08/30/2017 10:10	09/06/2017 09:50
9192954	SC38733-05	08/30/2017 15:05	09/06/2017 09:50
9192955	SC38733-06	08/30/2017 10:52	09/06/2017 09:50

SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Collection Information</u>	<u>ELLE#</u>
SC38733-01 Grab Water	08/30/2017 10:52	9192948
SC38733-02 Grab Water	08/30/2017 14:55	9192949
SC38733-03 Grab Water	08/30/2017 14:20	9192950
SC38733-04 Grab Water	08/30/2017 10:10	9192951
SC38733-04MS Grab Water	08/30/2017 10:10	9192952
SC38733-04MSD Grab Water	08/30/2017 10:10	9192953
SC38733-05 Grab Water	08/30/2017 15:05	9192954
SC38733-06 Grab Water	08/30/2017 10:52	9192955

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Project Name: WE15 Tank Farm 1 NAVSTA Newport
LL Group #: 1846517

General Comments:

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

For dual column analyses, the surrogate (for multi-surrogate tests, at least one surrogate) must be within the acceptance limits on at least one of the two columns.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:**SW-846 8015B, GC Petroleum Hydrocarbons**

Sample #s: 9192948, 9192949, 9192950, 9192951, 9192952, 9192953, 9192954

The holding time was not met. The sample was submitted to the laboratory with insufficient time remaining in the holding time.

EPA 537 Version 1.1 Modified, Misc. Organics

Sample #s: 9192948, 9192949, 9192950, 9192951, 9192952, 9192953, 9192954, 9192955

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Batch #: 17250004 (Sample number(s): 9192948-9192950, 9192954-9192955 UNSPK: 9192951)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Perfluorooctanoic acid, Perfluorohexanoic acid, Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluoro-octanesulfonate, Perfluorobutanoic Acid, Perfluoropentanoic Acid, Perfluoroheptanoic acid, Perfluoroheptanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Perfluorodecanesulfonate

The recovery(ies) for one or more surrogates were below the acceptance window for sample(s) 9192948, 9192949, 9192950, 9192954, 9192955, Blank, LCS, MS, MSD

Batch #: 17255012 (Sample number(s): 9192951-9192953 UNSPK: 9192951)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Perfluoro-octanesulfonate, Perfluorohexanesulfonate

The recovery(ies) for one or more surrogates were below the acceptance window for sample(s) 9192951, 9192952, 9192953, Blank, LCS, MS, MSD

Sample Administration
Receipt Documentation Log

Doc Log ID: 193494



Group Number(s): 1846517

Client: SPECTRUM ANALYTICAL

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>09/06/2017 9:50</u>
Number of Packages:	<u>4</u>	Number of Projects:	<u>1</u>

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Wendy Wakeley (1669) at 13:07 on 09/06/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT42-01	0.4	DT	Wet	Y	Bagged	N
2	DT42-01	2.4	DT	Wet	Y	Bagged	N
3	DT42-01	0.5	DT	Wet	Y	Bagged	N
4	DT42-01	3.6	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
C	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	non-detect
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	µg	microgram(s)
m3	cubic meter(s)	µL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.

Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

SW846 8260C

CROSS REFERENCE TABLE

SW846 8260C

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>		

Client Sample ID:	Lab Sample ID:
<u>TF1-MW-1007-083017</u>	<u>SC38733-01</u>
<u>TF1-MW-1007D-083017</u>	<u>SC38733-02</u>
<u>TF1-GZ-112-083017</u>	<u>SC38733-03</u>
<u>TF1-GZ-112-083017</u>	<u>SC38733-03RE1</u>
<u>TF1-MW-1005-083017</u>	<u>SC38733-04</u>
<u>TF1-GZ-118-083017</u>	<u>SC38733-05</u>
<u>TF1-TB-083017</u>	<u>SC38733-07</u>

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38733

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SW846 8260C.

IV. PREPARATION

Aqueous samples were prepared according to SW846 5030 Water MS.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 8260C:

HPV3 details: GC/MS EST Centurion Autosampler
EST Evolution Sample Concentrator
Supelco vocarb 3000 (K) trap and conditions used
Agilent 7890A series Gas Chromatograph
Agilent 5975C Mass Selective Detector
Column - DB-VRX, 20 meters, 0.18mm diameter, 1.0um film

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria with the following exceptions:

In calibration 1709004:

Analyte quantified by quadratic type calibration: 1,2,3-Trichlorobenzene, 2-Hexanone (MBK), Bromoform, cis-1,3-Dichloropropene, Dibromochloromethane, trans-1,3-Dichloropropene

This affected the following samples:

S707890-CCV2, 1715197-BS1, 1715197-BSD1, 1715197-MS1, 1715197-MSD1, 1715452-BLK1, 1715452-BS1, 1715452-BSD1, 1715197-BLK1, S707890-CCV1, TF1-TB-083017, S708033-CCV1, S708033-CCV2, TF1-GZ-112-083017, TF1-GZ-118-083017, TF1-MW-1005-083017, TF1-MW-1007-083017, TF1-MW-1007D-083017, S707839-ICV1

B. Blanks:

All blanks were within the acceptance criteria.

C. Surrogates:

All method criteria were met.

D. Spikes:**1. Laboratory Control Samples (LCS):**

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715197 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met with the following exceptions:

Bromomethane in batch 1715197, lab sample 1715197-MSD1 from source sample TF1-MW-1005-083017 (SC38733-04): The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

E. Duplicates:

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met with the following exceptions:

In batch 1715197, sample TF1-GZ-118-083017 (SC38733-05): Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.

Cyclohexane, Ethylbenzene, m,p-Xylene in batch 1715197, sample TF1-GZ-112-083017 (SC38733-03): This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

In batch 1715452, sample TF1-GZ-112-083017 (SC38733-03RE1): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1715197-BLK1)	102	104	102	104			0
LCS (1715197-BS1)	99	101	101	104			0
LCS Dup (1715197-BSD1)	101	105	101	104			0
Matrix Spike (1715197-MS1)	98	106	100	105			0
Matrix Spike Dup (1715197-MSD1)	99	104	101	106			0
TF1-MW-1007-083017 (SC38733-01)	102	105	103	104			0
TF1-MW-1007D-083017 (SC38733-02)	102	102	102	103			0
TF1-GZ-112-083017 (SC38733-03)	99	106	99	104			0
TF1-MW-1005-083017 (SC38733-04)	94	105	98	103			0
TF1-GZ-118-083017 (SC38733-05)	96	103	98	101			0
TF1-TB-083017 (SC38733-07)	101	102	103	103			0

Control Limits

S1 = 1,2-Dichloroethane-d4 81 - 118

S2 = 4-Bromofluorobenzene 85 - 114

S3 = Dibromofluoromethane 80 - 119

S4 = Toluene-d8 89 - 112

Column to be used to flag recovery values

* Values outside of QC limits

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1715452-BLK1)	106	100	102	100			0
LCS (1715452-BS1)	105	101	100	99			0
LCS Dup (1715452-BSD1)	101	99	100	99			0
TF1-GZ-112-083017 (SC38733-03RE1)	103	101	99	100			0

Control Limits

S1 = 1,2-Dichloroethane-d4 81 - 118

S2 = 4-Bromofluorobenzene 85 - 114

S3 = Dibromofluoromethane 80 - 119

S4 = Toluene-d8 89 - 112

Column to be used to flag recovery values

* Values outside of QC limits

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-BS1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/06/17 10:13

Spike ID: 1710077

File ID: LCS0906A.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.5	107	70 - 136
Acetone	20.0	22.9	115	39 - 160
Benzene	20.0	22.7	114	79 - 120
Bromochloromethane	20.0	22.4	112	78 - 123
Bromodichloromethane	20.0	21.9	110	79 - 125
Bromoform	20.0	21.1	106	66 - 130
Bromomethane	20.0	20.0	100	53 - 141
2-Butanone (MEK)	20.0	23.2	116	56 - 143
Carbon disulfide	20.0	21.8	109	64 - 133
Carbon tetrachloride	20.0	21.7	108	72 - 136
Chlorobenzene	20.0	20.5	103	82 - 118
Chloroethane	20.0	20.4	102	60 - 138
Chloroform	20.0	21.9	110	79 - 124
Chloromethane	20.0	21.0	105	50 - 139
1,2-Dibromo-3-chloropropane	20.0	19.8	99	62 - 128
Dibromochloromethane	20.0	21.8	109	74 - 126
1,2-Dibromoethane (EDB)	20.0	23.2	116	77 - 121
1,2-Dichlorobenzene	20.0	20.0	100	80 - 119
1,3-Dichlorobenzene	20.0	21.0	105	80 - 119
1,4-Dichlorobenzene	20.0	19.1	95	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	20.7	104	32 - 152
1,1-Dichloroethane	20.0	22.1	111	77 - 125
1,2-Dichloroethane	20.0	21.7	109	73 - 128
1,1-Dichloroethene	20.0	21.9	110	71 - 131
cis-1,2-Dichloroethene	20.0	21.7	108	78 - 123
trans-1,2-Dichloroethene	20.0	23.4	117	75 - 124
1,2-Dichloropropane	20.0	20.9	105	78 - 128
cis-1,3-Dichloropropene	20.0	20.7	103	75 - 124
trans-1,3-Dichloropropene	20.0	21.6	108	73 - 127
Ethylbenzene	20.0	21.0	105	79 - 121

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-BS1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/06/17 10:13

Spike ID: 17I0077

File ID: LCS0906A.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
2-Hexanone (MBK)	20.0	21.8	109	57 - 139
Isopropylbenzene	20.0	20.4	102	72 - 131
Methyl tert-butyl ether	20.0	22.7	113	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	22.1	111	67 - 130
Methylene chloride	20.0	22.3	112	74 - 124
Styrene	20.0	21.5	108	78 - 123
1,1,2,2-Tetrachloroethane	20.0	21.2	106	71 - 121
Tetrachloroethene	20.0	22.3	112	74 - 129
Toluene	20.0	22.7	114	80 - 121
1,2,3-Trichlorobenzene	20.0	20.3	102	69 - 129
1,2,4-Trichlorobenzene	20.0	19.8	99	69 - 130
1,1,1-Trichloroethane	20.0	22.5	112	74 - 131
1,1,2-Trichloroethane	20.0	23.0	115	80 - 119
Trichloroethene	20.0	21.8	109	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	22.6	113	64 - 141
Vinyl chloride	20.0	21.5	108	58 - 137
m,p-Xylene	20.0	21.3	106	80 - 121
o-Xylene	20.0	20.9	104	78 - 122
Cyclohexane	20.0	22.4	112	71 - 130
Methyl acetate	20.0	19.9	100	56 - 136
Methylcyclohexane	20.0	22.2	111	72 - 132

File ID: LCS0906B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,2-Trichlorotrifluoroethane (Freon)	20.0	20.5	102	5	25	70 - 136
Acetone	20.0	21.8	109	5	50	39 - 160
Benzene	20.0	21.8	109	4	25	79 - 120
Bromochloromethane	20.0	22.1	110	1	25	78 - 123
Bromodichloromethane	20.0	22.4	112	2	25	79 - 125

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-BSD1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/06/17 10:42

Spike ID: 17I0077

File ID: LCS0906B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromoform	20.0	21.4	107	1	25	66 - 130
Bromomethane	20.0	20.6	103	3	50	53 - 141
2-Butanone (MEK)	20.0	19.8	99	16	50	56 - 143
Carbon disulfide	20.0	21.1	105	3	25	64 - 133
Carbon tetrachloride	20.0	20.6	103	5	25	72 - 136
Chlorobenzene	20.0	20.2	101	2	25	82 - 118
Chloroethane	20.0	19.9	100	2	50	60 - 138
Chloroform	20.0	21.6	108	2	25	79 - 124
Chloromethane	20.0	20.7	103	2	25	50 - 139
1,2-Dibromo-3-chloropropane	20.0	22.1	111	11	25	62 - 128
Dibromochloromethane	20.0	21.3	107	2	50	74 - 126
1,2-Dibromoethane (EDB)	20.0	23.0	115	0.8	25	77 - 121
1,2-Dichlorobenzene	20.0	19.7	99	1	25	80 - 119
1,3-Dichlorobenzene	20.0	20.8	104	1	25	80 - 119
1,4-Dichlorobenzene	20.0	18.7	93	2	25	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	19.6	98	6	50	32 - 152
1,1-Dichloroethane	20.0	21.6	108	2	25	77 - 125
1,2-Dichloroethane	20.0	21.6	108	0.6	25	73 - 128
1,1-Dichloroethene	20.0	21.2	106	3	25	71 - 131
cis-1,2-Dichloroethene	20.0	21.9	109	0.8	25	78 - 123
trans-1,2-Dichloroethene	20.0	22.5	113	4	25	75 - 124
1,2-Dichloropropane	20.0	21.6	108	3	25	78 - 128
cis-1,3-Dichloropropene	20.0	20.8	104	0.4	25	75 - 124
trans-1,3-Dichloropropene	20.0	20.5	102	5	25	73 - 127
Ethylbenzene	20.0	20.9	105	0.4	25	79 - 121
2-Hexanone (MBK)	20.0	23.2	116	6	25	57 - 139
Isopropylbenzene	20.0	20.2	101	1	25	72 - 131
Methyl tert-butyl ether	20.0	22.8	114	0.6	25	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	21.8	109	2	50	67 - 130
Methylene chloride	20.0	20.8	104	7	25	74 - 124

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-BSD1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/06/17 10:42

Spike ID: 1710077

File ID: LCS0906B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Styrene	20.0	21.5	107	0.2	25	78 - 123
1,1,2,2-Tetrachloroethane	20.0	21.1	105	0.6	25	71 - 121
Tetrachloroethene	20.0	21.0	105	6	25	74 - 129
Toluene	20.0	21.4	107	6	25	80 - 121
1,2,3-Trichlorobenzene	20.0	20.8	104	2	25	69 - 129
1,2,4-Trichlorobenzene	20.0	18.8	94	5	25	69 - 130
1,1,1-Trichloroethane	20.0	21.5	107	5	25	74 - 131
1,1,2-Trichloroethane	20.0	22.3	111	3	25	80 - 119
Trichloroethene	20.0	21.0	105	4	25	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	21.4	107	5	50	64 - 141
Vinyl chloride	20.0	20.8	104	3	25	58 - 137
m,p-Xylene	20.0	20.7	103	3	25	80 - 121
o-Xylene	20.0	21.4	107	2	25	78 - 122
Cyclohexane	20.0	21.2	106	5	30	71 - 130
Methyl acetate	20.0	19.8	99	0.5	30	56 - 136
Methylcyclohexane	20.0	21.0	105	5	30	72 - 132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715452

Laboratory ID: 1715452-BS1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/11/17 10:07

Spike ID: 1710206

File ID: LCS0911A.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	19.9	99	70 - 136
Acetone	20.0	23.2	116	39 - 160
Benzene	20.0	21.6	108	79 - 120
Bromochloromethane	20.0	21.0	105	78 - 123
Bromodichloromethane	20.0	23.6	118	79 - 125
Bromoform	20.0	24.1	120	66 - 130
Bromomethane	20.0	17.7	88	53 - 141
2-Butanone (MEK)	20.0	22.0	110	56 - 143
Carbon disulfide	20.0	22.1	111	64 - 133
Carbon tetrachloride	20.0	22.1	111	72 - 136
Chlorobenzene	20.0	22.7	113	82 - 118
Chloroethane	20.0	20.8	104	60 - 138
Chloroform	20.0	21.5	108	79 - 124
Chloromethane	20.0	22.0	110	50 - 139
1,2-Dibromo-3-chloropropane	20.0	24.9	124	62 - 128
Dibromochloromethane	20.0	21.4	107	74 - 126
1,2-Dibromoethane (EDB)	20.0	22.2	111	77 - 121
1,2-Dichlorobenzene	20.0	22.7	114	80 - 119
1,3-Dichlorobenzene	20.0	23.4	117	80 - 119
1,4-Dichlorobenzene	20.0	22.0	110	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	19.5	98	32 - 152
1,1-Dichloroethane	20.0	22.1	111	77 - 125
1,2-Dichloroethane	20.0	21.2	106	73 - 128
1,1-Dichloroethene	20.0	20.5	102	71 - 131
cis-1,2-Dichloroethene	20.0	21.4	107	78 - 123
trans-1,2-Dichloroethene	20.0	20.7	104	75 - 124
1,2-Dichloropropane	20.0	20.5	103	78 - 128
cis-1,3-Dichloropropene	20.0	21.1	105	75 - 124
trans-1,3-Dichloropropene	20.0	21.9	110	73 - 127
Ethylbenzene	20.0	23.3	117	79 - 121

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715452

Laboratory ID: 1715452-BS1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/11/17 10:07

Spike ID: 17I0206

File ID: LCS0911A.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
2-Hexanone (MBK)	20.0	21.9	110	57 - 139
Isopropylbenzene	20.0	22.5	113	72 - 131
Methyl tert-butyl ether	20.0	22.9	115	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	21.0	105	67 - 130
Methylene chloride	20.0	20.8	104	74 - 124
Styrene	20.0	23.6	118	78 - 123
1,1,2,2-Tetrachloroethane	20.0	23.9	120	71 - 121
Tetrachloroethene	20.0	21.5	108	74 - 129
Toluene	20.0	21.2	106	80 - 121
1,2,3-Trichlorobenzene	20.0	22.7	114	69 - 129
1,2,4-Trichlorobenzene	20.0	21.5	107	69 - 130
1,1,1-Trichloroethane	20.0	22.4	112	74 - 131
1,1,2-Trichloroethane	20.0	22.7	114	80 - 119
Trichloroethene	20.0	21.3	106	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	22.8	114	64 - 141
Vinyl chloride	20.0	21.9	109	58 - 137
m,p-Xylene	20.0	23.7	119	80 - 121
o-Xylene	20.0	23.9	119	78 - 122
Cyclohexane	20.0	22.0	110	71 - 130
Methyl acetate	20.0	17.8	89	56 - 136
Methylcyclohexane	20.0	21.6	108	72 - 132

File ID: LCS0911B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,2-Trichlorotrifluoroethane (Freon)	20.0	19.1	95	4	25	70 - 136
Acetone	20.0	22.4	112	4	50	39 - 160
Benzene	20.0	19.7	98	10	25	79 - 120
Bromochloromethane	20.0	19.4	97	8	25	78 - 123
Bromodichloromethane	20.0	20.7	104	13	25	79 - 125

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715452

Laboratory ID: 1715452-BSD1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/11/17 10:36

Spike ID: 1710206

File ID: LCS0911B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromoform	20.0	22.4	112	7	25	66 - 130
Bromomethane	20.0	17.7	88	0.2	50	53 - 141
2-Butanone (MEK)	20.0	19.0	95	14	50	56 - 143
Carbon disulfide	20.0	19.4	97	13	25	64 - 133
Carbon tetrachloride	20.0	19.2	96	14	25	72 - 136
Chlorobenzene	20.0	20.6	103	10	25	82 - 118
Chloroethane	20.0	20.6	103	1	50	60 - 138
Chloroform	20.0	19.3	96	11	25	79 - 124
Chloromethane	20.0	19.4	97	12	25	50 - 139
1,2-Dibromo-3-chloropropane	20.0	23.1	116	7	25	62 - 128
Dibromochloromethane	20.0	20.2	101	6	50	74 - 126
1,2-Dibromoethane (EDB)	20.0	20.2	101	9	25	77 - 121
1,2-Dichlorobenzene	20.0	21.0	105	8	25	80 - 119
1,3-Dichlorobenzene	20.0	21.2	106	10	25	80 - 119
1,4-Dichlorobenzene	20.0	20.8	104	6	25	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	17.1	86	13	50	32 - 152
1,1-Dichloroethane	20.0	19.9	99	11	25	77 - 125
1,2-Dichloroethane	20.0	19.6	98	8	25	73 - 128
1,1-Dichloroethene	20.0	19.2	96	7	25	71 - 131
cis-1,2-Dichloroethene	20.0	19.0	95	12	25	78 - 123
trans-1,2-Dichloroethene	20.0	19.7	98	5	25	75 - 124
1,2-Dichloropropane	20.0	18.9	94	8	25	78 - 128
cis-1,3-Dichloropropene	20.0	19.0	95	10	25	75 - 124
trans-1,3-Dichloropropene	20.0	20.0	100	9	25	73 - 127
Ethylbenzene	20.0	20.6	103	13	25	79 - 121
2-Hexanone (MBK)	20.0	19.9	100	10	25	57 - 139
Isopropylbenzene	20.0	20.4	102	10	25	72 - 131
Methyl tert-butyl ether	20.0	23.4	117	2	25	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	19.6	98	7	50	67 - 130
Methylene chloride	20.0	18.3	92	13	25	74 - 124

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715452

Laboratory ID: 1715452-BSD1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/11/17 10:36

Spike ID: 1710206

File ID: LCS0911B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Styrene	20.0	20.3	102	15	25	78 - 123
1,1,2,2-Tetrachloroethane	20.0	21.0	105	13	25	71 - 121
Tetrachloroethene	20.0	18.6	93	14	25	74 - 129
Toluene	20.0	18.9	95	12	25	80 - 121
1,2,3-Trichlorobenzene	20.0	22.1	111	3	25	69 - 129
1,2,4-Trichlorobenzene	20.0	20.2	101	6	25	69 - 130
1,1,1-Trichloroethane	20.0	19.9	99	12	25	74 - 131
1,1,2-Trichloroethane	20.0	19.9	100	13	25	80 - 119
Trichloroethene	20.0	19.5	98	9	25	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	19.6	98	15	50	64 - 141
Vinyl chloride	20.0	20.1	101	8	25	58 - 137
m,p-Xylene	20.0	20.8	104	13	25	80 - 121
o-Xylene	20.0	20.9	104	13	25	78 - 122
Cyclohexane	20.0	19.6	98	11	30	71 - 130
Methyl acetate	20.0	18.3	92	3	30	56 - 136
Methylcyclohexane	20.0	19.4	97	11	30	72 - 132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-MS1

Preparation: SW846 5030 Water MS

Initial/Final: 1 ml / 5 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17H0200

