



**Groundwater Sample Results,  
Electronic Data Deliverable, Data Validation Report,  
and the Sample Location Report, SDG 1800803**

*Naval Weapons Industrial Reserve Plant Bethpage  
Bethpage, New York*

August 2019

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","375-22-4","PFBA","2.27","ng/L","J","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","2706-90-3","PFPeA","5.21","ng/L","","","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","375-73-5","PFBS","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","307-24-4","PFHxA","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","375-85-9","PFHpA","1.94","ng/L","J","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","355-46-4","PFHxS","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","27619-97-2","6:2 FTS","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","335-67-1","PFOA","2.85","ng/L","J","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","375-92-8","PFHpS","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","1763-23-1","PFOS","1.58","ng/L","J","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","375-95-1","PFNA","1.84","ng/L","J","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","335-76-2","PFDA","1.47","ng/L","J","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","39108-34-4","8:2 FTS","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","754-91-6","PFOSA","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","2355-31-9","MeFOSAA","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","335-77-3","PFDS","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","2058-94-8","PFUnA","1.44","ng/L","J","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","2991-50-6","EtFOSAA","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
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"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","72629-94-8","PFTTrDA","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","376-06-7","PFTeDA","2.41","ng/L","UU","1.32","LOD","","TRG","","","3.85","LOQ","YES","-99","","","0.259","0.001","2.41",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C3-PFBA","13C3-PFBA","88.2","%R","","-99","NA","","IS","88.2","","-99","NA","YES","100","","","0.259","0.001","-99",""  
"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C3-PFPeA","13C3-PFPeA","93.4","%R","","-99","NA","","IS","93.4","","-99","NA","YES","100","","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C3-PFBS","13C3-PFBS","94.8","%R","",-99,"NA","","IS","94.8","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C2-PFHxA","13C2-PFHxA","90.1","%R","",-99,"NA","","IS","90.1","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C4-PFHpA","13C4-PFHpA","91.8","%R","",-99,"NA","","IS","91.8","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","18O2-PFHxS","18O2-PFHxS","88.9","%R","",-99,"NA","","IS","88.9","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C2-PFOA","13C2-PFOA","82.6","%R","",-99,"NA","","IS","82.6","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C8-PFOS","13C8-PFOS","83.8","%R","",-99,"NA","","IS","83.8","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C5-PFNA","13C5-PFNA","66.7","%R","",-99,"NA","","IS","66.7","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C2-PFDA","13C2-PFDA","70.6","%R","",-99,"NA","","IS","70.6","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C8-PFOA","13C8-PFOA","47.5","%R","H","-99,"NA","","IS","47.5","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","d3-MeFOSAA","d3-MeFOSAA","80.4","%R","",-99,"NA","","IS","80.4","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C2-PFUnA","13