File ID: 3873304M.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon	20.0	BRL	22.5	112	70 - 136
Acetone	20.0	BRL	21.3	106	39 - 160
Benzene	20.0	BRL	21.8	109	79 - 120
Bromochloromethane	20.0	BRL	21.3	106	78 - 123
Bromodichloromethane	20.0	BRL	22.0	110	79 - 125
Bromoform	20.0	BRL	19.6	98	66 - 130
Bromomethane	20.0	BRL	13.0	65	53 - 141
2-Butanone (MEK)	20.0	BRL	17.6	88	56 - 143
Carbon disulfide	20.0	BRL	20.8	104	64 - 133
Carbon tetrachloride	20.0	BRL	21.0	105	72 - 136
Chlorobenzene	20.0	BRL	20.3	102	82 - 118
Chloroethane	20.0	BRL	19.3	96	60 - 138
Chloroform	20.0	BRL	21.4	107	79 - 124
Chloromethane	20.0	BRL	19.6	98	50 - 139
1,2-Dibromo-3-chloropropane	20.0	BRL	18.8	94	62 - 128
Dibromochloromethane	20.0	BRL	19.9	100	74 - 126
1,2-Dibromoethane (EDB)	20.0	BRL	21.9	109	77 - 121
1,2-Dichlorobenzene	20.0	BRL	19.8	99	80 - 119
1,3-Dichlorobenzene	20.0	BRL	21.0	105	80 - 119
1,4-Dichlorobenzene	20.0	BRL	19.0	95	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	BRL	14.7	74	32 - 152
1,1-Dichloroethane	20.0	BRL	24.9	125	77 - 125
1,2-Dichloroethane	20.0	BRL	21.6	108	73 - 128
1,1-Dichloroethene	20.0	BRL	20.5	102	71 - 131
cis-1,2-Dichloroethene	20.0	BRL	21.6	108	78 - 123
trans-1,2-Dichloroethene	20.0	BRL	22.6	113	75 - 124
1,2-Dichloropropane	20.0	BRL	20.7	104	78 - 128
cis-1,3-Dichloropropene	20.0	BRL	19.8	99	75 - 124
trans-1,3-Dichloropropene	20.0	BRL	20.1	101	73 - 127
Ethylbenzene	20.0	BRL	21.0	104	79 - 121

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-MS1

Preparation: SW846 5030 Water MS

Initial/Final: 1 ml / 5 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17H0200

File ID: 3873304M.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
2-Hexanone (MBK)	20.0	BRL	20.2	101	57 - 139
Isopropylbenzene	20.0	BRL	20.8	104	72 - 131
Methyl tert-butyl ether	20.0	BRL	23.4	117	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	BRL	19.7	99	67 - 130
Methylene chloride	20.0	BRL	22.1	110	74 - 124
Styrene	20.0	BRL	21.8	109	78 - 123
1,1,2,2-Tetrachloroethane	20.0	BRL	20.5	103	71 - 121
Tetrachloroethene	20.0	BRL	22.4	112	74 - 129
Toluene	20.0	BRL	21.8	109	80 - 121
1,2,3-Trichlorobenzene	20.0	BRL	18.0	90	69 - 129
1,2,4-Trichlorobenzene	20.0	BRL	17.9	89	69 - 130
1,1,1-Trichloroethane	20.0	BRL	22.0	110	74 - 131
1,1,2-Trichloroethane	20.0	BRL	21.5	108	80 - 119
Trichloroethene	20.0	BRL	21.6	108	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	BRL	20.7	103	64 - 141
Vinyl chloride	20.0	BRL	18.6	93	58 - 137
m,p-Xylene	20.0	BRL	21.0	104	80 - 121
o-Xylene	20.0	BRL	21.5	108	78 - 122
Cyclohexane	20.0	BRL	21.2	106	71 - 130
Methyl acetate	20.0	BRL	22.2	111	56 - 136
Methylcyclohexane	20.0	BRL	23.1	116	72 - 132

File ID: 3873304R.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,2-Trichlorotrifluoroethane (Freon)	20.0	20.2	101	11	20	70 - 136
Acetone	20.0	25.1	126	17	20	39 - 160
Benzene	20.0	22.1	111	1	20	79 - 120
Bromochloromethane	20.0	22.2	111	4	20	78 - 123
Bromodichloromethane	20.0	23.2	116	5	20	79 - 125

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-MSD1

Preparation: SW846 5030 Water MS

Initial/Final: 1 ml / 5 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17H0200

File ID: 3873304R.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromoform	20.0	20.7	103	6	20	66 - 130
Bromomethane	20.0	16.0	80	21 *	20	53 - 141
2-Butanone (MEK)	20.0	17.2	86	2	20	56 - 143
Carbon disulfide	20.0	20.0	100	4	20	64 - 133
Carbon tetrachloride	20.0	20.2	101	4	20	72 - 136
Chlorobenzene	20.0	20.1	100	1	20	82 - 118
Chloroethane	20.0	19.8	99	3	20	60 - 138
Chloroform	20.0	21.1	106	1	20	79 - 124
Chloromethane	20.0	17.4	87	11	20	50 - 139
1,2-Dibromo-3-chloropropane	20.0	20.5	102	8	20	62 - 128
Dibromochloromethane	20.0	22.0	110	10	20	74 - 126
1,2-Dibromoethane (EDB)	20.0	22.9	115	5	20	77 - 121
1,2-Dichlorobenzene	20.0	19.9	99	0.3	20	80 - 119
1,3-Dichlorobenzene	20.0	20.7	103	2	20	80 - 119
1,4-Dichlorobenzene	20.0	18.4	92	3	20	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	14.3	71	3	20	32 - 152
1,1-Dichloroethane	20.0	23.7	118	5	20	77 - 125
1,2-Dichloroethane	20.0	21.0	105	3	20	73 - 128
1,1-Dichloroethene	20.0	20.6	103	0.4	20	71 - 131
cis-1,2-Dichloroethene	20.0	22.1	110	2	20	78 - 123
trans-1,2-Dichloroethene	20.0	22.9	115	2	20	75 - 124
1,2-Dichloropropane	20.0	21.2	106	2	20	78 - 128
cis-1,3-Dichloropropene	20.0	20.7	103	4	20	75 - 124
trans-1,3-Dichloropropene	20.0	21.1	105	5	20	73 - 127
Ethylbenzene	20.0	20.8	103	0.9	20	79 - 121
2-Hexanone (MBK)	20.0	21.9	110	8	20	57 - 139
Isopropylbenzene	20.0	20.4	102	2	20	72 - 131
Methyl tert-butyl ether	20.0	24.2	121	3	20	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	19.7	98	0.2	20	67 - 130
Methylene chloride	20.0	21.6	108	2	20	74 - 124
Styrene	20.0	21.3	107	2	20	78 - 123

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-MSD1

Preparation: SW846 5030 Water MS

Initial/Final: 1 ml / 5 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17H0200

File ID: 3873304R.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,2,2-Tetrachloroethane	20.0	20.6	103	0.6	20	71 - 121
Tetrachloroethene	20.0	21.6	108	4	20	74 - 129
Toluene	20.0	22.5	112	3	20	80 - 121
1,2,3-Trichlorobenzene	20.0	19.5	98	8	20	69 - 129
1,2,4-Trichlorobenzene	20.0	19.2	96	7	20	69 - 130
1,1,1-Trichloroethane	20.0	22.0	110	0.09	20	74 - 131
1,1,2-Trichloroethane	20.0	22.1	111	3	20	80 - 119
Trichloroethene	20.0	21.5	108	0.5	20	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	22.1	111	7	20	64 - 141
Vinyl chloride	20.0	18.8	94	1	20	58 - 137
m,p-Xylene	20.0	20.9	104	0.3	20	80 - 121
o-Xylene	20.0	21.1	105	2	20	78 - 122
Cyclohexane	20.0	21.2	106	0.05	20	71 - 130
Methyl acetate	20.0	19.9	100	11	20	56 - 136
Methylcyclohexane	20.0	21.3	107	8	20	72 - 132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV - METHOD BLANK SUMMARY
SW846 8260C

1715197-BLK1

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>		
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Matrix:	<u>Aqueous</u>	Laboratory ID:	<u>1715197-BLK1</u>	File ID:	<u>BK30906A.D</u>
		Preparation:	<u>SW846 5030 Water MS</u>	Initial/Final:	<u>5 ml / 5 ml</u>
Analyzed:	<u>09/06/17 09:15</u>	Instrument:	<u>HPV3</u>		
Batch:	<u>1715197</u>	Sequence:	<u>S707890</u>	Calibration:	<u>1709004</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715197-BS1	LCS0906A.D	09/06/17	10:13
LCS Dup	1715197-BSD1	LCS0906B.D	09/06/17	10:42
TF1-MW-1007-083017	SC38733-01	3873301.D	09/06/17	16:57
TF1-MW-1007D-083017	SC38733-02	3873302.D	09/06/17	17:26
TF1-GZ-112-083017	SC38733-03	3873303.D	09/06/17	17:55
TF1-MW-1005-083017	SC38733-04	3873304.D	09/06/17	18:24
TF1-GZ-118-083017	SC38733-05	3873305.D	09/06/17	18:53
TF1-TB-083017	SC38733-07	3873307.D	09/06/17	19:22
Matrix Spike	1715197-MS1	3873304M.D	09/06/17	19:51
Matrix Spike Dup	1715197-MSD1	3873304R.D	09/06/17	20:20

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

1715197-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous Laboratory ID: 1715197-BLK1 File ID: BK30906A.D

Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml

Analyzed: 09/06/17 09:15 Instrument: HPV3

Batch: 1715197 Sequence: S707890 Calibration: 1709004

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

1715197-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous Laboratory ID: 1715197-BLK1 File ID: BK30906A.D

Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml

Analyzed: 09/06/17 09:15 Instrument: HPV3

Batch: 1715197 Sequence: S707890 Calibration: 1709004

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

FORM IV - METHOD BLANK SUMMARY
SW846 8260C

1715452-BLK1

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>		
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Matrix:	<u>Aqueous</u>	Laboratory ID:	<u>1715452-BLK1</u>	File ID:	<u>BK30911B.D</u>
		Preparation:	<u>SW846 5030 Water MS</u>	Initial/Final:	<u>5 ml / 5 ml</u>
Analyzed:	<u>09/11/17 09:10</u>	Instrument:	<u>HPV3</u>		
Batch:	<u>1715452</u>	Sequence:	<u>S708033</u>	Calibration:	<u>1709004</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715452-BS1	LCS0911A.D	09/11/17	10:07
LCS Dup	1715452-BSD1	LCS0911B.D	09/11/17	10:36
TF1-GZ-112-083017	SC38733-03RE1	3873303RE1.D	09/11/17	12:04

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

1715452-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous Laboratory ID: 1715452-BLK1 File ID: BK30911B.D

Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml

Analyzed: 09/11/17 09:10 Instrument: HPV3

Batch: 1715452 Sequence: S708033 Calibration: 1709004

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

1715452-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Matrix: Aqueous Laboratory ID: 1715452-BLK1 File ID: BK30911B.D
 Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml
 Analyzed: 09/11/17 09:10 Instrument: HPV3
 Batch: 1715452 Sequence: S708033 Calibration: 1709004

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708033

Instrument: HPV3

Matrix: Aqueous

Calibration: 1709004

Analyzed: 09/11/17 09:39

File ID: CCV0911A.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	433437	11.15	448989	8.80	1030022	5.48						
Upper Limit	866874	11.65	897978	9.30	2060044	5.98						
Lower Limit	216719	10.65	224495	8.30	515011	4.98						
Sample ID												
Calibration Check (S708033-CCV2)	450743	11.146	498251	8.798	1192157	5.481						
Blank (1715452-BLK1)	415308	11.146	438820	8.799	1016653	5.481						
LCS (1715452-BS1)	415449	11.146	424468	8.799	990347	5.477						
LCS Dup (1715452-BS1)	444951	11.146	462104	8.798	1069326	5.481						
TF1-GZ-112-083017 (SC38733-03RE1)	425838	11.146	443898	8.799	1042082	5.477						

IS1 = 1,4-Dichlorobenzene-d4

IS2 = Chlorobenzene-d5

IS3 = Fluorobenzene

Column to be used to flag internal standard area values

* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S707890

Instrument: HPV3

Matrix: Aqueous

Calibration: 1709004

Analyzed: 09/06/17 10:13

File ID: LCS0906A.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	456491	11.15	457250	8.80	930651	5.48						
Upper Limit	912982	11.65	914500	9.30	1861302	5.98						
Lower Limit	228246	10.65	228625	8.30	465326	4.98						
Sample ID												
Calibration Check (S707890-CCV2)	461160	11.146	463545	8.799	950842	5.477						
Blank (1715197-BLK1)	429688	11.146	431580	8.803	915572	5.477						
LCS (1715197-BS1)	456491	11.146	457250	8.803	930651	5.481						
LCS Dup (1715197-BSD1)	459415	11.146	450999	8.799	939534	5.477						
Matrix Spike (1715197-MS1)	459695	11.146	458960	8.803	950623	5.481						
Matrix Spike Dup (1715197-MSD1)	466976	11.146	462051	8.803	940707	5.481						
TF1-MW-1007-083017 (SC38733-01)	425313	11.146	429880	8.798	892893	5.481						
TF1-MW-1007D-083017 (SC38733-02)	435535	11.146	438110	8.803	909103	5.481						
TF1-GZ-112-083017 (SC38733-03)	476011	11.146	458426	8.803	944571	5.481						
TF1-MW-1005-083017 (SC38733-04)	475610	11.146	471698	8.799	1009791	5.477						
TF1-GZ-118-083017 (SC38733-05)	491623	11.146	500592	8.799	1081050	5.481						
TF1-TB-083017 (SC38733-07)	432427	11.146	436636	8.799	918001	5.481						

IS1 = 1,4-Dichlorobenzene-d4

IS2 = Chlorobenzene-d5

IS3 = Fluorobenzene

Column to be used to flag internal standard area values

* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS**SW846 8260C****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC38733**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
1,1,2-Trichlorotrifluoroethane (Freon 11)	0.5	1.0	µg/l
Acetone	0.8	10.0	µg/l
Benzene	0.3	1.0	µg/l
Bromochloromethane	0.3	1.0	µg/l
Bromodichloromethane	0.4	0.5	µg/l
Bromoform	0.4	1.0	µg/l
Bromomethane	0.9	2.0	µg/l
2-Butanone (MEK)	1.1	2.0	µg/l
Carbon disulfide	0.4	2.0	µg/l
Carbon tetrachloride	0.4	1.0	µg/l
Chlorobenzene	0.2	1.0	µg/l
Chloroethane	0.6	2.0	µg/l
Chloroform	0.3	1.0	µg/l
Chloromethane	0.4	2.0	µg/l
1,2-Dibromo-3-chloropropane	0.9	2.0	µg/l
Dibromochloromethane	0.3	0.5	µg/l
1,2-Dibromoethane (EDB)	0.2	0.5	µg/l
1,2-Dichlorobenzene	0.3	1.0	µg/l
1,3-Dichlorobenzene	0.3	1.0	µg/l
1,4-Dichlorobenzene	0.3	1.0	µg/l
Dichlorodifluoromethane (Freon 12)	0.6	2.0	µg/l
1,1-Dichloroethane	0.3	1.0	µg/l
1,2-Dichloroethane	0.3	1.0	µg/l
1,1-Dichloroethene	0.7	1.0	µg/l
cis-1,2-Dichloroethene	0.3	1.0	µg/l
trans-1,2-Dichloroethene	0.4	1.0	µg/l
1,2-Dichloropropane	0.3	1.0	µg/l
cis-1,3-Dichloropropene	0.4	0.5	µg/l
trans-1,3-Dichloropropene	0.3	0.5	µg/l
Ethylbenzene	0.3	1.0	µg/l
2-Hexanone (MBK)	0.5	2.0	µg/l
Isopropylbenzene	0.4	1.0	µg/l
Methyl tert-butyl ether	0.2	1.0	µg/l
4-Methyl-2-pentanone (MIBK)	0.5	2.0	µg/l
Methylene chloride	0.7	2.0	µg/l
Styrene	0.4	1.0	µg/l
1,1,2,2-Tetrachloroethane	0.3	0.5	µg/l
Tetrachloroethene	0.6	1.0	µg/l
Toluene	0.3	1.0	µg/l

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
1,2,3-Trichlorobenzene	0.4	1.0	µg/l
1,2,4-Trichlorobenzene	0.4	1.0	µg/l
1,1,1-Trichloroethane	0.5	1.0	µg/l
1,1,2-Trichloroethane	0.3	1.0	µg/l
Trichloroethene	0.5	1.0	µg/l
Trichlorofluoromethane (Freon 11)	0.5	1.0	µg/l
Vinyl chloride	0.5	1.0	µg/l
m,p-Xylene	0.4	2.0	µg/l
o-Xylene	0.3	1.0	µg/l
Cyclohexane	0.8	5.0	µg/l
Methyl acetate	0.6	5.0	µg/l
Methylcyclohexane	0.7	5.0	µg/l

SW846 8270D

CROSS REFERENCE TABLE

SW846 8270D

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>		

Client Sample ID:

TF1-MW-1007-083017
TF1-MW-1007D-083017
TF1-GZ-112-083017
TF1-MW-1005-083017
TF1-GZ-118-083017

Lab Sample ID:

SC38733-01
SC38733-02
SC38733-03
SC38733-04
SC38733-05

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38733

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SW846 8270D.

IV. PREPARATION

Aqueous samples were prepared according to SW846 3510C.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 8270D:

HPS4 details: Agilent 6890 with 5973 MS: Phenomenex ZB-Semivolatiles (30M, 0.25mm, 0.25um)

HPS5 details: Agilent 6890 with 5973 MS: Agilent HP-5MS (30M, 0.25mm, 0.25um)

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Surrogates:

All method criteria were met with the following exceptions:

2-Fluorobiphenyl in batch 1715009, sample 1715009-BLK1: Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

D. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met with the following exceptions:

Anthracene, Benzo (g,h,i) perylene, Phenanthrene in batch 1715009, samples 1715009-BS1, 1715009-BSD1: Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Benzo (k) fluoranthene in batch 1715009, sample 1715009-BSD1: The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

In batch 1715009 BS/BSD:

Anthracene percent recoveries (53/60) are outside individual acceptance criteria (57-123), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

TF1-GZ-112-083017, TF1-GZ-118-083017, TF1-MW-1005-083017, TF1-MW-1007-083017, TF1-MW-1007D-083017

Benzo (g,h,i) perylene percent recoveries (48/50) are outside individual acceptance criteria (50-134), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

TF1-GZ-112-083017, TF1-GZ-118-083017, TF1-MW-1005-083017, TF1-MW-1007-083017, TF1-MW-1007D-083017

Phenanthrene percent recoveries (53/56) are outside individual acceptance criteria (59-120), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

TF1-GZ-112-083017, TF1-GZ-118-083017, TF1-MW-1005-083017, TF1-MW-1007-083017, TF1-MW-1007D-083017

In batch 1715009 BSD:

Benzo (k) fluoranthene RPD 30% (20%) is outside individual acceptance criteria.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715009 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met with the following exceptions:

Anthracene, Phenanthrene in batch 1715009, lab sample 1715009-MS1 from source sample TF1-MW-1005-083017 (SC38733-04): Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Benzo (a) anthracene, Benzo (a) pyrene, Benzo (k) fluoranthene, Chrysene, Fluoranthene, Naphthalene, Pyrene in batch 1715009, lab sample 1715009-MS1 from source sample TF1-MW-1005-083017 (SC38733-04): The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Anthracene, Benzo (g,h,i) perylene, Phenanthrene in batch 1715009, lab sample 1715009-MSD1 from source sample TF1-MW-1005-083017 (SC38733-04): Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1-Methylnaphthalene, Acenaphthene, Acenaphthylene, Benzo (g,h,i) perylene, Dibenzo (a,h) anthracene, Fluorene, Indeno (1,2,3-cd) pyrene in batch 1715009, lab sample 1715009-MSD1 from source sample TF1-MW-1005-083017 (SC38733-04): RPD out of acceptance range.

1-Methylnaphthalene, Acenaphthene, Acenaphthylene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Fluoranthene, Fluorene, Indeno (1,2,3-cd) pyrene, Naphthalene, Pyrene in batch 1715009, lab sample 1715009-MSD1 from source sample TF1-MW-1005-083017 (SC38733-04): The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

E. Duplicates:

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met.

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 17H0260

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1715009-BLK1)	39 *	43	62				1
LCS (1715009-BS1)	61	64	82				0
LCS Dup (1715009-BSD1)	66	70	93				0

Control Limits

S1 = 2-Fluorobiphenyl44 - 119

S2 = Nitrobenzene-d540 - 110

S3 = Terphenyl-dl450 - 134

Column to be used to flag recovery values

* Values outside of QC limits

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 17H0260

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Matrix Spike Dup (1715009-MSD1)	51	54	64				0
TF1-MW-1007-083017 (SC38733-01)	51	57	80				0
TF1-MW-1007D-083017 (SC38733-02)	55	61	76				0
TF1-GZ-112-083017 (SC38733-03)	51	54	68				0
TF1-MW-1005-083017 (SC38733-04)	49	55	67				0
TF1-GZ-118-083017 (SC38733-05)	53	55	72				0

Control Limits

S1 = 2-Fluorobiphenyl44 - 119

S2 = Nitrobenzene-d540 - 110

S3 = Terphenyl-dl450 - 134

Column to be used to flag recovery values

* Values outside of QC limits

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 17H0260

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Matrix Spike (1715009-MS1)	71	54	67				0

Control Limits

S1 = 2-Fluorobiphenyl44 - 119

S2 = Nitrobenzene-d540 - 110

S3 = Terphenyl-dl450 - 134

Column to be used to flag recovery values

* Values outside of QC limits

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS4

Batch: 1715009

Laboratory ID: 1715009-BS1

Preparation: SW846 3510C

Initial/Final: 990 ml / 1 ml

Analyzed: 09/13/17 17:09

Spike ID: 17H0927

File ID: BSR15009.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
Acenaphthene	50.5	24.6	49	47 - 122
Acenaphthylene	50.5	25.2	50	41 - 130
Anthracene	50.5	27.0	53 *	57 - 123
Benzo (a) anthracene	50.5	30.4	60	58 - 125
Benzo (a) pyrene	50.5	34.3	68	54 - 128
Benzo (b) fluoranthene	50.5	41.3	82	53 - 131
Benzo (g,h,i) perylene	50.5	24.3	48 *	50 - 134
Benzo (k) fluoranthene	50.5	33.8	67	57 - 129
Chrysene	50.5	30.3	60	59 - 123
Dibenzo (a,h) anthracene	50.5	28.8	57	51 - 134
Fluoranthene	50.5	28.6	57	57 - 128
Fluorene	50.5	27.1	54	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	26.7	53	52 - 134
1-Methylnaphthalene	50.5	22.7	45	41 - 119
2-Methylnaphthalene	50.5	29.7	59	40 - 121
Naphthalene	50.5	21.5	43	40 - 121
Phenanthrene	50.5	26.6	53 *	59 - 120
Pyrene	50.5	28.8	57	57 - 126

File ID: BSDR5009.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Acenaphthene	50.5	25.3	50	3	20	47 - 122
Acenaphthylene	50.5	28.2	56	11	20	41 - 130
Anthracene	50.5	30.4	60	12	20	57 - 123
Benzo (a) anthracene	50.5	32.4	64	6	20	58 - 125
Benzo (a) pyrene	50.5	37.4	74	9	20	54 - 128
Benzo (b) fluoranthene	50.5	46.5	92	12	20	53 - 131
Benzo (g,h,i) perylene	50.5	25.5	50	5	20	50 - 134
Benzo (k) fluoranthene	50.5	45.6	90	30 *	20	57 - 129

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS4

Batch: 1715009

Laboratory ID: 1715009-BSD1

Preparation: SW846 3510C

Initial/Final: 990 ml / 1 ml

Analyzed: 09/13/17 17:37

Spike ID: 17H0927

File ID: BSDR5009.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Chrysene	50.5	33.8	67	11	20	59 - 123
Dibenzo (a,h) anthracene	50.5	29.9	59	4	20	51 - 134
Fluoranthene	50.5	29.1	58	2	20	57 - 128
Fluorene	50.5	28.7	57	5	20	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	29.0	57	8	20	52 - 134
1-Methylnaphthalene	50.5	24.9	49	9	20	41 - 119
2-Methylnaphthalene	50.5	29.9	59	0.7	20	40 - 121
Naphthalene	50.5	22.7	45	5	20	40 - 121
Phenanthrene	50.5	28.3	56 *	6	20	59 - 120
Pyrene	50.5	29.6	59	3	20	57 - 126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS5

Batch: 1715009

Laboratory ID: 1715009-MS1

Preparation: SW846 3510C

Initial/Final: 1000 ml / 1 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17H0927

File ID: R873304M.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
Acenaphthene	50.0	BRL	27.0	54	47 - 122
Acenaphthylene	50.0	BRL	25.5	51	41 - 130
Anthracene	50.0	BRL	20.7	41 *	57 - 123
Benzo (a) anthracene	50.0	BRL	24.5	49 *	58 - 125
Benzo (a) pyrene	50.0	BRL	26.4	53 *	54 - 128
Benzo (b) fluoranthene	50.0	BRL	28.7	57	53 - 131
Benzo (g,h,i) perylene	50.0	BRL	25.5	51	50 - 134
Benzo (k) fluoranthene	50.0	BRL	24.6	49 *	57 - 129
Chrysene	50.0	BRL	23.7	47 *	59 - 123
Dibenzo (a,h) anthracene	50.0	BRL	28.3	57	51 - 134
Fluoranthene	50.0	BRL	24.4	49 *	57 - 128
Fluorene	50.0	BRL	27.9	56	52 - 124
Indeno (1,2,3-cd) pyrene	50.0	BRL	28.2	56	52 - 134
1-Methylnaphthalene	50.0	BRL	28.6	57	41 - 119
2-Methylnaphthalene	50.0	BRL	24.9	50	40 - 121
Naphthalene	50.0	BRL	19.4	39 *	40 - 121
Phenanthrene	50.0	BRL	22.3	45 *	59 - 120
Pyrene	50.0	BRL	23.6	47 *	57 - 126

File ID: 3873304S.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Acenaphthene	50.0	18.9	38 *	35 *	20	47 - 122
Acenaphthylene	50.0	18.5	37 *	32 *	20	41 - 130
Anthracene	50.0	18.7	37 *	10	20	57 - 123
Benzo (a) anthracene	50.0	21.2	42 *	14	20	58 - 125
Benzo (a) pyrene	50.0	25.1	50 *	5	20	54 - 128
Benzo (b) fluoranthene	50.0	26.0	52 *	10	20	53 - 131
Benzo (g,h,i) perylene	50.0	17.7	35 *	36 *	20	50 - 134
Benzo (k) fluoranthene	50.0	28.2	56 *	13	20	57 - 129

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS4

Batch: 1715009

Laboratory ID: 1715009-MSD1

Preparation: SW846 3510C

Initial/Final: 1000 ml / 1 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17H0927

File ID: 3873304S.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD		% RPD #	QC LIMITS	
			REC. #			RPD	REC.
Chrysene	50.0	21.5	43	*	9	20	59 - 123
Dibenzo (a,h) anthracene	50.0	21.8	44	*	26	20	51 - 134
Fluoranthene	50.0	20.8	42	*	16	20	57 - 128
Fluorene	50.0	20.1	40	*	32	20	52 - 124
Indeno (1,2,3-cd) pyrene	50.0	19.4	39	*	37	20	52 - 134
1-Methylnaphthalene	50.0	18.4	37	*	44	20	41 - 119
2-Methylnaphthalene	50.0	22.0	44		12	20	40 - 121
Naphthalene	50.0	17.5	35	*	10	20	40 - 121
Phenanthrene	50.0	18.7	37	*	18	20	59 - 120
Pyrene	50.0	21.3	43	*	11	20	57 - 126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV - METHOD BLANK SUMMARY
SW846 8270D

1715009-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Laboratory ID: 1715009-BLK1 File ID: BKR15009.D
Preparation: SW846 3510C Initial/Final: 980 ml / 1 ml
Analyzed: 09/13/17 16:12 Instrument: HPS4
Batch: 1715009 Sequence: S708168 Calibration: 1708113

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715009-BS1	BSR15009.D	09/13/17	17:09
LCS Dup	1715009-BSD1	BSDR5009.D	09/13/17	17:37
TF1-MW-1007-083017	SC38733-01	C3873301.D	09/15/17	17:25
TF1-MW-1007D-083017	SC38733-02	C3873302.D	09/15/17	17:53
TF1-GZ-112-083017	SC38733-03	C3873303.D	09/15/17	18:21
TF1-MW-1005-083017	SC38733-04	C3873304.D	09/15/17	18:50
Matrix Spike Dup	1715009-MSD1	3873304S.D	09/15/17	19:46
TF1-GZ-118-083017	SC38733-05	C3873305.D	09/15/17	20:14
Matrix Spike	1715009-MS1	R873304M.D	09/21/17	10:43

FORM I - ORGANIC ANALYSIS DATA SHEET
SW846 8270D

1715009-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Matrix: Aqueous Laboratory ID: 1715009-BLK1 File ID: BKR15009.D
 Preparation: SW846 3510C Initial/Final: 980 ml / 1 ml
 Analyzed: 09/13/17 16:12 Instrument: HPS4
 Batch: 1715009 Sequence: S708168 Calibration: 1708113

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	1.02	U	0.705	1.02	5.10
208-96-8	Acenaphthylene	1	1.02	U	0.697	1.02	5.10
120-12-7	Anthracene	1	1.02	U	0.620	1.02	5.10
56-55-3	Benzo (a) anthracene	1	1.02	U	0.547	1.02	5.10
50-32-8	Benzo (a) pyrene	1	1.02	U	0.573	1.02	5.10
205-99-2	Benzo (b) fluoranthene	1	1.02	U	0.446	1.02	5.10
191-24-2	Benzo (g,h,i) perylene	1	1.02	U	0.541	1.02	5.10
207-08-9	Benzo (k) fluoranthene	1	1.02	U	0.490	1.02	5.10
218-01-9	Chrysene	1	1.02	U	0.543	1.02	5.10
53-70-3	Dibenzo (a,h) anthracene	1	1.02	U	0.459	1.02	5.10
206-44-0	Fluoranthene	1	1.02	U	0.651	1.02	5.10
86-73-7	Fluorene	1	1.02	U	0.624	1.02	5.10
193-39-5	Indeno (1,2,3-cd) pyrene	1	1.02	U	0.592	1.02	5.10
90-12-0	1-Methylnaphthalene	1	1.02	U	0.748	1.02	5.10
91-57-6	2-Methylnaphthalene	1	1.02	U	0.586	1.02	5.10
91-20-3	Naphthalene	1	1.02	U	0.699	1.02	5.10
85-01-8	Phenanthrene	1	1.02	U	0.598	1.02	5.10
129-00-0	Pyrene	1	1.02	U	0.622	1.02	5.10

FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708168

Instrument: HPS4

Matrix: Aqueous

Calibration: 1708113

Analyzed: 09/13/17 09:39

File ID: SCT40913.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	347180	7.69	1134382	12.92	825091	5.50	1282129	15.33	1169836	9.46		
Upper Limit	694360	8.19	2268764	13.42	1650182	6.00	2564258	15.83	2339672	9.96		
Lower Limit	173590	7.19	567191	12.42	412546	5.00	641065	14.83	584918	8.96		
Sample ID												
Calibration Check (S708168-CCV2)	479811	7.675	1552143	12.898	1201317	5.486	1606007	15.304	1436101	9.445		
Blank (1715009-BLK1)	539973	7.685	1543138	12.914	1428554	5.491	1681011	15.326	1667590	9.456		
LCS (1715009-BS1)	613716	7.691	1937367	12.926	1351726	5.497	1814928	15.338	1781931	9.462		
LCS Dup (1715009-BSD1)	490309	7.691	1495020	12.926	1204383	5.497	1212034	15.332	1444492	9.462		

IS1 = Acenaphthene-d10

IS2 = Chrysene-d12

IS3 = Naphthalene-d8

IS4 = Perylene-d12

IS5 = Phenanthrene-d10

Column to be used to flag internal standard area values

* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708251

Instrument: HPS4

Matrix: Aqueous

Calibration: 1708113

Analyzed: 09/15/17 09:51

File ID: SCT40915.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	456312	7.64	1583402	12.86	1157054	5.45	1669808	15.26	1366061	9.41		
Upper Limit	912624	8.14	3166804	13.36	2314108	5.95	3339616	15.76	2732122	9.91		
Lower Limit	228156	7.14	791701	12.36	578527	4.95	834904	14.76	683031	8.91		
Sample ID												
Calibration Check (S708251-CCV2)	523346	7.641	1623560	12.864	1337590	5.447	1444810	15.258	1594827	9.412		
Matrix Spike Dup (1715009-MSD1)	711547	7.641	2024673	12.859	1636176	5.447	1742107	15.258	2067458	9.412		
TF1-MW-1007-083017 (SC38733-01)	693966	7.635	1690443	12.853	1567857	5.441	1420150	15.247	1954611	9.406		
TF1-MW-1007D-083017 (SC38733-02)	747770	7.635	1979016	12.853	1769215	5.442	1773138	15.253	2097360	9.406		
TF1-GZ-112-083017 (SC38733-03)	689273	7.635	1961576	12.853	1670294	5.441	1747731	15.252	2024711	9.406		
TF1-MW-1005-083017 (SC38733-04)	743816	7.636	2041802	12.853	1670380	5.442	1887284	15.253	2044234	9.406		
TF1-GZ-118-083017 (SC38733-05)	790979	7.636	2192969	12.853	1898180	5.442	1955125	15.253	2191342	9.406		

IS1 = Acenaphthene-d10

IS2 = Chrysene-d12

IS3 = Naphthalene-d8

IS4 = Perylene-d12

IS5 = Phenanthrene-d10

Column to be used to flag internal standard area values

* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708396

Instrument: HPS5

Matrix: Aqueous

Calibration: 1709033

Analyzed: 09/21/17 07:34

File ID: SCD50920.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	1750024	7.72	3445530	12.96	3322410	5.54	3739342	15.36	3376585	9.49		
Upper Limit	3500048	8.22	6891060	13.46	6644820	6.04	7478684	15.86	6753170	9.99		
Lower Limit	875012	7.22	1722765	12.46	1661205	5.04	1869671	14.86	1688293	8.99		
Sample ID												
Calibration Check (S708396-CCV2)	2014918	7.728	3938702	12.958	3849351	5.535	4260207	15.363	3827602	9.499		
Matrix Spike (1715009-MS1)	2640489	7.729	6654979	12.964	6270243	5.535	6657456	15.381	6337948	9.505		

IS1 = Acenaphthene-d10

IS2 = Chrysene-d12

IS3 = Naphthalene-d8

IS4 = Perylene-d12

IS5 = Phenanthrene-d10

Column to be used to flag internal standard area values

* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS**SW846 8270D****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC38733**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Acenaphthene	0.691	5.00	µg/l
Acenaphthylene	0.683	5.00	µg/l
Anthracene	0.608	5.00	µg/l
Benzo (a) anthracene	0.536	5.00	µg/l
Benzo (a) pyrene	0.562	5.00	µg/l
Benzo (b) fluoranthene	0.437	5.00	µg/l
Benzo (g,h,i) perylene	0.530	5.00	µg/l
Benzo (k) fluoranthene	0.480	5.00	µg/l
Chrysene	0.532	5.00	µg/l
Dibenzo (a,h) anthracene	0.450	5.00	µg/l
Fluoranthene	0.638	5.00	µg/l
Fluorene	0.612	5.00	µg/l
Indeno (1,2,3-cd) pyrene	0.580	5.00	µg/l
1-Methylnaphthalene	0.733	5.00	µg/l
2-Methylnaphthalene	0.574	5.00	µg/l
Naphthalene	0.685	5.00	µg/l
Phenanthrene	0.586	5.00	µg/l
Pyrene	0.610	5.00	µg/l

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS**SW846 8270D****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC38733**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Acenaphthene	0.691	5.00	µg/l
Acenaphthylene	0.683	5.00	µg/l
Anthracene	0.608	5.00	µg/l
Benzo (a) anthracene	0.536	5.00	µg/l
Benzo (a) pyrene	0.562	5.00	µg/l
Benzo (b) fluoranthene	0.437	5.00	µg/l
Benzo (g,h,i) perylene	0.530	5.00	µg/l
Benzo (k) fluoranthene	0.480	5.00	µg/l
Chrysene	0.532	5.00	µg/l
Dibenzo (a,h) anthracene	0.450	5.00	µg/l
Fluoranthene	0.638	5.00	µg/l
Fluorene	0.612	5.00	µg/l
Indeno (1,2,3-cd) pyrene	0.580	5.00	µg/l
1-Methylnaphthalene	0.733	5.00	µg/l
2-Methylnaphthalene	0.574	5.00	µg/l
Naphthalene	0.685	5.00	µg/l
Phenanthrene	0.586	5.00	µg/l
Pyrene	0.610	5.00	µg/l

Mod EPA 3C/SOP RSK-175

CROSS REFERENCE TABLE

Mod EPA 3C/SOP RSK-175

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>		

Client Sample ID:

TF1-MW-1007-083017
TF1-MW-1007D-083017
TF1-GZ-112-083017
TF1-MW-1005-083017
TF1-GZ-118-083017

Lab Sample ID:

SC38733-01
SC38733-02
SC38733-03
SC38733-04
SC38733-05

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38733

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to Mod EPA 3C/SOP RSK-175.

IV. PREPARATION

Aqueous samples were prepared according to General Air Prep.

V. INSTRUMENTATION

The following equipment was used to analyze Mod EPA 3C/SOP RSK-175:

Air5 details: Perkin-Elmer / Arnel Clarus 500 GC
TCD detector 7' HayeSep N 60/80, 1/8" SF column
9' Molecular Sieve 13x45/60, 1/8" SF column

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

No matrix spike or matrix spike duplicates were analyzed.

D. Duplicates:

A duplicate was analyzed.

In batch 1715514 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

E. Samples:

All method criteria were met.

FORM IIIa - LCS / LCS DUPLICATE RECOVERY**Mod EPA 3C/SOP RSK-175**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Instrument: Air5
Batch: 1715446 Laboratory ID: 1715446-BS1
Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Analyzed: 09/08/17 10:26 Spike ID: 17F0404
File ID: 090817-chanb-004-0

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Methane	500	391	78	73 - 125
Ethane	500	459	92	74 - 131

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY**Mod EPA 3C/SOP RSK-175**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Instrument: Air5
Batch: 1715514 Laboratory ID: 1715514-BS1
Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Analyzed: 09/11/17 09:00 Spike ID: 17F0404
File ID: 091117-chanb-002-0

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Methane	500	428	86	73 - 125
Ethane	500	471	94	74 - 131

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIc - DUPLICATES

TF1-MW-1005-083017

Mod EPA 3C/SOP RSK-175

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715514-DUP1

Batch: 1715514

Lab Source ID: SC38733-04

Preparation: General Air Prep

Initial/Final: 10 µg / 10 µg

Source Sample Name: TF1-MW-1005-083017

% Solids:

File ID: 091117-chanb-005-0

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (µg/l)	C	DUPLICATE CONCENTRATION (µg/l)	C	RPD %	Q	METHOD
Methane	30	BRL		BDL				Mod EPA 3C/SOP RSK-175
Ethane	30	BRL		BDL				Mod EPA 3C/SOP RSK-175

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IV - METHOD BLANK SUMMARY
Mod EPA 3C/SOP RSK-175

1715446-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Laboratory ID: 1715446-BLK1 File ID: 090817-chanb-005-0
Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Analyzed: 09/08/17 10:48 Instrument: Air5
Batch: 1715446 Sequence: S708049 Calibration: 1707028

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715446-BS1	090817-chanb-004-0	09/08/17	10:26
TF1-MW-1007-083017	SC38733-01	090817-chanb-012-0	09/08/17	14:39
TF1-MW-1007D-083017	SC38733-02	090817-chanb-013-0	09/08/17	15:16
TF1-GZ-112-083017	SC38733-03	090817-chanb-014-0	09/08/17	15:42

FORM I - AIR ANALYSIS DATA SHEET**Mod EPA 3C/SOP RSK-175****1715446-BLK1**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Laboratory ID: 1715446-BLK1 File ID: 090817-chanb-005-0
Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Analyzed: 09/08/17 10:48 Instrument: Air5
Batch: 1715446 Sequence: S708049 Calibration: 1707028
Units: µg/l

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
74-82-8	Methane	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	5.00	U	3.48	5.00	5.00

FORM IV - METHOD BLANK SUMMARY
Mod EPA 3C/SOP RSK-175

1715514-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Laboratory ID: 1715514-BLK1 File ID: 091117-chanb-003-0
Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Analyzed: 09/11/17 09:32 Instrument: Air5
Batch: 1715514 Sequence: S708081 Calibration: 1707028

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715514-BS1	091117-chanb-002-0	09/11/17	9:00
TF1-MW-1005-083017	SC38733-04	091117-chanb-004-0	09/11/17	9:54
Duplicate	1715514-DUP1	091117-chanb-005-0	09/11/17	10:20
TF1-GZ-118-083017	SC38733-05	091117-chanb-006-0	09/11/17	10:48

FORM I - AIR ANALYSIS DATA SHEET**Mod EPA 3C/SOP RSK-175****1715514-BLK1**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Laboratory ID: 1715514-BLK1 File ID: 091117-CHANB-003-0
Preparation: General Air Prep Initial/Final: 10 µg / 10 µg
Analyzed: 09/11/17 09:32 Instrument: Air5
Batch: 1715514 Sequence: S708081 Calibration: 1707028
Units: µg/l

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
74-82-8	Methane	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	5.00	U	3.48	5.00	5.00

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

Mod EPA 3C/SOP RSK-175

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Methane	2.16	2.20	µg/l
Ethane	3.48	5.00	µg/l

SW846 8081B

CROSS REFERENCE TABLE

SW846 8081B

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>		

Client Sample ID:

TF1-MW-1007-083017
TF1-MW-1007D-083017
TF1-GZ-112-083017
TF1-MW-1005-083017
TF1-GZ-118-083017

Lab Sample ID:

SC38733-01
SC38733-02
SC38733-03
SC38733-04
SC38733-05

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38733

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SW846 8081B.

IV. PREPARATION

Aqueous samples were prepared according to SW846 3510C.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 8081B:

HPS14 details: Agilent 6890 RTX-CLPesticides 2 column (30m, 0.53mmID, 0.42um)
RTX-CLP confirmation column (30m, 0.53mmID, 0.5um)

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Surrogates:

All method criteria were met.

D. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715010 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

E. Duplicates:

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met.

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 17H0222

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1715010-BLK1)	105	106	78	71			0
LCS (1715010-BS1)	101	101	88	71			0
LCS Dup (1715010-BSD1)	101	101	85	71			0
Matrix Spike (1715010-MS1)	125	131	118	116			0
Matrix Spike Dup (1715010-MSD1)	134	129	117	105			0
Instrument Blank (S708006-IBL1)	93	94	107	90			0
Instrument Blank (S708006-IBL2)	94	96	107	101			0
TF1-MW-1007-083017 (SC38733-01)	113	111	116	99			0
TF1-MW-1007D-083017 (SC38733-02)	98	96	106	96			0
TF1-GZ-112-083017 (SC38733-03)	117	131	95	84			0
TF1-MW-1005-083017 (SC38733-04)	117	120	117	116			0
TF1-GZ-118-083017 (SC38733-05)	109	116	102	99			0

Control Limits

S1 = 4,4-DB-Octafluorobiphenyl (Sr) 30 - 150

S2 = 4,4-DB-Octafluorobiphenyl (Sr) [2C] 30 - 150

S3 = Decachlorobiphenyl (Sr) 30 - 135

S4 = Decachlorobiphenyl (Sr) [2C] 30 - 135

Column to be used to flag recovery values

* Values outside of QC limits

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS14

Batch: 1715010

Laboratory ID: 1715010-BS1

Preparation: SW846 3510C

Initial/Final: 980 ml / 10 ml

Analyzed: 09/07/17 23:21

Spike ID: 17G0198

Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m

Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

File ID: L3140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.510	0.377	74	54 - 138
alpha-BHC [2C]	0.510	0.352	69	54 - 138
beta-BHC	0.510	0.388	76	56 - 136
beta-BHC [2C]	0.510	0.392	77	56 - 136
delta-BHC	0.510	0.381	75	52 - 142
delta-BHC [2C]	0.510	0.360	71	52 - 142
gamma-BHC (Lindane)	0.510	0.390	76	59 - 134
gamma-BHC (Lindane) [2C]	0.510	0.400	78	59 - 134
Heptachlor	0.510	0.376	74	54 - 130
Heptachlor [2C]	0.510	0.376	74	54 - 130
Aldrin	0.510	0.372	73	45 - 134
Aldrin [2C]	0.510	0.392	77	45 - 134
Heptachlor epoxide	0.510	0.388	76	61 - 133
Heptachlor epoxide [2C]	0.510	0.383	75	61 - 133
Endosulfan I	0.510	0.396	78	62 - 126
Endosulfan I [2C]	0.510	0.396	78	62 - 126
Dieldrin	0.510	0.389	76	60 - 136
Dieldrin [2C]	0.510	0.376	74	60 - 136
4,4'-DDE (p,p')	0.510	0.385	75	57 - 135
4,4'-DDE (p,p') [2C]	0.510	0.385	75	57 - 135
Endrin	0.510	0.436	85	60 - 138
Endrin [2C]	0.510	0.423	83	60 - 138
Endosulfan II	0.510	0.410	80	52 - 135
Endosulfan II [2C]	0.510	0.371	73	52 - 135
4,4'-DDD (p,p')	0.510	0.394	77	56 - 143
4,4'-DDD (p,p') [2C]	0.510	0.379	74	56 - 143
Endosulfan sulfate	0.510	0.415	81	62 - 133
Endosulfan sulfate [2C]	0.510	0.367	72	62 - 133

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS14

Batch: 1715010

Laboratory ID: 1715010-BS1

Preparation: SW846 3510C

Initial/Final: 980 ml / 10 ml

Analyzed: 09/07/17 23:21

Spike ID: 17G0198

Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m

Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

File ID: L3140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
4,4'-DDT (p,p')	0.510	0.398	78	51 - 143
4,4'-DDT (p,p') [2C]	0.510	0.334	65	51 - 143
Methoxychlor	0.510	0.447	88	54 - 145
Methoxychlor [2C]	0.510	0.355	70	54 - 145
Endrin ketone	0.510	0.407	80	58 - 134
Endrin ketone [2C]	0.510	0.343	67	58 - 134
Endrin aldehyde	0.510	0.445	87	51 - 132
Endrin aldehyde [2C]	0.510	0.400	78	51 - 132
alpha-Chlordane	0.510	0.393	77	60 - 129
alpha-Chlordane [2C]	0.510	0.390	76	60 - 129
Chlordane (gamma)(trans)	0.510	0.385	75	56 - 136
Chlordane (gamma)(trans) [2C]	0.510	0.381	75	56 - 136
Alachlor	0.510	0.468	92	40 - 140
Alachlor [2C]	0.510	0.387	76	40 - 140

File ID: L4140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
alpha-BHC	0.505	0.376	74	0.3	20	54 - 138
alpha-BHC [2C]	0.505	0.351	69	0.5	20	54 - 138
beta-BHC	0.505	0.385	76	0.8	20	56 - 136
beta-BHC [2C]	0.505	0.386	76	2	20	56 - 136
delta-BHC	0.505	0.380	75	0.3	20	52 - 142
delta-BHC [2C]	0.505	0.356	70	1	20	52 - 142
gamma-BHC (Lindane)	0.505	0.388	77	0.5	20	59 - 134
gamma-BHC (Lindane) [2C]	0.505	0.397	79	0.6	20	59 - 134
Heptachlor	0.505	0.374	74	0.7	20	54 - 130
Heptachlor [2C]	0.505	0.376	75	0.05	20	54 - 130

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS14

Batch: 1715010

Laboratory ID: 1715010-BSD1

Preparation: SW846 3510C

Initial/Final: 990 ml / 10 ml

Analyzed: 09/07/17 23:39

Spike ID: 17G0198

Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m

Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

File ID: L4140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Aldrin	0.505	0.369	73	0.7	20	45 - 134
Aldrin [2C]	0.505	0.390	77	0.6	20	45 - 134
Heptachlor epoxide	0.505	0.384	76	1	20	61 - 133
Heptachlor epoxide [2C]	0.505	0.378	75	1	20	61 - 133
Endosulfan I	0.505	0.392	78	1	20	62 - 126
Endosulfan I [2C]	0.505	0.389	77	2	20	62 - 126
Dieldrin	0.505	0.383	76	2	20	60 - 136
Dieldrin [2C]	0.505	0.375	74	0.3	20	60 - 136
4,4'-DDE (p,p')	0.505	0.381	75	1	20	57 - 135
4,4'-DDE (p,p') [2C]	0.505	0.382	76	0.7	20	57 - 135
Endrin	0.505	0.418	83	4	20	60 - 138
Endrin [2C]	0.505	0.422	84	0.2	20	60 - 138
Endosulfan II	0.505	0.397	79	3	20	52 - 135
Endosulfan II [2C]	0.505	0.363	72	2	20	52 - 135
4,4'-DDD (p,p')	0.505	0.384	76	3	20	56 - 143
4,4'-DDD (p,p') [2C]	0.505	0.368	73	3	20	56 - 143
Endosulfan sulfate	0.505	0.401	79	3	20	62 - 133
Endosulfan sulfate [2C]	0.505	0.357	71	3	20	62 - 133
4,4'-DDT (p,p')	0.505	0.390	77	2	20	51 - 143
4,4'-DDT (p,p') [2C]	0.505	0.330	65	1	20	51 - 143
Methoxychlor	0.505	0.421	83	6	20	54 - 145
Methoxychlor [2C]	0.505	0.350	69	2	20	54 - 145
Endrin ketone	0.505	0.400	79	2	20	58 - 134
Endrin ketone [2C]	0.505	0.336	66	2	20	58 - 134
Endrin aldehyde	0.505	0.435	86	2	20	51 - 132
Endrin aldehyde [2C]	0.505	0.392	78	2	20	51 - 132
alpha-Chlordane	0.505	0.391	77	0.4	20	60 - 129
alpha-Chlordane [2C]	0.505	0.387	77	0.9	20	60 - 129

FORM IIIa - LCS / LCS DUPLICATE RECOVERY**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Instrument: HPS14
Batch: 1715010 Laboratory ID: 1715010-BSD1
Preparation: SW846 3510C Initial/Final: 990 ml / 10 ml
Analyzed: 09/07/17 23:39 Spike ID: 17G0198
Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m
Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

File ID: L4140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Chlordane (gamma)(trans)	0.505	0.381	75	1	20	56 - 136
Chlordane (gamma)(trans) [2C]	0.505	0.377	75	1	20	56 - 136
Alachlor	0.505	0.460	91	2	20	40 - 140
Alachlor [2C]	0.505	0.387	77	0.1	20	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS14

Batch: 1715010

Laboratory ID: 1715010-MS1

Preparation: SW846 3510C

Initial/Final: 1040 ml / 10 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17G0198

Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m

Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

File ID: M3140907.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.481	BRL	0.395	82	54 - 138
alpha-BHC [2C]	0.481	BRL	0.383	80	54 - 138
beta-BHC	0.481	BRL	0.430	89	56 - 136
beta-BHC [2C]	0.481	BRL	0.451	94	56 - 136
delta-BHC	0.481	BRL	0.422	88	52 - 142
delta-BHC [2C]	0.481	BRL	0.422	88	52 - 142
gamma-BHC (Lindane)	0.481	BRL	0.421	88	59 - 134
gamma-BHC (Lindane) [2C]	0.481	BRL	0.447	93	59 - 134
Heptachlor	0.481	BRL	0.400	83	54 - 130
Heptachlor [2C]	0.481	BRL	0.423	88	54 - 130
Aldrin	0.481	BRL	0.375	78	45 - 134
Aldrin [2C]	0.481	BRL	0.410	85	45 - 134
Heptachlor epoxide	0.481	BRL	0.419	87	61 - 133
Heptachlor epoxide [2C]	0.481	BRL	0.445	93	61 - 133
Endosulfan I	0.481	BRL	0.424	88	62 - 126
Endosulfan I [2C]	0.481	BRL	0.461	96	62 - 126
Dieldrin	0.481	BRL	0.422	88	60 - 136
Dieldrin [2C]	0.481	BRL	0.460	96	60 - 136
4,4'-DDE (p,p')	0.481	BRL	0.420	87	57 - 135
4,4'-DDE (p,p') [2C]	0.481	BRL	0.467	97	57 - 135
Endrin	0.481	BRL	0.470	98	60 - 138
Endrin [2C]	0.481	BRL	0.529	110	60 - 138
Endosulfan II	0.481	BRL	0.446	93	52 - 135
Endosulfan II [2C]	0.481	BRL	0.459	95	52 - 135
4,4'-DDD (p,p')	0.481	BRL	0.419	87	56 - 143
4,4'-DDD (p,p') [2C]	0.481	BRL	0.464	97	56 - 143
Endosulfan sulfate	0.481	BRL	0.456	95	62 - 133
Endosulfan sulfate [2C]	0.481	BRL	0.458	95	62 - 133

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS14

Batch: 1715010

Laboratory ID: 1715010-MS1

Preparation: SW846 3510C

Initial/Final: 1040 ml / 10 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17G0198

Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m

Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

File ID: M3140907.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
4,4'-DDT (p,p')	0.481	BRL	0.477	99	51 - 143
4,4'-DDT (p,p') [2C]	0.481	BRL	0.438	91	51 - 143
Methoxychlor	0.481	BRL	0.562	117	54 - 145
Methoxychlor [2C]	0.481	BRL	0.466	97	54 - 145
Endrin ketone	0.481	BRL	0.461	96	58 - 134
Endrin ketone [2C]	0.481	BRL	0.453	94	58 - 134
Endrin aldehyde	0.481	BRL	0.504	105	51 - 132
Endrin aldehyde [2C]	0.481	BRL	0.512	107	51 - 132
alpha-Chlordane	0.481	BRL	0.427	89	60 - 129
alpha-Chlordane [2C]	0.481	BRL	0.465	97	60 - 129
Chlordane (gamma)(trans)	0.481	BRL	0.410	85	56 - 136
Chlordane (gamma)(trans) [2C]	0.481	BRL	0.450	94	56 - 136
Alachlor	0.481	BRL	0.518	108	30 - 150
Alachlor [2C]	0.481	BRL	0.467	97	30 - 150

File ID: M4140907.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
alpha-BHC	0.485	0.437	90	10	20	54 - 138
alpha-BHC [2C]	0.485	0.421	87	9	20	54 - 138
beta-BHC	0.485	0.469	97	9	20	56 - 136
beta-BHC [2C]	0.485	0.493	101	9	20	56 - 136
delta-BHC	0.485	0.453	93	7	20	52 - 142
delta-BHC [2C]	0.485	0.473	98	12	20	52 - 142
gamma-BHC (Lindane)	0.485	0.463	95	10	20	59 - 134
gamma-BHC (Lindane) [2C]	0.485	0.488	100	9	20	59 - 134
Heptachlor	0.485	0.439	90	9	20	54 - 130
Heptachlor [2C]	0.485	0.467	96	10	20	54 - 130

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS14

Batch: 1715010

Laboratory ID: 1715010-MSD1

Preparation: SW846 3510C

Initial/Final: 1030 ml / 10 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17G0198

Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m

Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

File ID: M4140907.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Aldrin	0.485	0.413	85	10	20	45 - 134
Aldrin [2C]	0.485	0.453	93	10	20	45 - 134
Heptachlor epoxide	0.485	0.460	95	9	20	61 - 133
Heptachlor epoxide [2C]	0.485	0.490	101	10	20	61 - 133
Endosulfan I	0.485	0.466	96	9	20	62 - 126
Endosulfan I [2C]	0.485	0.511	105	10	20	62 - 126
Dieldrin	0.485	0.465	96	10	20	60 - 136
Dieldrin [2C]	0.485	0.507	104	10	20	60 - 136
4,4'-DDE (p,p')	0.485	0.463	95	10	20	57 - 135
4,4'-DDE (p,p') [2C]	0.485	0.505	104	8	20	57 - 135
Endrin	0.485	0.526	108	11	20	60 - 138
Endrin [2C]	0.485	0.572	118	8	20	60 - 138
Endosulfan II	0.485	0.502	103	12	20	52 - 135
Endosulfan II [2C]	0.485	0.497	102	8	20	52 - 135
4,4'-DDD (p,p')	0.485	0.474	98	12	20	56 - 143
4,4'-DDD (p,p') [2C]	0.485	0.505	104	8	20	56 - 143
Endosulfan sulfate	0.485	0.507	104	11	20	62 - 133
Endosulfan sulfate [2C]	0.485	0.497	102	8	20	62 - 133
4,4'-DDT (p,p')	0.485	0.541	112	13	20	51 - 143
4,4'-DDT (p,p') [2C]	0.485	0.481	99	9	20	51 - 143
Methoxychlor	0.485	0.586	121	4	20	54 - 145
Methoxychlor [2C]	0.485	0.510	105	9	20	54 - 145
Endrin ketone	0.485	0.511	105	10	20	58 - 134
Endrin ketone [2C]	0.485	0.471	97	4	20	58 - 134
Endrin aldehyde	0.485	0.558	115	10	20	51 - 132
Endrin aldehyde [2C]	0.485	0.548	113	7	20	51 - 132
alpha-Chlordane	0.485	0.468	96	9	20	60 - 129
alpha-Chlordane [2C]	0.485	0.496	102	7	20	60 - 129
Chlordane (gamma)(trans)	0.485	0.450	93	9	20	56 - 136

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 8081B

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	<u>HPS14</u>
Batch:	<u>1715010</u>	Laboratory ID:	<u>1715010-MSD1</u>
Preparation:	<u>SW846 3510C</u>	Initial/Final:	<u>1030 ml / 10 ml</u>
Source Sample Name:	<u>TF1-MW-1005-083017</u>	% Solids:	
		Spike ID:	17G0198

Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m

Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

File ID: M4140907.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Chlordane (gamma)(trans) [2C]	0.485	0.494	102	9	20	56 - 136
Alachlor	0.485	0.563	116	8	20	30 - 150
Alachlor [2C]	0.485	0.493	102	5	20	30 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV - METHOD BLANK SUMMARY
SW846 8081B

1715010-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Laboratory ID: 1715010-BLK1 File ID: B2140907.D
Preparation: SW846 3510C Initial/Final: 990 ml / 10 ml
Analyzed: 09/07/17 23:04 Instrument: HPS14
Batch: 1715010 Sequence: S708006 Calibration: 1709015
Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m
Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715010-BS1	L3140907.D	09/07/17	23:21
LCS Dup	1715010-BSD1	L4140907.D	09/07/17	23:39
Matrix Spike	1715010-MS1	M3140907.D	09/08/17	0:14
Matrix Spike Dup	1715010-MSD1	M4140907.D	09/08/17	0:31
TF1-MW-1007-083017	SC38733-01	3873301.D	09/08/17	3:25
TF1-MW-1007D-083017	SC38733-02	3873302.D	09/08/17	3:43
TF1-GZ-112-083017	SC38733-03	3873303.D	09/08/17	4:00
TF1-MW-1005-083017	SC38733-04	3873304.D	09/08/17	4:18
TF1-GZ-118-083017	SC38733-05	3873305.D	09/08/17	4:35

FORM I - ANALYSIS DATA SHEET
SW846 8081B

1715010-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Matrix: Aqueous Laboratory ID: 1715010-BLK1 File ID: B2140907.D
 Preparation: SW846 3510C Initial/Final: 990 ml / 10 ml
 Analyzed: 09/07/17 23:04 Instrument: HPS14
 Batch: 1715010 Sequence: S708006 Calibration: 1709015

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.020	U	0.012	0.020	0.020
319-84-6	alpha-BHC [2C]	1	0.020	U	0.018	0.020	0.020
319-85-7	beta-BHC	1	0.020	U	0.015	0.020	0.020
319-85-7	beta-BHC [2C]	1	0.020	U	0.019	0.020	0.020
319-86-8	delta-BHC	1	0.020	U	0.016	0.020	0.020
319-86-8	delta-BHC [2C]	1	0.020	U	0.019	0.020	0.020
58-89-9	gamma-BHC (Lindane)	1	0.020	U	0.017	0.020	0.020
58-89-9	gamma-BHC (Lindane) [2C]	1	0.020	U	0.018	0.020	0.020
76-44-8	Heptachlor	1	0.020	U	0.020	0.020	0.020
76-44-8	Heptachlor [2C]	1	0.020	U	0.020	0.020	0.020
309-00-2	Aldrin	1	0.020	U	0.016	0.020	0.020
309-00-2	Aldrin [2C]	1	0.020	U	0.019	0.020	0.020
1024-57-3	Heptachlor epoxide	1	0.020	U	0.015	0.020	0.020
1024-57-3	Heptachlor epoxide [2C]	1	0.020	U	0.015	0.020	0.020
959-98-8	Endosulfan I	1	0.020	U	0.016	0.020	0.020
959-98-8	Endosulfan I [2C]	1	0.020	U	0.016	0.020	0.020
60-57-1	Dieldrin	1	0.020	U	0.017	0.020	0.020
60-57-1	Dieldrin [2C]	1	0.020	U	0.019	0.020	0.020
72-55-9	4,4'-DDE (p,p')	1	0.020	U	0.018	0.020	0.020
72-55-9	4,4'-DDE (p,p') [2C]	1	0.020	U	0.018	0.020	0.020
72-20-8	Endrin	1	0.020	U	0.019	0.020	0.040
72-20-8	Endrin [2C]	1	0.020	U	0.020	0.020	0.040
33213-65-9	Endosulfan II	1	0.020	U	0.020	0.020	0.040
33213-65-9	Endosulfan II [2C]	1	0.020	U	0.016	0.020	0.040
72-54-8	4,4'-DDD (p,p')	1	0.020	U	0.019	0.020	0.040
72-54-8	4,4'-DDD (p,p') [2C]	1	0.020	U	0.018	0.020	0.040
1031-07-8	Endosulfan sulfate	1	0.020	U	0.020	0.020	0.040
1031-07-8	Endosulfan sulfate [2C]	1	0.020	U	0.017	0.020	0.040
50-29-3	4,4'-DDT (p,p')	1	0.030	U	0.018	0.030	0.040
50-29-3	4,4'-DDT (p,p') [2C]	1	0.030	U	0.022	0.030	0.040
72-43-5	Methoxychlor	1	0.020	U	0.018	0.020	0.040
72-43-5	Methoxychlor [2C]	1	0.020	U	0.018	0.020	0.040

FORM I - ANALYSIS DATA SHEET
SW846 8081B

1715010-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
 Matrix: Aqueous Laboratory ID: 1715010-BLK1 File ID: B2140907.D
 Preparation: SW846 3510C Initial/Final: 990 ml / 10 ml
 Analyzed: 09/07/17 23:04 Instrument: HPS14
 Batch: 1715010 Sequence: S708006 Calibration: 1709015

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
53494-70-5	Endrin ketone	1	0.020	U	0.017	0.020	0.040
53494-70-5	Endrin ketone [2C]	1	0.020	U	0.018	0.020	0.040
7421-93-4	Endrin aldehyde	1	0.020	U	0.019	0.020	0.040
7421-93-4	Endrin aldehyde [2C]	1	0.020	U	0.018	0.020	0.040
5103-71-9	alpha-Chlordane	1	0.020	U	0.016	0.020	0.020
5103-71-9	alpha-Chlordane [2C]	1	0.020	U	0.017	0.020	0.020
5103-74-2	Chlordane (gamma)(trans)	1	0.020	U	0.016	0.020	0.020
5103-74-2	Chlordane (gamma)(trans) [2C]	1	0.020	U	0.014	0.020	0.020
8001-35-2	Toxaphene	1	0.505	U	0.331	0.505	0.505
8001-35-2	Toxaphene [2C]	1	0.505	U	0.290	0.505	0.505
57-74-9	Chlordane	1	0.066	U	0.052	0.066	0.066
57-74-9	Chlordane [2C]	1	0.066	U	0.062	0.066	0.066
15972-60-8	Alachlor	1	0.020	U	0.019	0.020	0.020
15972-60-8	Alachlor [2C]	1	0.020	U	0.018	0.020	0.020

FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708006

Instrument: HPS14

Matrix: Aqueous

Calibration: 1709015

Analyzed: 09/07/17 22:11

File ID: C3140907.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	81166410	2.65	80437760	2.37								
Upper Limit	162332820	3.15	160875520	2.87								
Lower Limit	40583205	2.15	40218880	1.87								
Sample ID												
Calibration Check (S708006-CCV2)	76713720	2.65	74141700	2.38								
Calibration Check (S708006-CCV3)	75889220	2.65	72407130	2.38								
Calibration Check (S708006-CCV4)	84498780	2.65	77053920	2.37								
Calibration Check (S708006-CCV5)	77662810	2.65	74061870	2.38								
Calibration Check (S708006-CCV6)	77592990	2.65	74578450	2.38								
Blank (1715010-BLK1)	85573700	2.65	78935570	2.38								
LCS (1715010-BS1)	84731020	2.65	79211060	2.38								
LCS Dup (1715010-BSD1)	85832340	2.65	78682690	2.39								
Matrix Spike (1715010-MS1)	79662370	2.65	68591190	2.38								
Matrix Spike Dup (1715010-MSD1)	79489740	2.65	72598820	2.37								
Instrument Blank (S708006-IBL1)	94605500	2.66	96739030	2.37								
Instrument Blank (S708006-IBL2)	75007010	2.66	73442400	2.36								
Performance Mix (S708006-PEM1)	73945500	2.65	70583520	2.37								
Performance Mix (S708006-PEM2)	75469660	2.66	69773980	2.36								
TF1-MW-1007-083017 (SC38733-01)	86586630	2.65	77045200	2.38								
TF1-MW-1007D-083017 (SC38733-02)	83868810	2.65	77379560	2.38								
TF1-GZ-112-083017 (SC38733-03)	93240300	2.65	87276380	2.39								
TF1-MW-1005-083017 (SC38733-04)	78649390	2.65	67451180	2.37								
TF1-GZ-118-083017 (SC38733-05)	86626340	2.65	74585880	2.38								

IS1 = 2,4,5,6-TC-M-Xylene (IS)

IS2 = 2,4,5,6-TC-M-Xylene (IS) [2C]

Column to be used to flag internal standard area values

* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS**SW846 8081B****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC38733**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
alpha-BHC	0.012	0.020	µg/l
alpha-BHC [2C]	0.018	0.020	µg/l
beta-BHC	0.015	0.020	µg/l
beta-BHC [2C]	0.019	0.020	µg/l
delta-BHC	0.015	0.020	µg/l
delta-BHC [2C]	0.019	0.020	µg/l
gamma-BHC (Lindane)	0.017	0.020	µg/l
gamma-BHC (Lindane) [2C]	0.018	0.020	µg/l
Heptachlor	0.020	0.020	µg/l
Heptachlor [2C]	0.020	0.020	µg/l
Aldrin	0.016	0.020	µg/l
Aldrin [2C]	0.019	0.020	µg/l
Heptachlor epoxide	0.015	0.020	µg/l
Heptachlor epoxide [2C]	0.015	0.020	µg/l
Endosulfan I	0.016	0.020	µg/l
Endosulfan I [2C]	0.016	0.020	µg/l
Dieldrin	0.017	0.020	µg/l
Dieldrin [2C]	0.019	0.020	µg/l
4,4'-DDE (p,p')	0.018	0.020	µg/l
4,4'-DDE (p,p') [2C]	0.018	0.020	µg/l
Endrin	0.019	0.040	µg/l
Endrin [2C]	0.019	0.040	µg/l
Endosulfan II	0.020	0.040	µg/l
Endosulfan II [2C]	0.016	0.040	µg/l
4,4'-DDD (p,p')	0.019	0.040	µg/l
4,4'-DDD (p,p') [2C]	0.017	0.040	µg/l
Endosulfan sulfate	0.020	0.040	µg/l
Endosulfan sulfate [2C]	0.017	0.040	µg/l
4,4'-DDT (p,p')	0.018	0.040	µg/l
4,4'-DDT (p,p') [2C]	0.022	0.040	µg/l
Methoxychlor	0.018	0.040	µg/l
Methoxychlor [2C]	0.018	0.040	µg/l
Endrin ketone	0.017	0.040	µg/l
Endrin ketone [2C]	0.018	0.040	µg/l
Endrin aldehyde	0.019	0.040	µg/l
Endrin aldehyde [2C]	0.018	0.040	µg/l
alpha-Chlordane	0.015	0.020	µg/l
alpha-Chlordane [2C]	0.017	0.020	µg/l
Chlordane (gamma)(trans)	0.016	0.020	µg/l

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS**SW846 8081B****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC38733**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Chlordane (gamma)(trans) [2C]	0.014	0.020	µg/l
Toxaphene	0.328	0.500	µg/l
Toxaphene [2C]	0.287	0.500	µg/l
Toxaphene (1)	0.328	0.500	µg/l
Toxaphene (1) [2C]	0.287	0.500	µg/l
Toxaphene (2)	0.328	0.500	µg/l
Toxaphene (2) [2C]	0.287	0.500	µg/l
Toxaphene (3)	0.328	0.500	µg/l
Toxaphene (3) [2C]	0.287	0.500	µg/l
Toxaphene (4)	0.328	0.500	µg/l
Toxaphene (4) [2C]	0.287	0.500	µg/l
Toxaphene (5)	0.328	0.500	µg/l
Toxaphene (5) [2C]	0.287	0.500	µg/l
Chlordane	0.051	0.065	µg/l
Chlordane [2C]	0.061	0.065	µg/l
Chlordane (1)	0.051	0.065	µg/l
Chlordane (1) [2C]	0.061	0.065	µg/l
Chlordane (2)	0.051	0.065	µg/l
Chlordane (2) [2C]	0.061	0.065	µg/l
Chlordane (3)	0.051	0.065	µg/l
Chlordane (3) [2C]	0.061	0.065	µg/l
Chlordane (4)	0.051	0.065	µg/l
Chlordane (4) [2C]	0.061	0.065	µg/l
Chlordane (5)	0.051	0.065	µg/l
Chlordane (5) [2C]	0.061	0.065	µg/l
Alachlor	0.019	0.020	µg/l
Alachlor [2C]	0.018	0.020	µg/l

Case Narrative/Conformance Summary

Custom TPH by GC with Ranges

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: THO37

EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

Sample #	Client ID	Matrix		DF	Comments
		Liquid	Solid		
9192948	SC38733-01	X		1	
9192949	SC38733-02	X		1	
9192950	SC38733-03	X		1	
9192951	SC38733-04	X		1	Unspiked
9192952	SC38733-04MS	X		1	Matrix Spike
9192953	SC38733-04MSD	X		1	Matrix Spike Duplicate
9192954	SC38733-05	X		1	

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.
See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

(Sample number(s): 9192948-9192954: Analysis: 02740)
The holding time was not met.

(Sample number(s): 9192948-9192954: Analysis: 02740)
The holding time was not met. The sample was submitted to the laboratory with insufficient time remaining in the holding time.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

All QC is within specification.

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: THO37

EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
+MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Quality Control Reference List
EPH/Miscellaneous GC

CLIENT: Eurofins Spectrum Analytical
SDG: THO37

Fraction: Custom TPH by GC with Ranges

Analysis	Batch Number	Sample Number	Analysis Date
Custom TPH with Ranges (Water)	172490041A	PBLK41249	09/08/2017 08:41:00
		LCS41249	09/08/2017 09:02:00
		9192948	09/08/2017 09:24:00
		9192949	09/08/2017 09:46:00
		9192950	09/08/2017 10:08:00
		9192951 UNSPK	09/08/2017 10:30:00
		9192952 MS	09/08/2017 10:51:00
		9192953 MSD	09/08/2017 11:13:00
		9192954	09/08/2017 11:35:00

Fraction: Custom TPH by GC with Ranges

172490041A / PBLK41249 Analyte	Analysis Date	Blank Results	Units	DL	LOD	LOQ
Total TPH	09/08/17	N.D.	mg/l	0.050	0.10	0.20
C8-C44	09/08/17	N.D.	mg/l	0.050	0.10	0.20

Fraction: Custom TPH by GC with Ranges

Sample	Chlorobenzene		Orthoterphenyl	
	Spike Added	0.0121 mg/l	Spike Added	0.0121 mg/l
	% Recovery	Limits	% Recovery	Limits
PBLK41249	77	35 - 135	90	56 - 125
LCS41249	88	35 - 135	93	56 - 125
9192948	85	35 - 135	93	56 - 125
9192949	85	35 - 135	93	56 - 125
9192950	114	35 - 135	95	56 - 125
9192951 UNSPK	90	35 - 135	94	56 - 125
9192952 MS	95	35 - 135	86	56 - 125
9192953 MSD	97	35 - 135	91	56 - 125
9192954	77	35 - 135	91	56 - 125

EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

UNSPK: 9192951 MS: 9192952 MSD: 9192953 Analyte	Batch: 172490041A (Sample number(s): 9192948-9192954)								
	Spike Added mg/l MS/MSD	Unspiked Conc mg/l	MS Conc mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits
Total TPH	0.814 / 0.817	0.129	0.791	0.832	81	86	36-132	5	30

Comments:

(2) The unspiked sample result is greater than four times the spike added.

* = Out of Specification

Results are being reported on an as received basis.

EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

LCS: LCS41249	Batch: 172490041A (Sample number(s): 9192948-9192954)							
Analyte	Spike Added mg/l	LCS Conc mg/l	LCSD Conc mg/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Total TPH	0.800	0.642	NA	80	NA	36-132	NA	NA

Fraction: Custom TPH by GC with Ranges

02740: Custom TPH with Ranges (Water) Analyte Name	Default DL	Default LOD	Default LOQ	Units
Total TPH	.05	.1	0.20	mg/l
C8-C44	.05	.1	0.20	mg/l

SW846 6010C

CROSS REFERENCE TABLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Project Number: 112608005-WE15

Client Sample ID:

TF1-MW-1007-083017

TF1-MW-1007D-083017

TF1-GZ-112-083017

TF1-MW-1005-083017

TF1-GZ-118-083017

Lab Sample ID:

SC38733-01

SC38733-02

SC38733-03

SC38733-04

SC38733-05

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38733

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SW846 6010C.

IV. PREPARATION

Aqueous samples were prepared according to SW846 3005A.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 6010C:

ICAP5 details: Thermo ICAP 6000 series CETAC Autosampler

All sample data within this SDG was generated after ICP-AES interelement corrections and background corrections were applied.

Samples are diluted when concentrations exceed the highest calibration standard in the associated curve, therefore Linear Ranges are not performed.

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715597 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

3. Post Spike Samples (PS):

A post spike was analyzed.

In batch 1715597 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1715597 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

E. Serial Dilutions:

All quality control criteria were met.

F. Samples:

All method criteria were met.

FORM III - BLANKS**SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: ICAP5Calibration: 1711040Sequence: S710180

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710180-ICB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710180-CCB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C

FORM III - BLANKS

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: ICAP5

Calibration: 1711040

Sequence: S710181

NA - CCB2 not associated with
environmental samples in this SDG

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710181-CCB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710181-CCB2	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	0.0148	0.200	mg/l	J	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710181-CCB3	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
1715597-BLK1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710181-CCB4	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710181-CCB5	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C

FORM IV - ICP INTERFERENCE CHECK SAMPLE**SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: ICAP5Calibration: 1711040Sequence: S710181Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S710181-IFA1	Iron	100	101.00000	101
	Potassium		-0.05870	
	Sodium		-0.05230	
	Aluminum	250	273.30000	109
	Calcium	250	267.80000	107
	Magnesium	250	248.40000	99
	Iron	100	92.62000	93
	Potassium		-0.05890	
	Sodium		-0.06430	
	Aluminum	250	257.80000	103
	Calcium	250	243.40000	97
	Magnesium	250	233.90000	94
S710181-IFA2	Iron	100	91.11000	91
	Potassium		-0.05430	
	Sodium		-0.07330	
	Aluminum	250	250.80000	100
	Calcium	250	243.20000	97
	Magnesium	250	224.00000	90
	Iron	100	92.33000	92
	Potassium		-0.05540	
	Sodium		-0.07720	
	Aluminum	250	257.90000	103
	Calcium	250	245.30000	98
	Magnesium	250	228.70000	91

* Values outside of QC limits (Acceptance Limits: +/- 20% of the true value or +/- 2xMRL)

FORM Vb - POST DIGEST SPIKE SAMPLE RECOVERY

TF1-MW-1005-083017

SW846 6010CLaboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportMatrix: AqueousLaboratory ID: 1715597-PS1Batch: 1715597Lab Source ID: SC38733-04Preparation: SW846 3005AInitial/Final: 50 ml / 50 mlSource Sample Name: TF1-MW-1005-083017

% Solids:

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/l)	Sample Result (SR) (mg/l)	Spike Added (SA) (mg/l)	%R	Method
Iron	80 - 120	8.63	6.29	2.50	94	SW846 6010C
Potassium	80 - 120	25.5	1.24	25.0	97	SW846 6010C
Sodium	80 - 120	17.9	6.02	12.5	95	SW846 6010C
Aluminum	80 - 120	2.51	0.0341	2.50	99	SW846 6010C
Calcium	80 - 120	19.0	6.63	12.5	99	SW846 6010C
Magnesium	80 - 120	5.01	2.63	2.50	95	SW846 6010C

* Values outside of QC limits

FORM IIIc - DUPLICATES**TF1-MW-1005-083017****SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportMatrix: AqueousLaboratory ID: 1715597-DUP1Batch: 1715597Lab Source ID: SC38733-04Preparation: SW846 3005AInitial/Final: 50 ml / 50 mlSource Sample Name: TF1-MW-1005-083017

% Solids:

File ID: 20170918-274

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Iron	20	6.29		6.38		2		SW846 6010C
Potassium	20	1.24		1.25		1		SW846 6010C
Sodium	20	6.02		6.08		0.9		SW846 6010C
Aluminum	20	0.0341		0.0333		2		SW846 6010C
Calcium	20	6.63		6.75		2		SW846 6010C
Magnesium	20	2.63		2.63		0.04		SW846 6010C

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: ICAP5

Batch: 1715597

Laboratory ID: 1715597-BS1

Preparation: SW846 3005A

Initial/Final: 50 ml / 50 ml

Analyzed: 09/19/17 07:56

Spike ID: 17H1034

File ID: 20170918-267

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Iron	2.50	2.57	103	87 - 115
Potassium	25.0	25.3	101	86 - 114
Sodium	12.5	12.4	99	87 - 115
Aluminum	2.50	2.51	100	86 - 115
Calcium	12.5	12.7	102	87 - 113
Magnesium	2.50	2.60	104	85 - 113

File ID: 20170918-268

COMPOUND	SPIKE ADDED (mg/l)	LCSD CONCENTRATION (mg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Iron	2.50	2.56	102	0.6	20	87 - 115
Potassium	25.0	24.7	99	2	20	86 - 114
Sodium	12.5	12.1	97	2	20	87 - 115
Aluminum	2.50	2.55	102	2	20	86 - 115
Calcium	12.5	12.8	103	0.9	20	87 - 113
Magnesium	2.50	2.53	101	3	20	85 - 113

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: ICAP5

Batch: 1715597

Laboratory ID: 1715597-MS1

Preparation: SW846 3005A

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17H1034

File ID: 20170918-275

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Iron	2.50	6.29	8.66	95	87 - 115
Potassium	25.0	1.24	25.7	98	86 - 114
Sodium	12.5	6.02	18.1	96	87 - 115
Aluminum	2.50	0.0341	2.55	101	86 - 115
Calcium	12.5	6.63	19.0	99	87 - 113
Magnesium	2.50	2.63	5.01	95	85 - 113

File ID: 20170918-278

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Iron	2.50	9.08	112	5	20	87 - 115
Potassium	25.0	26.2	100	2	20	86 - 114
Sodium	12.5	18.5	100	2	20	87 - 115
Aluminum	2.50	2.63	104	3	20	86 - 115
Calcium	12.5	19.8	105	4	20	87 - 113
Magnesium	2.50	5.15	101	3	20	85 - 113

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM VIII - SERIAL DILUTION**SW846 6010C**TF1-MW-1005-083017Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportLaboratory ID: S710181-SRD2Lab Source ID: SC38733-04Sequence: S710181Initial/Final: 50 / 50Preparation: 1715597Source Sample Name: TF1-MW-1005-083017

% Solids:

Units: mg/l

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Iron	6.29		6.70		6		SW846 6010C	10
Potassium	1.24		1.12				SW846 6010C	10
Sodium	6.02		5.74		5		SW846 6010C	10
Aluminum	BRL		BRL				SW846 6010C	10
Calcium	6.63		7.04		6		SW846 6010C	10
Magnesium	2.63		2.69		2		SW846 6010C	10

* Values outside of QC limits

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Iron	0.0089	0.0300	mg/l
Potassium	0.120	1.00	mg/l
Sodium	0.0785	0.500	mg/l
Aluminum	0.0206	0.0500	mg/l
Calcium	0.0142	0.200	mg/l
Magnesium	0.0088	0.0200	mg/l

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710180

Instrument: ICAP5

Calibration: 1711040

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S710180-CAL1	20170918-001	09/18/17 09:26
Cal Standard	S710180-CAL2	20170918-002	09/18/17 09:30
Cal Standard	S710180-CAL3	20170918-003	09/18/17 09:34
Cal Standard	S710180-CAL4	20170918-004	09/18/17 09:38
Cal Standard	S710180-CAL5	20170918-005	09/18/17 09:42
Cal Standard	S710180-CAL6	20170918-006	09/18/17 09:45
Cal Standard	S710180-CAL7	20170918-007	09/18/17 09:49
Cal Standard	S710180-CAL8	20170918-008	09/18/17 09:54
Cal Standard	S710180-CAL9	20170918-009	09/18/17 09:58
Cal Standard	S710180-CAL9	20170918-010	09/18/17 10:05
Initial Cal Check	S710180-ICV1	20170918-011	09/18/17 10:12
Initial Cal Blank	S710180-ICB1	20170918-012	09/18/17 10:17
Instrument RL Check	S710180-CRL1	20170918-013	09/18/17 10:22
Instrument RL Check	S710180-CRL2	20170918-014	09/18/17 10:27
Calibration Check	S710180-CCV1	20170918-017	09/18/17 10:43
Calibration Blank	S710180-CCB1	20170918-018	09/18/17 10:48

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710180

Instrument: ICAP5

Calibration: 1711040

Sample Name	Lab ID	D/F	Time	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N
Cal Standard	S710180-CAL1	1	09/18/17 09:26	X						X				X		X				X			X				
Cal Standard	S710180-CAL2	1	09/18/17 09:30	X						X				X		X				X			X				
Cal Standard	S710180-CAL3	1	09/18/17 09:34	X						X				X		X				X			X				
Cal Standard	S710180-CAL4	1	09/18/17 09:38	X						X				X		X				X			X				
Cal Standard	S710180-CAL5	1	09/18/17 09:42	X						X				X		X				X			X				
Cal Standard	S710180-CAL6	1	09/18/17 09:45	X						X				X		X				X			X				
Cal Standard	S710180-CAL7	1	09/18/17 09:49	X						X				X		X				X			X				
Cal Standard	S710180-CAL8	1	09/18/17 09:54	X						X				X		X				X			X				
Cal Standard	S710180-CAL9	1	09/18/17 09:58	X						X										X			X				
Cal Standard	S710180-CAL9	1	09/18/17 10:05											X													
Initial Cal Check	S710180-ICV1	1	09/18/17 10:12	X						X				X		X				X			X				
Initial Cal Blank	S710180-ICB1	1	09/18/17 10:17	X						X				X		X				X			X				
Instrument RL Check	S710180-CRL1	1	09/18/17 10:22	X						X						X				X			X				
Instrument RL Check	S710180-CRL2	1	09/18/17 10:27	X						X				X		X				X			X				
Calibration Check	S710180-CCV1	1	09/18/17 10:43	X						X				X		X				X			X				
Calibration Blank	S710180-CCB1	1	09/18/17 10:48	X						X				X		X				X			X				

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710181

Instrument: ICAP5

Calibration: 1711040

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S710181-CCV1	20170918-240	09/19/17 05:38
Calibration Blank	S710181-CCB1	20170918-241	09/19/17 05:43
Instrument RL Check	S710181-CRL1	20170918-242	09/19/17 05:48
Instrument RL Check	S710181-CRL2	20170918-243	09/19/17 05:53
Calibration Check	S710181-CCV2	20170918-254	09/19/17 06:49
Calibration Blank	S710181-CCB2	20170918-255	09/19/17 06:54
Instrument RL Check	S710181-CRL3	20170918-260	09/19/17 07:20
Instrument RL Check	S710181-CRL4	20170918-261	09/19/17 07:25
Interference Check A	S710181-IFA1	20170918-262	09/19/17 07:30
Interference Check B	S710181-IFB1	20170918-263	09/19/17 07:35
Calibration Check	S710181-CCV3	20170918-264	09/19/17 07:40
Calibration Blank	S710181-CCB3	20170918-265	09/19/17 07:45
Blank	1715597-BLK1	20170918-266	09/19/17 07:51
LCS	1715597-BS1	20170918-267	09/19/17 07:56
LCS Dup	1715597-BSD1	20170918-268	09/19/17 08:01
TF1-MW-1007-083017	SC38733-01	20170918-269	09/19/17 08:06
TF1-MW-1007D-083017	SC38733-02	20170918-270	09/19/17 08:11
TF1-GZ-112-083017	SC38733-03	20170918-271	09/19/17 08:16
TF1-MW-1005-083017	S710181-SRD2	20170918-272	09/19/17 08:21
TF1-MW-1005-083017	SC38733-04	20170918-273	09/19/17 08:27
TF1-MW-1005-083017	1715597-DUP1	20170918-274	09/19/17 08:32
TF1-MW-1005-083017	1715597-MS1	20170918-275	09/19/17 08:37
Calibration Check	S710181-CCV4	20170918-276	09/19/17 08:42
Calibration Blank	S710181-CCB4	20170918-277	09/19/17 08:47
TF1-MW-1005-083017	1715597-MSD1	20170918-278	09/19/17 08:52
TF1-MW-1005-083017	1715597-PS1	20170918-279	09/19/17 08:57
TF1-GZ-118-083017	SC38733-05	20170918-280	09/19/17 09:02
Instrument RL Check	S710181-CRL5	20170918-281	09/19/17 09:07
Instrument RL Check	S710181-CRL6	20170918-282	09/19/17 09:12
Interference Check A	S710181-IFA2	20170918-283	09/19/17 09:17
Interference Check B	S710181-IFB2	20170918-284	09/19/17 09:23
Calibration Check	S710181-CCV5	20170918-285	09/19/17 09:28
Calibration Blank	S710181-CCB5	20170918-286	09/19/17 09:33

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710181

Instrument: ICAP5

Calibration: 1711040

Sample Name	Lab ID	D/F	Time	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N				
Calibration Check	S710181-CCV1	1	09/19/17 05:38	X						X				X		X				X			X								
Calibration Blank	S710181-CCB1	1	09/19/17 05:43	X						X				X		X				X			X								
Instrument RL Check	S710181-CRL1	1	09/19/17 05:48	X						X				X		X				X			X								
Instrument RL Check	S710181-CRL2	1	09/19/17 05:53	X						X				X		X				X			X								
Calibration Check	S710181-CCV2	1	09/19/17 06:49	X						X				X		X				X			X								
Calibration Blank	S710181-CCB2	1	09/19/17 06:54	X						X				X		X				X			X								
Instrument RL Check	S710181-CRL3	1	09/19/17 07:20	X						X				X		X				X			X								
Instrument RL Check	S710181-CRL4	1	09/19/17 07:25	X						X				X		X				X			X								
Interference Check A	S710181-IFA1	1	09/19/17 07:30	X						X				X		X				X			X								
Interference Check B	S710181-IFB1	1	09/19/17 07:35	X						X				X		X				X			X								
Calibration Check	S710181-CCV3	1	09/19/17 07:40	X						X				X		X				X			X								
Calibration Blank	S710181-CCB3	1	09/19/17 07:45	X						X				X		X				X			X								
Blank	1715597-BLK1	1	09/19/17 07:51	X						X				X		X				X			X								
LCS	1715597-BS1	1	09/19/17 07:56	X						X				X		X				X			X								
LCS Dup	1715597-BSD1	1	09/19/17 08:01	X						X				X		X				X			X								
TF1-MW-1007-08301	SC38733-01	1	09/19/17 08:06	X						X				X		X				X			X								
TF1-MW-1007D-083	SC38733-02	1	09/19/17 08:11	X						X				X		X				X			X								
TF1-GZ-112-083017	SC38733-03	1	09/19/17 08:16	X						X				X		X				X			X								
TF1-MW-1005-08301	S710181-SRD2	5	09/19/17 08:21	X						X				X		X				X			X								
TF1-MW-1005-08301	SC38733-04	1	09/19/17 08:27	X						X				X		X				X			X								
TF1-MW-1005-08301	1715597-DUP1	1	09/19/17 08:32	X						X				X		X				X			X								
TF1-MW-1005-08301	1715597-MS1	1	09/19/17 08:37	X						X				X		X				X			X								
Calibration Check	S710181-CCV4	1	09/19/17 08:42	X						X				X		X				X			X								
Calibration Blank	S710181-CCB4	1	09/19/17 08:47	X						X				X		X				X			X								
TF1-MW-1005-08301	1715597-MSD1	1	09/19/17 08:52	X						X				X		X				X			X								
TF1-MW-1005-08301	1715597-PS1	1	09/19/17 08:57	X						X				X		X				X			X								
TF1-GZ-118-083017	SC38733-05	1	09/19/17 09:02	X						X				X		X				X			X								
Instrument RL Check	S710181-CRL5	1	09/19/17 09:07	X						X				X		X				X			X								
Instrument RL Check	S710181-CRL6	1	09/19/17 09:12	X						X				X		X				X			X								
Interference Check A	S710181-IFA2	1	09/19/17 09:17	X						X				X		X				X			X								
Interference Check B	S710181-IFB2	1	09/19/17 09:23	X						X				X		X				X			X								
Calibration Check	S710181-CCV5	1	09/19/17 09:28	X						X				X		X				X			X								
Calibration Blank	S710181-CCB5	1	09/19/17 09:33	X						X				X		X				X			X								

Metals in Liquid Data

DoD Type I Data Package

Prepared for:

Eurofins Spectrum Analytical

11 Almgren Drive
Agawan MA 01001

Project: SC38733
Groundwater Samples
Collected on 08/30/17

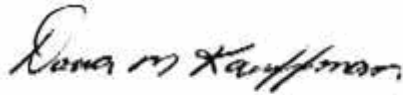
SDG# SAI28

GROUP	SAMPLE NUMBERS
1857446	9240404-9240411

A2LA (DoD) Cert. # 0001.01
PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-13-10
AZ Cert. # AZ0780

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by:



Date: 10/27/2017

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Stephen Gordon at (724) 597-2027.

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Sample Reference List for SDG Number SAI28
with a Data Package Type of I-DOD
30891 - Eurofins Spectrum Analytical
Project: SC38733

Lab Sample Number	Client Sample ID	Collection Date	Date Received
9240404	SC38733-01	08/30/2017 10:52	09/30/2017 09:55
9240405	SC38733-02	08/30/2017 14:55	09/30/2017 09:55
9240406	SC38733-03	08/30/2017 14:20	09/30/2017 09:55
9240407	SC38733-04	08/30/2017 10:10	09/30/2017 09:55
9240408	SC38733-04MS	08/30/2017 10:10	09/30/2017 09:55
9240409	SC38733-04MSD	08/30/2017 10:10	09/30/2017 09:55
9240410	SC38733-04DUP	08/30/2017 10:10	09/30/2017 09:55
9240411	SC38733-05	08/30/2017 15:05	09/30/2017 09:55

Sample pH Log

SDG: SAI28

<u>LLI Sample Number</u>	<u>Bottle Code</u>	<u>Actual pH</u>	<u>Exp. pH</u>	<u>pH Check Code</u>	<u>Adj. pH</u>	<u>Adjusted Date</u>	<u>Adjusted Time</u>	<u>Preservative Added</u>	<u>Preservative Lot #</u>	<u>LLI Supplied Bottle?</u>	<u>Sulfide Present?</u>	<u>Corrective Substance</u>	<u>CS Lot #</u>	<u>Res. Cl. Present?</u>	<u>Corrective Substance</u>	<u>CS Lot #</u>	<u>Record Date</u>	<u>Employee</u>
9240404	008A	<2	<2	PK	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	10/2/2017 1:04:30PM	12616
9240405	008A	<2	<2	PK	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	10/2/2017 1:04:42PM	12616
9240406	008A	<2	<2	PK	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	10/2/2017 1:04:55PM	12616
9240407	008A	<2	<2	PK	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	10/2/2017 1:05:07PM	12616
9240408	008A	<2	<2	PK	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	10/2/2017 1:05:19PM	12616
9240409	008A	<2	<2	PK	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	10/2/2017 1:05:30PM	12616
9240411	008A	<2	<2	PK	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	10/2/2017 12:58:42PM	12616

Check Code Key

PK = Original container checked - pH is within the correct range. (No preservative was added)
PA = Original container checked - pH adjusted to correct range. (Preservative was added)
PV = Volatile container checked
PC = pH checked (unpreserved container)
SPK = Subsampled from an original container. Original container checked - pH is within correct range
SPA = Subsampled from an original container. Subsample container checked - pH adjusted to correct range.
SPC = Subsampled from an original container. pH checked (unpreserved container).
SUP = Subsampled from original container. Unable to be preserved due to the matrix of the sample.
UP = Unable to preserve due to matrix of the sample.
NA = Not applicable

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

10639 ICPMS - Water, 3020A - U4

The sample is digested with nitric and hydrochloric acid.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3020A, July 1992

06024	Antimony
06025	Arsenic
06026	Barium
06027	Beryllium
06028	Cadmium
06031	Chromium
06032	Cobalt
06033	Copper
06035	Lead
06037	Manganese
06038	Molybdenum
06039	Nickel
06041	Selenium
06042	Silver
06045	Thallium
06048	Vanadium
06049	Zinc

The solution resulting from the metals digestion is analyzed by ICP/MS.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 6020A, February 2007.

Analysis Reports / Field Chain of Custody

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

Report Date: October 16, 2017

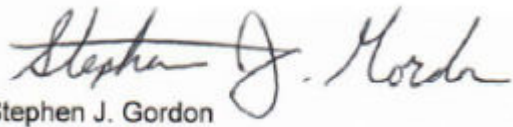
Project: SC38733Account #: 30891
Group Number: 1857446
SDG: SAI28
PO Number: SC38733
State of Sample Origin: RI

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Eurofins Spectrum Analytical

Attn: Rebecca Merz

Respectfully Submitted,


Stephen J. Gordon
Project Manager

(724) 597-2027

SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Collection Information</u>	<u>ELLE#</u>
SC38733-01 Groundwater	08/30/2017 10:52	9240404
SC38733-02 Groundwater	08/30/2017 14:55	9240405
SC38733-03 Groundwater	08/30/2017 14:20	9240406
SC38733-04 Groundwater	08/30/2017 10:10	9240407
SC38733-04MS Groundwater	08/30/2017 10:10	9240408
SC38733-04MSD Groundwater	08/30/2017 10:10	9240409
SC38733-04DUP Groundwater	08/30/2017 10:10	9240410
SC38733-05 Groundwater	08/30/2017 15:05	9240411

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Project Name: SC38733
LL Group #: 1857446

General Comments:

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

For dual column analyses, the surrogate (for multi-surrogate tests, at least one surrogate) must be within the acceptance limits on at least one of the two columns.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:**SW-846 6020A, Metals**

Batch #: 172771063903A (Sample number(s): 9240404-9240411 UNSPK: 9240407 BKG: 9240407)

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Arsenic, Manganese

Batch #: 172771063903D (Sample number(s): 9240404-9240411 UNSPK: 9240407 BKG: 9240407)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Barium

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Barium

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/16/2017 14:36

Group Number: 1857446

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	DL**	LOD	LOQ
	mg/l	mg/l	mg/l	mg/l
Batch number: 172771063903A	Sample number(s): 9240404-9240411			
Antimony	0.0010 U	0.00045	0.0010	0.0020
Arsenic	0.0020 U	0.00072	0.0020	0.0040
Beryllium	0.00025 U	0.000071	0.00025	0.0010
Cadmium	0.00050 U	0.00015	0.00050	0.0010
Chromium	0.0020 U	0.00087	0.0020	0.0040
Cobalt	0.00050 U	0.00016	0.00050	0.0010
Copper	0.0010 U	0.00054	0.0010	0.0040
Lead	0.00025 U	0.00011	0.00025	0.0020
Manganese	0.0020 U	0.00090	0.0020	0.0040
Nickel	0.0020 U	0.0010	0.0020	0.0040
Silver	0.00025 U	0.00015	0.00025	0.0010
Thallium	0.00025 U	0.00012	0.00025	0.0010
Vanadium	0.00050 U	0.00021	0.00050	0.0010
Zinc	0.0075 U	0.0039	0.0075	0.0300
Batch number: 172771063903B	Sample number(s): 9240404-9240411			
Selenium	0.0010 U	0.00050	0.0010	0.0040
Batch number: 172771063903C	Sample number(s): 9240404-9240411			
Molybdenum	0.00050 U	0.00025	0.00050	0.0010
Batch number: 172771063903D	Sample number(s): 9240404-9240411			
Barium	0.0020 U	0.00072	0.0020	0.0040

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	mg/l	mg/l	mg/l	mg/l					
Batch number: 172771063903A	Sample number(s): 9240404-9240411								
Antimony	0.00600	0.00610			102		85-117		
Arsenic	0.0100	0.0115			115		84-116		
Beryllium	0.00400	0.00415			104		83-121		
Cadmium	0.00500	0.00473			95		87-115		
Chromium	0.0500	0.0497			99		85-116		
Cobalt	0.250	0.253			101		86-115		
Copper	0.0500	0.0515			103		85-118		
Lead	0.0150	0.0152			102		88-115		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

(3) The surrogate spike amount was less than the LOD.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/16/2017 14:36

Group Number: 1857446

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0500	0.0493			99		87-115		
Nickel	0.0500	0.0504			101		85-117		
Silver	0.0500	0.0523			105		85-116		
Thallium	0.00200	0.00204			102		82-116		
Vanadium	0.0500	0.0502			100		86-115		
Zinc	0.500	0.519			104		83-119		
Batch number: 172771063903B	Sample number(s): 9240404-9240411								
Selenium	0.0100	0.0100			100		80-120		
Batch number: 172771063903C	Sample number(s): 9240404-9240411								
Molybdenum	0.0500	0.0492			98		83-115		
Batch number: 172771063903D	Sample number(s): 9240404-9240411								
Barium	0.0500	0.0501			100		86-114		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 172771063903A	Sample number(s): 9240404-9240411 UNSPK: 9240407									
Antimony	0.0010 U	0.00600	0.00555	0.00600	0.00541	92	90	85-117	3	20
Arsenic	0.0232	0.0100	0.0282	0.0100	0.0284	50*	53*	84-116	1	20
Beryllium	0.00025 U	0.00400	0.00421	0.00400	0.00408	105	102	83-121	3	20
Cadmium	0.00050 U	0.00500	0.00496	0.00500	0.00514	99	103	87-115	3	20
Chromium	0.0020 U	0.0500	0.0520	0.0500	0.0518	104	104	85-116	0	20
Cobalt	0.0581	0.250	0.314	0.250	0.304	102	98	86-115	3	20
Copper	0.0010 U	0.0500	0.0535	0.0500	0.0519	107	104	85-118	3	20
Lead	0.00025 U	0.0150	0.0154	0.0150	0.0155	102	103	88-115	1	20
Manganese	3.08	0.0500	2.97	0.0500	2.89	-220 (2)	-386 (2)	87-115	3	20
Nickel	0.0262	0.0500	0.0778	0.0500	0.0736	103	95	85-117	6	20
Silver	0.00025 U	0.0500	0.0520	0.0500	0.0492	104	98	85-116	5	20
Thallium	0.00025 U	0.00200	0.00196	0.00200	0.00205	98	102	82-116	4	20
Vanadium	0.00050 U	0.0500	0.0516	0.0500	0.0493	103	99	86-115	5	20
Zinc	0.0128	0.500	0.544	0.500	0.516	106	101	83-119	5	20
Batch number: 172771063903B	Sample number(s): 9240404-9240411 UNSPK: 9240407									
Selenium	0.0010 U	0.0100	0.00989	0.0100	0.00989	99	99	80-120	0	20
Batch number: 172771063903C	Sample number(s): 9240404-9240411 UNSPK: 9240407									
Molybdenum	0.00050 U	0.0500	0.0496	0.0500	0.0467	99	93	83-115	6	20

NA for manganese- footnote 2

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

(3) The surrogate spike amount was less than the LOD.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/16/2017 14:36

Group Number: 1857446

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 172771063903D Barium	Sample number(s): 9240404-9240411 0.0106	UNSPK: 9240407 0.0500	0.0592	0.0500	0.0680	97	115*	86-114	14	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 172771063903A	Sample number(s): 9240404-9240411	BKG: 9240407		
Antimony	0.0010 U	0.0010 U	0 (1)	20
Arsenic	0.0232	0.0193	18 (1)	20
Beryllium	0.00025 U	0.00025 U	0 (1)	20
Cadmium	0.00050 U	0.00050 U	0 (1)	20
Chromium	0.0020 U	0.0020 U	0 (1)	20
Cobalt	0.0581	0.0558	4	20
Copper	0.0010 U	0.0010 U	0 (1)	20
Lead	0.00025 U	0.00025 U	0 (1)	20
Manganese	3.08	3.06	1	20
Nickel	0.0262	0.0254	3	20
Silver	0.00025 U	0.00025 U	0 (1)	20
Thallium	0.00025 U	0.00025 U	0 (1)	20
Vanadium	0.00050 U	0.00050 U	0 (1)	20
Zinc	0.0128	0.0133	4 (1)	20
Batch number: 172771063903B	Sample number(s): 9240404-9240411	BKG: 9240407		
Selenium	0.0010 U	0.0010 U	0 (1)	20
Batch number: 172771063903C	Sample number(s): 9240404-9240411	BKG: 9240407		
Molybdenum	0.00050 U	0.00050 U	0 (1)	20
Batch number: 172771063903D	Sample number(s): 9240404-9240411	BKG: 9240407		
Barium	0.0106	0.0132	22* (1)	20

NA - footnote 1

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

(3) The surrogate spike amount was less than the LOD.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Case Narrative/Conformance Summary

Metals in Liquid

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: SAI28

ICP Metals

Fraction: Metals in Liquid

Sample #	Client ID	Matrix		Comments
		Liquid	Solid	
9240404	SC38733-01	X		
9240405	SC38733-02	X		
9240406	SC38733-03	X		
9240407	SC38733-04	X		Background/Unspiked
9240408	SC38733-04MS	X		Matrix Spike
9240409	SC38733-04MSD	X		Matrix Spike Duplicate
9240410	SC38733-04DUP	X		Duplicate
9240411	SC38733-05	X		

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.
See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

Method defined actions are taken for any failed matrix QC.

Batch#: 172771063903D (Sample number(s): 9240404-9240411, UNSPK: 9240407, BKG: 9240407)
The recovery(ies) for the following analyte(s) in the MSD exceeded the acceptance window indicating a positive bias: Barium

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: SAI28

ICP Metals

Fraction: Metals in Liquid

Batch#: 172771063903A (Sample number(s): 9240404-9240411, UNSPK: 9240407, BKG: 9240407)
The recovery(ies) for the following analyte(s) in the MS and MSD were below the acceptance window: Arsenic, Manganese

Sample Duplicate

Batch#: 172771063903D (Sample number(s): 9240404-9240411, UNSPK: 9240407, BKG: 9240407)
The duplicate RPD for the following analyte(s) is outside the acceptance window: Barium

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Refer to analysis run log for samples requiring dilutions.

The instrument detection limits (IDLs) are used for determining the U flags on the initial and continuing calibration blanks. The highest IDL is selected when multiple instruments are used for an analysis. The method detection limits (MDLs) are used for determining all other U flags.

Abbreviation Key

BKG – Background	AF - Cold Vapor Atomic Fluorescence
DUP – Duplicate	U - Below MDL
MS - Matrix Spike	B - Below LOQ
MSD - Matrix Spike Dup	N - Matrix Spike out of specifications
B – Blank	* - Duplicate out of specifications
Q - Laboratory Control Sample	E - Matrix Effects exist as proven by Serial Dilution or Spiked Dilution
Y - Laboratory Control Sample Duplicate	A - Post Digestion Spike
P - ICP Atomic Emission Spectrometer	L - Serial Dilution
MS - ICP Mass Spectrometry	R - Internal Standard Relative Intensity OOS
CV - Cold Vapor	NR - Not Required

Sample Administration
Receipt Documentation Log

Doc Log ID:

196044



Group Number(s):

1857446

Client: Spectrum

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>09/30/2017 9:55</u>
Number of Packages:	<u>3</u>	Number of Projects:	<u>11</u>
State/Province of Origin:	<u>MA</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Simon Nies (25112) at 14:48 on 09/30/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	32170023	-0.8	IR	Wet	Y	Loose	N
2	32170023	0.6	IR	Wet	Y	Loose	N
3	32170023	0.0	IR	Wet	Y	Loose	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
C	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	non-detect
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	µg	microgram(s)
m3	cubic meter(s)	µL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.

Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

EPA 245.1/7470A

CROSS REFERENCE TABLE

EPA 245.1/7470A

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>		

Client Sample ID:

TF1-MW-1007-083017
TF1-MW-1007D-083017
TF1-GZ-112-083017
TF1-MW-1005-083017
TF1-GZ-118-083017

Lab Sample ID:

SC38733-01
SC38733-02
SC38733-03
SC38733-04
SC38733-05

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38733

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to EPA 245.1/7470A.

IV. PREPARATION

Aqueous samples were prepared according to EPA200/SW7000 Series.

V. INSTRUMENTATION

The following equipment was used to analyze EPA 245.1/7470A:

Mercury4 details: Leeman Labs Hydra IIAA Mercury Analyzer

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria with the following exceptions:

In sample S710178-CCV1:

Analyte percent recovery is outside individual acceptance criteria (90-110).

Mercury (114%)

This affected the following samples:

1715599-BLK1, 1715599-BS1, 1715599-DUP1, 1715599-MS1, 1715599-MSD1, 1715599-PS1, S710178-CCV1, S710178-CCV2, S710178-CCV3, S710178-CCV4, TF1-GZ-112-083017, TF1-GZ-118-083017, TF1-MW-1005-083017, TF1-MW-1007-083017, TF1-MW-1007D-083017

In sample S710178-CCV2:

Analyte percent recovery is outside individual acceptance criteria (90-110).

Mercury (111%)

This affected the following samples:

1715599-BLK1, 1715599-BS1, 1715599-DUP1, 1715599-MS1, 1715599-MSD1, 1715599-PS1, S710178-CCV1, S710178-CCV2, S710178-CCV3, S710178-CCV4, TF1-GZ-112-083017, TF1-GZ-118-083017, TF1-MW-1005-083017, TF1-MW-1007-083017, TF1-MW-1007D-083017

Mercury in sequence S710178, samples S710178-CCV1, S710178-CCV2: Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715599 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

3. Post Spike Samples (PS):

A post spike was analyzed.

In batch 1715599 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1715599 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

E. Samples:

All method criteria were met.

FORM III - BLANKS

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: Mercury4

Calibration: 1711039

Sequence: S710177

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710177-ICB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710177-CCB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A

FORM III - BLANKS

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: Mercury4

Calibration: 1711039

Sequence: S710178

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710178-CCB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710178-CCB2	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
1715599-BLK1	Mercury	BRL	0.00020	mg/l	U	EPA 245.1/7470A
S710178-CCB3	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710178-CCB4	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A

FORM Vb - POST DIGEST SPIKE SAMPLE RECOVERY**EPA 245.1/7470A**TF1-MW-1005-083017Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportMatrix: AqueousLaboratory ID: 1715599-PS1Batch: 1715599Lab Source ID: SC38733-04Preparation: EPA200/SW7000 SeriesInitial/Final: 20 ml / 20 mlSource Sample Name: TF1-MW-1005-083017

% Solids:

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/l)	Sample Result (SR) (mg/l)	Spike Added (SA) (mg/l)	%R	Method
Mercury	85 - 115	0.00437	BRL	0.00500	87	EPA 245.1/7470A

* Values outside of QC limits

FORM IIIc - DUPLICATES

TF1-MW-1005-083017

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715599-DUP1

Batch: 1715599

Lab Source ID: SC38733-04

Preparation: EPA200/SW7000 Series

Initial/Final: 20 ml / 20 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

File ID: 092117-043

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Mercury	20	BRL		BDL				EPA 245.1/7470A

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY**EPA 245.1/7470A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Instrument: Mercury4
Batch: 1715599 Laboratory ID: 1715599-BS1
Preparation: EPA200/SW7000 Series Initial/Final: 20 ml / 20 ml
Analyzed: 09/21/17 17:56 Spike ID: 1710470
File ID: 092117-038

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Mercury	0.00500	0.00447	89	82 - 119

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: Mercury4

Batch: 1715599

Laboratory ID: 1715599-MS1

Preparation: EPA200/SW7000 Series

Initial/Final: 20 ml / 20 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 17I0470

File ID: 092117-044

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Mercury	0.00500	BRL	0.00461	92	82 - 119

File ID: 092117-045

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Mercury	0.00500	0.00459	92	0.3	20	82 - 119

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Mercury	0.00013	0.00020	mg/l

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710177

Instrument: Mercury4

Calibration: 1711039

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S710177-CAL1	092117-001	09/21/17 15:58
Cal Standard	S710177-CAL2	092117-002	09/21/17 16:00
Cal Standard	S710177-CAL3	092117-003	09/21/17 16:02
Cal Standard	S710177-CAL4	092117-004	09/21/17 16:04
Cal Standard	S710177-CAL5	092117-005	09/21/17 16:06
Cal Standard	S710177-CAL6	092117-006	09/21/17 16:08
Cal Standard	S710177-CAL7	092117-007	09/21/17 16:10
Cal Standard	S710177-CAL8	092117-008	09/21/17 16:12
Initial Cal Check	S710177-ICV1	092117-009	09/21/17 16:19
Initial Cal Blank	S710177-ICB1	092117-010	09/21/17 16:21
Calibration Check	S710177-CCV1	092117-012	09/21/17 16:40
Calibration Blank	S710177-CCB1	092117-013	09/21/17 16:42
Instrument RL Check	S710177-CRL2	092117-018	09/21/17 17:09
Instrument RL Check	S710177-CRL3	092117-019	09/21/17 17:16

METALS ANALYSIS RUN LOG

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710177

Instrument: Mercury4

Calibration: 1711039

Sample Name	Lab ID	D/F	Time	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N				
Cal Standard	S710177-CAL1	1	09/21/17 15:58														X														
Cal Standard	S710177-CAL2	1	09/21/17 16:00														X														
Cal Standard	S710177-CAL3	1	09/21/17 16:02														X														
Cal Standard	S710177-CAL4	1	09/21/17 16:04														X														
Cal Standard	S710177-CAL5	1	09/21/17 16:06														X														
Cal Standard	S710177-CAL6	1	09/21/17 16:08														X														
Cal Standard	S710177-CAL7	1	09/21/17 16:10														X														
Cal Standard	S710177-CAL8	1	09/21/17 16:12														X														
Initial Cal Check	S710177-ICV1	1	09/21/17 16:19														X														
Initial Cal Blank	S710177-ICB1	1	09/21/17 16:21														X														
Calibration Check	S710177-CCV1	1	09/21/17 16:40														X														
Calibration Blank	S710177-CCB1	1	09/21/17 16:42														X														
Instrument RL Check	S710177-CRL2	1	09/21/17 17:09														X														
Instrument RL Check	S710177-CRL3	1	09/21/17 17:16														X														

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710178

Instrument: Mercury4

Calibration: 1711039

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S710178-CCV1	092117-030	09/21/17 17:39
Calibration Blank	S710178-CCB1	092117-031	09/21/17 17:41
Instrument RL Check	S710178-CRL1	092117-034	09/21/17 17:47
Calibration Check	S710178-CCV2	092117-035	09/21/17 17:49
Calibration Blank	S710178-CCB2	092117-036	09/21/17 17:51
Blank	1715599-BLK1	092117-037	09/21/17 17:54
LCS	1715599-BS1	092117-038	09/21/17 17:56
TF1-MW-1007-083017	SC38733-01	092117-039	09/21/17 17:58
TF1-MW-1007D-083017	SC38733-02	092117-040	09/21/17 18:00
TF1-GZ-112-083017	SC38733-03	092117-041	09/21/17 18:02
TF1-MW-1005-083017	SC38733-04	092117-042	09/21/17 18:04
TF1-MW-1005-083017	1715599-DUP1	092117-043	09/21/17 18:06
TF1-MW-1005-083017	1715599-MS1	092117-044	09/21/17 18:08
TF1-MW-1005-083017	1715599-MSD1	092117-045	09/21/17 18:10
TF1-MW-1005-083017	1715599-PS1	092117-046	09/21/17 18:13
Calibration Check	S710178-CCV3	092117-047	09/21/17 18:15
Calibration Blank	S710178-CCB3	092117-048	09/21/17 18:17
TF1-GZ-118-083017	SC38733-05	092117-049	09/21/17 18:19
Instrument RL Check	S710178-CRL2	092117-050	09/21/17 18:21
Calibration Check	S710178-CCV4	092117-051	09/21/17 18:23
Calibration Blank	S710178-CCB4	092117-052	09/21/17 18:25

METALS ANALYSIS RUN LOG

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710178

Instrument: Mercury4

Calibration: 1711039

Sample Name	Lab ID	D/F	Time	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N
Calibration Check	S710178-CCV1	1	09/21/17 17:39														X										
Calibration Blank	S710178-CCB1	1	09/21/17 17:41														X										
Instrument RL Check	S710178-CRL1	1	09/21/17 17:47														X										
Calibration Check	S710178-CCV2	1	09/21/17 17:49														X										
Calibration Blank	S710178-CCB2	1	09/21/17 17:51														X										
Blank	1715599-BLK1	1	09/21/17 17:54														X										
LCS	1715599-BS1	1	09/21/17 17:56														X										
TF1-MW-1007-08301	SC38733-01	1	09/21/17 17:58														X										
TF1-MW-1007D-08301	SC38733-02	1	09/21/17 18:00														X										
TF1-GZ-112-083017	SC38733-03	1	09/21/17 18:02														X										
TF1-MW-1005-08301	SC38733-04	1	09/21/17 18:04														X										
TF1-MW-1005-08301	1715599-DUP1	1	09/21/17 18:06														X										
TF1-MW-1005-08301	1715599-MS1	1	09/21/17 18:08														X										
TF1-MW-1005-08301	1715599-MSD1	1	09/21/17 18:10														X										
TF1-MW-1005-08301	1715599-PS1	1	09/21/17 18:13														X										
Calibration Check	S710178-CCV3	1	09/21/17 18:15														X										
Calibration Blank	S710178-CCB3	1	09/21/17 18:17														X										
TF1-GZ-118-083017	SC38733-05	1	09/21/17 18:19														X										
Instrument RL Check	S710178-CRL2	1	09/21/17 18:21														X										
Calibration Check	S710178-CCV4	1	09/21/17 18:23														X										
Calibration Blank	S710178-CCB4	1	09/21/17 18:25														X										

SM2320B (97, 11)

CROSS REFERENCE TABLE

SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Project Number: 112608005-WE15

Client Sample ID:

TF1-MW-1007-083017

TF1-MW-1007D-083017

TF1-GZ-112-083017

TF1-MW-1005-083017

TF1-GZ-118-083017

Lab Sample ID:

SC38733-01

SC38733-02

SC38733-03

SC38733-04

SC38733-05

FORM III - BLANKS

SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: Titration

Calibration:

Sequence:

Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715035-BLK1	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715035-BLK2	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715035-BLK3	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715035-BLK4	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SM2320B (97, 11)

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	<u>Titration</u>
Batch:	<u>1715035</u>	Laboratory ID:	<u>1715035-MS1</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>100 ml / 50 ml</u>
Source Sample Name:	<u>TF1-MW-1005-083017</u>	% Solids:	
		Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-01 1418-022</u>

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l CaCO ₃)	MS CONCENTRATION (mg/l CaCO ₃)	MS % REC. #	QC LIMITS REC.
Total Alkalinity	25.0	25.6	47.4	87	80 - 120

File ID: DTOOL Alk 2017-09-01 1418-025

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l CaCO ₃)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Total Alkalinity	25.0	45.8	81	3	20	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IIIc - DUPLICATES**TF1-MW-1005-083017****SM2320B (97, 11)**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportMatrix: AqueousLaboratory ID: 1715035-DUP1Batch: 1715035Lab Source ID: SC38733-04Preparation: General PreparationInitial/Final: 100 ml / 50 mlSource Sample Name: TF1-MW-1005-083017

% Solids:

File ID: DTOOL Alk 2017-09-01 1418-021

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l CaCO ₃)	C	DUPLICATE CONCENTRATION (mg/l CaCO ₃)	C	RPD %	Q	METHOD
Total Alkalinity	20	25.6		25.8		0.6		SM2320B (97, 11)

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY
SM2320B (97, 11)

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titration
Batch:	<u>1715035</u>	Laboratory ID:	<u>1715035-BS1</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/01/17 14:19</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-01 1418-002</u>

COMPOUND	SPIKE ADDED (mg/l CaCO ₃)	LCS CONCENTRATION (mg/l CaCO ₃)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	52.6	105	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY
SM2320B (97, 11)

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titration
Batch:	<u>1715035</u>	Laboratory ID:	<u>1715035-BS2</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/01/17 15:25</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-01 1418-012</u>

COMPOUND	SPIKE ADDED (mg/l CaCO ₃)	LCS CONCENTRATION (mg/l CaCO ₃)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	53.4	107	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY
SM2320B (97, 11)

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titration
Batch:	<u>1715035</u>	Laboratory ID:	<u>1715035-BS3</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/01/17 16:16</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-01 1418-024</u>

COMPOUND	SPIKE ADDED (mg/l CaCO ₃)	LCS CONCENTRATION (mg/l CaCO ₃)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	52.1	104	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY
SM2320B (97, 11)

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titration
Batch:	<u>1715035</u>	Laboratory ID:	<u>1715035-BS4</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/01/17 16:38</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-01 1418-028</u>

COMPOUND	SPIKE ADDED (mg/l CaCO ₃)	LCS CONCENTRATION (mg/l CaCO ₃)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	52.9	106	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Spike ID: 17H0359

Batch: 1715035

Laboratory ID: 1715035-SRM1

Preparation: General Preparation

Initial/Final: 20 ml / 50 ml

ANALYTE	TRUE (mg/l CaCO ₃)	FOUND (mg/l CaCO ₃)	SRM % REC.	QC LIMITS REC.
Total Alkalinity	124	122	98	92 - 111

* Values outside of QC limits

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Total Alkalinity	1.05	4.00	mg/l CaCO ₃

EPA 300.0

CROSS REFERENCE TABLE

EPA 300.0

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>		

Client Sample ID:

TF1-MW-1007-083017
TF1-MW-1007D-083017
TF1-GZ-112-083017
TF1-MW-1005-083017
TF1-GZ-118-083017

Lab Sample ID:

SC38733-01
SC38733-02
SC38733-03
SC38733-04
SC38733-05

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38733

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to EPA 300.0.

IV. PREPARATION

Aqueous samples were prepared according to General Preparation.

V. INSTRUMENTATION

The following equipment was used to analyze EPA 300.0:

IC3 details: Metrohm model 881 Compact Pro Ion Chromatograph

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1714974 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

3. Reference:

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1714974 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

E. Samples:

All method criteria were met with the following exceptions:

Sulfate as SO₄ in batch 1714974, sample TF1-GZ-118-083017 (SC38733-05): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

FORM III - BLANKS

EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: IC3

Calibration: 1710011

Sequence: S708848

Matrix: Drinking Water

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S708848-ICB1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.010	mg/l	U	EPA 300.0

FORM III - BLANKS**EPA 300.0**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: IC3Calibration: 1710011Sequence: S709461

Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1714974-CCB1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714974-BLK1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714974-CCB2	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714974-CCB3	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714974-CCB4	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714974-CCB5	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714974-CCB6	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714974-CCB7	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714974-CCB8	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0

FORM IIIc - DUPLICATES**TF1-MW-1005-083017****EPA 300.0**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportMatrix: AqueousLaboratory ID: 1714974-DUP2Batch: 1714974Lab Source ID: SC38733-04Preparation: General PreparationInitial/Final: 5 ml / 5 mlSource Sample Name: TF1-MW-1005-083017

% Solids:

File ID: 083117-038

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Chloride	20	8.43		8.44		0.2		EPA 300.0
Sulfate as SO4	20	21.5		21.7		0.9		EPA 300.0
Nitrate as N	20	BRL		BDL				EPA 300.0

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY**EPA 300.0**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38733
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous Instrument: IC3
Batch: 1714974 Laboratory ID: 1714974-BS1
Preparation: General Preparation Initial/Final: 5 ml / 5 ml
Analyzed: 08/31/17 15:20 Spike ID: 17H1027
File ID: 083117-024

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Chloride	20.0	20.3	102	90 - 110
Sulfate as SO ₄	20.0	20.3	101	90 - 110
Nitrate as N	2.00	2.03	101	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

EPA 300.0

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	<u>IC3</u>
Batch:	<u>1714974</u>	Laboratory ID:	<u>1714974-MS2</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>5 ml / 5 ml</u>
Source Sample Name:	<u>TF1-MW-1005-083017</u>	% Solids:	
		Spike ID:	17F0999
		File ID:	<u>083117-047</u>

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Chloride	8.00	8.43	16.6	103	90 - 110
Sulfate as SO ₄	8.00	21.5	29.5	100	90 - 110
Nitrate as N	0.800	BRL	0.799	100	90 - 110

File ID: 083117-048

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Chloride	8.00	16.7	103	0.2	20	90 - 110
Sulfate as SO ₄	8.00	29.6	101	0.2	20	90 - 110
Nitrate as N	0.800	0.804	100	0.6	20	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY**EPA 300.0****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC38733**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport**Matrix:** Aqueous**Spike ID:** 17H1028**Batch:** 1714974**Laboratory ID:** 1714974-SRM1**Preparation:** General Preparation**Initial/Final:** 5 ml / 5 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Chloride	25.0	23.5	94	90 - 110
Sulfate as SO4	25.0	24.3	97	90 - 110
Nitrate as N	2.50	2.45	98	90 - 110

* Values outside of QC limits

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Chloride	0.0994	1.00	mg/l
	0.0994	1.00	mg/l
Nitrate as N	0.007	0.010	mg/l
Sulfate as SO4	0.798	1.00	mg/l
	0.798	1.00	mg/l
Nitrate as N	0.007	0.100	mg/l

SM18-22 5210B

CROSS REFERENCE TABLE

SM18-22 5210B

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>		

Client Sample ID:

TF1-MW-1007-083017
TF1-MW-1007D-083017
TF1-GZ-112-083017
TF1-MW-1005-083017
TF1-GZ-118-083017

Lab Sample ID:

SC38733-01
SC38733-02
SC38733-03
SC38733-04
SC38733-05

FORM III - BLANKS

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: Spec 1

Calibration: 1707032

Sequence: S707958

Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715070-BLK1	Biochemical Oxygen Demand (5-day	BRL	3.00	mg/l	U	SM18-22 5210B
1715070-BLK2	Biochemical Oxygen Demand (5-day	BRL	3.00	mg/l	U	SM18-22 5210B

FORM IIIa - LCS / LCS DUPLICATE RECOVERY**SM18-22 5210B**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportMatrix: AqueousInstrument: Spec 1Batch: 1715070Laboratory ID: 1715070-BS1Preparation: General PreparationInitial/Final: 300 ml / 300 mlAnalyzed: 09/07/17 17:07Spike ID: 17H0348

File ID:

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	198	200	101	85 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Spike ID: 17I0014

Batch: 1715070

Laboratory ID: 1715070-SRM1

Preparation: General Preparation

Initial/Final: 300 ml / 300 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	64.5	49.0	76	67 - 133

* Values outside of QC limits

FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Spike ID: 17I0014

Batch: 1715070

Laboratory ID: 1715070-SRM2

Preparation: General Preparation

Initial/Final: 300 ml / 300 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	64.5	44.0	68	67 - 133

* Values outside of QC limits

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Biochemical Oxygen Demand (5-day)	2.74	3.00	mg/l

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S707958

Instrument: Spec 1

Calibration: 1707032

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Blank	1715070-BLK1		09/07/17 17:07
LCS	1715070-BS1		09/07/17 17:07
Reference	1715070-SRM1		09/07/17 17:07
TF1-MW-1007-083017	SC38733-01		09/07/17 17:07
TF1-MW-1007D-083017	SC38733-02		09/07/17 17:07
TF1-GZ-112-083017	SC38733-03		09/07/17 17:07
TF1-MW-1005-083017	SC38733-04		09/07/17 17:07
TF1-GZ-118-083017	SC38733-05		09/07/17 17:07
Reference	1715070-SRM2		09/07/17 17:07
Blank	1715070-BLK2		09/07/17 17:07

SM5310B (00, 11)

CROSS REFERENCE TABLE

SM5310B (00, 11)

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>		

Client Sample ID:

TF1-MW-1007-083017
TF1-MW-1007D-083017
TF1-GZ-112-083017
TF1-MW-1005-083017
TF1-GZ-118-083017

Lab Sample ID:

SC38733-01
SC38733-02
SC38733-03
SC38733-04
SC38733-05

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38733

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SM5310B (00, 11).

IV. PREPARATION

Aqueous samples were prepared according to General Preparation.

V. INSTRUMENTATION

The following equipment was used to analyze SM5310B (00, 11):

TOC4 details: Shimadzu TOC-L

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715538 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

3. Reference:

All method criteria were met with the following exceptions:

Total Organic Carbon in batch 1715538: The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.

D. Duplicates:

A duplicate was analyzed.

In batch 1715538 from source sample TF1-MW-1005-083017 (SC38733-04).

All method criteria were met.

E. Samples:

All method criteria were met.

FORM III - BLANKS

SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: TOC4

Calibration: 1706085

Sequence: S705799

Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S705799-ICB1	Total Organic Carbon	0.3281	1.00	mg/l	J	SM5310B (00, 11)

NA - no environmental samples
affected

FORM III - BLANKS**SM5310B (00, 11)**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: TOC4Calibration: 1706085Sequence: S708136

Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715538-CCB1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1715538-BLK1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1715538-CCB2	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1715538-CCB3	Total Organic Carbon	0.3347	1.00	mg/l	J	SM5310B (00, 11)
1715538-CCB4	Total Organic Carbon	0.3159	1.00	mg/l	J	SM5310B (00, 11)

FORM IIIc - DUPLICATES**TF1-MW-1005-083017****SM5310B (00, 11)**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38733Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportMatrix: AqueousLaboratory ID: 1715538-DUP1Batch: 1715538Lab Source ID: SC38733-04Preparation: General PreparationInitial/Final: 40 ml / 40 mlSource Sample Name: TF1-MW-1005-083017

% Solids:

File ID: 1715538-018

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Total Organic Carbon	20	0.504		0.568		12		SM5310B (00, 11)

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY
SM5310B (00, 11)

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38733</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	TOC4
Batch:	<u>1715538</u>	Laboratory ID:	<u>1715538-BS1</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>40 ml / 40 ml</u>
Analyzed:	<u>09/12/17 09:44</u>	Spike ID:	17H0827
		File ID:	<u>1715538-004</u>

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	15.0	16.9	113	85 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-MW-1005-083017

SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: TOC4

Batch: 1715538

Laboratory ID: 1715538-MS1

Preparation: General Preparation

Initial/Final: 40 ml / 40 ml

Source Sample Name: TF1-MW-1005-083017

% Solids:

Spike ID: 16E0251

File ID: 1715538-019

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	5.00	0.504	6.49	120	70 - 130

File ID: 1715538-020

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Total Organic Carbon	5.00	6.52	120	0.6	30	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Spike ID: 17H0608

Batch: 1715538

Laboratory ID: 1715538-SRM1

Preparation: General Preparation

Initial/Final: 40 ml / 40 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	14.6	17.5	121 *	88 - 112

* Values outside of QC limits

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS
SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Total Organic Carbon	0.238	1.00	mg/l

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S705799

Instrument: TOC4

Calibration: 1706085

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S705799-CAL1	0-100 062217-012	06/21/17 13:22
Cal Standard	S705799-CAL2	0-100 062217-016	06/21/17 13:48
Cal Standard	S705799-CAL3	0-100 062217-020	06/21/17 14:10
Cal Standard	S705799-CAL4	0-100 062217-024	06/21/17 14:33
Cal Standard	S705799-CAL5	0-100 062217-028	06/21/17 14:55
Cal Standard	S705799-CAL6	0-100 062217-032	06/21/17 15:18
Cal Standard	S705799-CAL7	0-100 062217-036	06/21/17 15:41
Cal Standard	S705799-CAL8	0-100 062217-040	06/21/17 16:04
Initial Cal Check	S705799-ICV1	0-100 062217-044	06/21/17 16:26
Initial Cal Blank	S705799-ICB1	0-100 062217-048	06/21/17 16:43

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38733

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708136

Instrument: TOC4

Calibration: 1706085

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1715538-CCV1	1715538-001	09/12/17 08:56
Calibration Blank	1715538-CCB1	1715538-002	09/12/17 09:12
Blank	1715538-BLK1	1715538-003	09/12/17 09:29
LCS	1715538-BS1	1715538-004	09/12/17 09:44
Reference	1715538-SRM1	1715538-005	09/12/17 10:00
Calibration Check	1715538-CCV2	1715538-015	09/12/17 12:58
Calibration Blank	1715538-CCB2	1715538-016	09/12/17 13:14
TF1-MW-1005-083017	SC38733-04	1715538-017	09/12/17 13:31
TF1-MW-1005-083017	1715538-DUP1	1715538-018	09/12/17 13:47
TF1-MW-1005-083017	1715538-MS1	1715538-019	09/12/17 14:03
TF1-MW-1005-083017	1715538-MSD1	1715538-020	09/12/17 14:16
Calibration Check	1715538-CCV3	1715538-021	09/12/17 14:41
Calibration Blank	1715538-CCB3	1715538-022	09/12/17 14:57
TF1-MW-1007-083017	SC38733-01	1715538-023	09/12/17 15:33
TF1-MW-1007D-083017	SC38733-02	1715538-024	09/12/17 15:49
TF1-GZ-112-083017	SC38733-03	1715538-025	09/12/17 16:05
TF1-GZ-118-083017	SC38733-05	1715538-026	09/12/17 16:21
Calibration Check	1715538-CCV4	1715538-027	09/12/17 16:39
Calibration Blank	1715538-CCB4	1715538-028	09/12/17 16:55

PFAS by LC/MS/MS Data

Case Narrative/Conformance Summary

PFAS by LC/MS/MS

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: THO37

PFAS Group

Fraction: PFAS by LC/MS/MS

Sample #	Client ID	Matrix		DF	Comments
		Liquid	Solid		
9192948	SC38733-01	X		1	
9192949	SC38733-02	X		1	
9192950	SC38733-03	X		1	
9192951	SC38733-04	X		1	Unspiked
9192952	SC38733-04MS	X		1	Matrix Spike
9192953	SC38733-04MSD	X		1	Matrix Spike Duplicate
9192954	SC38733-05	X		1	
9192955	SC38733-06	X		1	

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.
See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

Please note that US EPA Methods for organic compounds do not require action by the laboratory based on out-of-specification MS/MSD results.

Batch#: 17255012 (Sample number(s): 9192951-9192953, UNSPK: 9192951)

The recovery(ies) for the following analyte(s) in the MS exceeded the acceptance window indicating a positive bias: Perfluorohexanesulfonate

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: THO37

PFAS Group

Fraction: PFAS by LC/MS/MS

The recovery(ies) for the following analyte(s) in the MS and MSD exceeded the acceptance window indicating a positive bias: Perfluoro-octanesulfonate

Batch#: 17250004 (Sample number(s): 9192948-9192950, 9192954-9192955, UNSPK: 9192951)
The relative percent difference(s) for the following analyte(s) in the MS/MSD is outside the acceptance window: Perfluorodecanesulfonate
The recovery(ies) for the following analyte(s) in the MS exceeded the acceptance window indicating a positive bias: Perfluoroheptanesulfonate, Perfluoroheptanoic acid
The recovery(ies) for the following analyte(s) in the MS and MSD exceeded the acceptance window indicating a positive bias: Perfluorobutanesulfonate, Perfluorobutanoic Acid, Perfluorohexanesulfonate, Perfluorohexanoic acid, Perfluoro-octanesulfonate, Perfluorooctanoic acid, Perfluoropentanoic Acid

Surrogate

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted.

(Sample number(s): 9192948-9192955: Analysis: 10954)
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
+MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Quality Control and Calibration Summary Forms

PFAS by LC/MS/MS

Quality Control Reference List PFAS Group

CLIENT: Eurofins Spectrum Analytical
SDG: THO37

Fraction: PFAS by LC/MS/MS

Analysis	Batch Number	Sample Number	Analysis Date
PFAS in Water by LC/MS/MS	17250004	BLK250004B	09/12/2017 08:51:00
		LCS250004Q	09/12/2017 07:29:00
		9192948	09/12/2017 09:11:00
		9192949	09/12/2017 09:32:00
		9192950	09/12/2017 09:52:00
		9192954	09/12/2017 10:34:00
		9192955	09/12/2017 10:54:00
		BLK255012B	09/15/2017 22:44:00
		LCS255012Q	09/15/2017 21:22:00
PFAS in Water by LC/MS/MS	17255012	9192951 UNSPK	09/15/2017 23:04:00
		9192952 MS	09/15/2017 21:42:00
		9192953 MSD	09/15/2017 22:03:00

SDG No.: THO37

Matrix: WATER

17250004		13C2-PFDODA	13C2-PFTEDA	13C3-PFBS	13C3-PFHXS	13C4-PFBA
	Limits	28-127	26-119	26-148	34-126	33-123
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS250004	09/12/17 07:29	55	52	66	68	72
BLK250004	09/12/17 08:51	58	59	72	67	74
9192948	09/12/17 09:11	51	47	65	72	68
9192949	09/12/17 09:32	61	55	64	75	74
9192950	09/12/17 09:52	57	52	80	70	72
9192954	09/12/17 10:34	56	50	89	77	77
9192955	09/12/17 10:54	54	46	72	71	75

* Outside QC Limits

SDG No.: THO37
Matrix: WATER

17250004		13C4-PFHPA	13C5-PFHXA	13C5-PFPEA	13C6-PFDA	13C7-PFUNDA
	Limits	35-126	31-128	39-135	40-115	30-128
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS250004	09/12/17 07:29	75	78	75	73	61
BLK250004	09/12/17 08:51	71	77	75	72	66
9192948	09/12/17 09:11	76	79	67	63	57
9192949	09/12/17 09:32	81	86	66	88	78
9192950	09/12/17 09:52	75	80	82	79	67
9192954	09/12/17 10:34	82	83	92	82	68
9192955	09/12/17 10:54	75	75	78	76	63

* Outside QC Limits

SDG No.: THO37

Matrix: WATER

17250004		13C8-PFOA	13C8-PFOS	13C8-PFOSA	13C9-PFNA
	Limits	43-112	43-115	70-130	32-134
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery
LCS250004	09/12/17 07:29	83	66	33 *	67
BLK250004	09/12/17 08:51	74	59	49 *	58
9192948	09/12/17 09:11	68	61	30 *	63
9192949	09/12/17 09:32	72	70	56 *	66
9192950	09/12/17 09:52	74	70	12 *	60
9192954	09/12/17 10:34	83	78	28 *	75
9192955	09/12/17 10:54	74	69	59 *	69

* Outside QC Limits

SDG No.: THO37
Matrix: WATER

17255012		13C2-PFDODA	13C2-PFTEDA	13C3-PFBS	13C3-PFHXS	13C4-PFBA
	Limits	28-127	26-119	26-148	34-126	33-123
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS255012	09/15/17 21:22	78	77	84	82	85
9192952MS	09/15/17 21:42	80	69	104	107	88
9192953MSD	09/15/17 22:03	74	76	93	91	80
BLK255012	09/15/17 22:44	75	76	91	94	81
9192951	09/15/17 23:04	77	69	101	102	86

* Outside QC Limits

SDG No.: THO37
Matrix: WATER

17255012			13C4-PFHPA	13C5-PFHXA	13C5-PFPEA	13C6-PFDA	13C7-PFUNDA
		Limits	35-126	31-128	39-135	40-115	30-128
LAB SAMPLE ID	DATE/TIME		% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS255012	09/15/17 21:22		80	85	86	89	76
9192952MS	09/15/17 21:42		103	108	93	89	83
9192953MSD	09/15/17 22:03		82	96	81	84	74
BLK255012	09/15/17 22:44		83	96	85	87	78
9192951	09/15/17 23:04		93	112	90	92	85

* Outside QC Limits

SDG No.: THO37

Matrix: WATER

17255012			13C8-PFOA	13C8-PFOS	13C8-PFOSA	13C9-PFNA
		Limits	43-112	43-115	70-130	32-134
LAB SAMPLE ID	DATE/TIME		% Recovery	% Recovery	% Recovery	% Recovery
LCS255012	09/15/17 21:22		75	78	41 *	81
9192952MS	09/15/17 21:42		91	92	43 *	98
9192953MSD	09/15/17 22:03		79	75	11 *	79
BLK255012	09/15/17 22:44		87	86	39 *	79
9192951	09/15/17 23:04		100	91	26 *	100

* Outside QC Limits

Fraction: PFAS by LC/MS/MS

17250004 / BLK250004B						
Analyte	Analysis Date	Blank Results	Units	DL	LOD	LOQ
Perfluorooctanoic acid	09/12/17	N.D.	ng/l	0.6	2	2
Perfluorononanoic acid	09/12/17	N.D.	ng/l	0.6	2	2
Perfluorodecanoic acid	09/12/17	N.D.	ng/l	0.5	2	2
Perfluoroundecanoic acid	09/12/17	N.D.	ng/l	1	3	3
Perfluorododecanoic acid	09/12/17	N.D.	ng/l	0.5	2	2
Perfluorotridecanoic acid	09/12/17	N.D.	ng/l	0.5	2	2
Perfluorotetradecanoic acid	09/12/17	N.D.	ng/l	0.5	2	2
Perfluorohexanoic acid	09/12/17	N.D.	ng/l	0.6	2	2
Perfluoroheptanoic acid	09/12/17	N.D.	ng/l	0.5	2	2
Perfluorobutanesulfonate	09/12/17	N.D.	ng/l	0.8	3	3
Perfluorohexanesulfonate	09/12/17	N.D.	ng/l	1	3	3
Perfluoro-octanesulfonate	09/12/17	N.D.	ng/l	2	6	6
Perfluorobutanoic Acid	09/12/17	N.D.	ng/l	3	10	10
Perfluoropentanoic Acid	09/12/17	N.D.	ng/l	0.5	2	2
Perfluoroheptanesulfonate	09/12/17	N.D.	ng/l	2	6	6
Perfluorodecanesulfonate	09/12/17	N.D.	ng/l	2	6	6
PFOSA	09/12/17	N.D.	ng/l	3	9	9

17255012 / BLK255012B						
Analyte	Analysis Date	Blank Results	Units	DL	LOD	LOQ
Perfluorooctanoic acid	09/15/17	N.D.	ng/l	0.6	2	2
Perfluorononanoic acid	09/15/17	N.D.	ng/l	0.6	2	2
Perfluorodecanoic acid	09/15/17	N.D.	ng/l	0.5	2	2
Perfluoroundecanoic acid	09/15/17	N.D.	ng/l	1	3	3
Perfluorododecanoic acid	09/15/17	N.D.	ng/l	0.5	2	2
Perfluorotridecanoic acid	09/15/17	N.D.	ng/l	0.5	2	2
Perfluorotetradecanoic acid	09/15/17	N.D.	ng/l	0.5	2	2
Perfluorohexanoic acid	09/15/17	N.D.	ng/l	0.6	2	2
Perfluoroheptanoic acid	09/15/17	N.D.	ng/l	0.5	2	2
Perfluorobutanesulfonate	09/15/17	N.D.	ng/l	0.8	3	3
Perfluorohexanesulfonate	09/15/17	N.D.	ng/l	1	3	3
Perfluoro-octanesulfonate	09/15/17	N.D.	ng/l	2	6	6
Perfluorobutanoic Acid	09/15/17	N.D.	ng/l	3	10	10
Perfluoropentanoic Acid	09/15/17	N.D.	ng/l	0.5	2	2
Perfluoroheptanesulfonate	09/15/17	N.D.	ng/l	2	6	6
Perfluorodecanesulfonate	09/15/17	N.D.	ng/l	2	6	6
PFOSA	09/15/17	N.D.	ng/l	3	9	9

PFAS Group

Fraction: PFAS by LC/MS/MS

UNSPK: 9192951 MS: 9192952 MSD: 9192953 Analyte	Batch: 17250004 (Sample number(s): 9192948-9192950, 9192954-9192955)								
	Spike Added ng/l MS/MSD	Unspiked Conc ng/l	MS Conc ng/l	MSD Conc ng/l	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits
Perfluorooctanoic acid	13.6 / 13.57	7.95	30.32	26.96	164 *	140 *	70-130	12	30
Perfluorononanoic acid	13.6 / 13.57	N.D.	14.85	12.9	109	95	70-130	14	30
Perfluorodecanoic acid	13.6 / 13.57	N.D.	14.9	12.61	110	93	70-130	17	30
Perfluoroundecanoic acid	13.6 / 13.57	N.D.	14.72	13.28	108	98	70-130	10	30
Perfluorododecanoic acid	13.6 / 13.57	N.D.	13.19	12.03	97	89	70-130	9	30
Perfluorotridecanoic acid	13.6 / 13.57	N.D.	13.84	12.84	102	95	70-130	7	30
Perfluorotetradecanoic acid	13.6 / 13.57	N.D.	11.82	11.51	87	85	70-130	3	30
Perfluorohexanoic acid	13.6 / 13.57	20.28	52.45	50.38	237 *	222 *	70-130	4	30
Perfluoroheptanoic acid	13.6 / 13.57	3.24	21.14	19.74	132 *	122	70-130	7	30
Perfluorobutanesulfonate	12.03 / 12	8.74	29.93	29.74	176 *	175 *	70-130	1	30
Perfluorohexanesulfonate	12.86 / 12.83	80.74	188.7	170.3	840 (2)	698 (2)	70-130	10	30
Perfluoro-octanesulfonate	13 / 12.97	254.24	595.66	494.46	2626 (2)	1852 (2)	70-130	19	30
Perfluorobutanoic Acid	13.6 / 13.57	5.80	25.83	23.59	147 *	131 *	70-130	9	30
Perfluoropentanoic Acid	13.6 / 13.57	7.40	27.74	28.5	150 *	155 *	70-130	3	30
Perfluoroheptanesulfonate	12.49 / 12.46	4.03	24.28	19.47	162 *	124	70-130	22	30
Perfluorodecanesulfonate	13.1 / 13.07	N.D.	13.46	9.28	103	71	70-130	37 *	30
PFOSA	13.6 / 13.57	N.D.	13.7	13.22	101	97	70-130	4	30

UNSPK: 9192951 MS: 9192952 MSD: 9192953 Analyte	Batch: 17255012 (Sample number(s): 9192951-9192953)								
	Spike Added ng/l MS/MSD	Unspiked Conc ng/l	MS Conc ng/l	MSD Conc ng/l	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits
Perfluorooctanoic acid	13.57 / 13.59	14.81	30.69	30.68	117	117	70-130	0	30
Perfluorononanoic acid	13.57 / 13.59	N.D.	13.11	14.53	97	107	70-130	10	30
Perfluorodecanoic acid	13.57 / 13.59	N.D.	10.6	11.15	78	82	70-130	5	30
Perfluoroundecanoic acid	13.57 / 13.59	N.D.	12.96	12.8	95	94	70-130	1	30
Perfluorododecanoic acid	13.57 / 13.59	N.D.	11.12	12.85	82	95	70-130	14	30
Perfluorotridecanoic acid	13.57 / 13.59	N.D.	11.61	11.39	86	84	70-130	2	30
Perfluorotetradecanoic acid	13.57 / 13.59	N.D.	11.32	12.01	83	88	70-130	6	30
Perfluorohexanoic acid	13.57 / 13.59	37.05	54.4	47.97	128	80	70-130	13	30
Perfluoroheptanoic acid	13.57 / 13.59	6.69	18.11	19.61	84	95	70-130	8	30
Perfluorobutanesulfonate	12 / 12.02	18.39	29.07	30.05	89	97	70-130	3	30
Perfluorohexanesulfonate	12.83 / 12.85	148.91	167.19	163.29	143 (2)	112 (2)	70-130	2	30
Perfluoro-octanesulfonate	12.97 / 13	490.54	541.12	534.83	390 (2)	341 (2)	70-130	1	30
Perfluorobutanoic Acid	13.57 / 13.59	11.27	23.81	23.1	92	87	70-130	3	30
Perfluoropentanoic Acid	13.57 / 13.59	15.78	26.91	26.82	82	81	70-130	0	30

Comments:

(2) The unspiked sample result is greater than four times the spike added.

* = Out of Specification

Results are being reported on an as received basis.

PFAS Group

Fraction: PFAS by LC/MS/MS

UNSPK: 9192951 MS: 9192952 MSD: 9192953 Analyte	Batch: 17255012 (Sample number(s): 9192951-9192953)								
	Spike Added ng/l MS/MSD	Unspiked Conc ng/l	MS Conc ng/l	MSD Conc ng/l	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits
Perfluoroheptanesulfonate	12.46 / 12.48	7.59	18.67	18.87	89	90	70-130	1	30
Perfluorodecanesulfonate	13.06 / 13.09	N.D.	11.61	11.74	89	90	70-130	1	30
PFOSA	13.57 / 13.59	N.D.	14.55	12.	107	88	70-130	19	30

Comments:

(2) The unspiked sample result is greater than four times the spike added.

* = Out of Specification

Results are being reported on an as received basis.

SDG: THO37
Matrix: LIQUID

PFAS Group
Fraction: PFAS by LC/MS/MS

LCS: LCS250004Q		Batch: 17250004 (Sample number(s): 9192948-9192950, 9192954-9192955)						
Analyte	Spike Added ng/l	LCS Conc ng/l	LCSD Conc ng/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Perfluorooctanoic acid	13.6	11.16	NA	82	NA	70-130	NA	NA
Perfluorononanoic acid	13.6	14.84	NA	109	NA	70-130	NA	NA
Perfluorodecanoic acid	13.6	11.98	NA	88	NA	70-130	NA	NA
Perfluoroundecanoic acid	13.6	13.1	NA	96	NA	70-130	NA	NA
Perfluorododecanoic acid	13.6	12.13	NA	89	NA	70-130	NA	NA
Perfluorotridecanoic acid	13.6	13.65	NA	100	NA	70-130	NA	NA
Perfluorotetradecanoic acid	13.6	11.75	NA	86	NA	70-130	NA	NA
Perfluorohexanoic acid	13.6	12.39	NA	91	NA	70-130	NA	NA
Perfluoroheptanoic acid	13.6	13.53	NA	100	NA	70-130	NA	NA
Perfluorobutanesulfonate	12.03	12.04	NA	100	NA	70-130	NA	NA
Perfluorohexanesulfonate	12.86	12.79	NA	99	NA	70-130	NA	NA
Perfluoro-octanesulfonate	13	13.2	NA	102	NA	70-130	NA	NA
Perfluorobutanoic Acid	13.6	12.63	NA	93	NA	70-130	NA	NA
Perfluoropentanoic Acid	13.6	12.25	NA	90	NA	70-130	NA	NA
Perfluoroheptanesulfonate	12.49	13.02	NA	104	NA	70-130	NA	NA
Perfluorodecanesulfonate	13.1	10.88	NA	83	NA	70-130	NA	NA
PFOA	13.6	10.67	NA	78	NA	70-130	NA	NA

LCS: LCS255012Q		Batch: 17255012 (Sample number(s): 9192951-9192953)						
Analyte	Spike Added ng/l	LCS Conc ng/l	LCSD Conc ng/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Perfluorooctanoic acid	13.6	14.09	NA	104	NA	70-130	NA	NA
Perfluorononanoic acid	13.6	12.12	NA	89	NA	70-130	NA	NA
Perfluorodecanoic acid	13.6	11.11	NA	82	NA	70-130	NA	NA
Perfluoroundecanoic acid	13.6	13.18	NA	97	NA	70-130	NA	NA
Perfluorododecanoic acid	13.6	12.18	NA	90	NA	70-130	NA	NA
Perfluorotridecanoic acid	13.6	12.49	NA	92	NA	70-130	NA	NA
Perfluorotetradecanoic acid	13.6	11.54	NA	85	NA	70-130	NA	NA
Perfluorohexanoic acid	13.6	13.21	NA	97	NA	70-130	NA	NA
Perfluoroheptanoic acid	13.6	12.58	NA	93	NA	70-130	NA	NA
Perfluorobutanesulfonate	12.03	10.63	NA	88	NA	70-130	NA	NA
Perfluorohexanesulfonate	12.86	10.25	NA	80	NA	70-130	NA	NA
Perfluoro-octanesulfonate	13	10.9	NA	84	NA	70-130	NA	NA
Perfluorobutanoic Acid	13.6	12.13	NA	89	NA	70-130	NA	NA
Perfluoropentanoic Acid	13.6	11.42	NA	84	NA	70-130	NA	NA
Perfluoroheptanesulfonate	12.49	10.81	NA	87	NA	70-130	NA	NA
Perfluorodecanesulfonate	13.1	10.72	NA	82	NA	70-130	NA	NA
PFOA	13.6	13.43	NA	99	NA	70-130	NA	NA

SDG No.: THO37

Matrix: WATER

17250004		13C2-PFDA	13C2-PFOA	13C3-PFBA	13C4-PFOS
		Area	Area	Area	Area
Average ICAL Response		437252	325930	620082	189354
UPPER LIMIT		655878	488895	930123	284031
LOWER LIMIT		218626	162965	310041	94677
LAB SAMPLE ID	DATE ANALYZED				
LCS250004	09/12/17 07:29	355715	286795	547662	158685
BLK250004	09/12/17 08:51	314535	279889	531793	173442
9192948	09/12/17 09:11	323164	259988	541037	160197
9192949	09/12/17 09:32	273024	258114	636938	151901
9192950	09/12/17 09:52	282629	262251	522476	153951
9192954	09/12/17 10:34	296754	269499	473421	149162
9192955	09/12/17 10:54	281696	260844	473443	147317

AREA: Upper limit: 150% of the internal standard area.
Lower Limit: 50% of the internal standard area.

* Outside QC Limits

SDG No.: THO37

Matrix: WATER

17255012		13C2-PFDA	13C2-PFOA	13C3-PFBA	13C4-PFOS
		Area	Area	Area	Area
Average ICAL Response		339765	262013	469829	148338
UPPER LIMIT		509648	393020	704744	222507
LOWER LIMIT		169883	131007	234915	74169
LAB SAMPLE ID	DATE ANALYZED				
LCS255012	09/15/17 21:22	313512	296839	505357	165893
9192952MS	09/15/17 21:42	294737	237626	460355	130089
9192953MSD	09/15/17 22:03	272234	246532	461824	130311
BLK255012	09/15/17 22:44	261504	248240	487582	149972
9192951	09/15/17 23:04	252283	229396	445388	124253

AREA: Upper limit: 150% of the internal standard area.
Lower Limit: 50% of the internal standard area.

* Outside QC Limits

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	SC38733	SITE 00007	SITE 00007	TF1-MW-1007	Monitoring well	389314.39	183422.87	N6247016D9008	WE15	TETRA TECH, INC.	TF1-MW-1007-083017	Ground water	Normal (Regular)	30-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38733	SITE 00007	SITE 00007	TF1-GZ-118	Monitoring well	388820.93	184216.61	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GZ-118-083017	Ground water	Normal (Regular)	30-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38733	SITE 00007	SITE 00007	TF1-GZ-112	Monitoring well	388813.39	184783.33	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GZ-112-083017	Ground water	Normal (Regular)	30-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38733	SITE 00007	SITE 00007	TF1-MW-1005	Monitoring well	388029.63	184133.45	N6247016D9008	WE15	TETRA TECH, INC.	TF1-MW-1005-083017	Ground water	Normal (Regular)	30-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38733	SITE 00007	SITE 00007	TF1-MW-1007D	Monitoring well	389308.68	183433.04	N6247016D9008	WE15	TETRA TECH, INC.	TF1-MW-1007D-083017	Ground water	Normal (Regular)	30-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38733							N6247016D9008	WE15	TETRA TECH, INC.	TF1-FRB-083017	Water for QC samples	Field Reagent Blank	30-Aug-17	537	Perfluoroalkyl Compounds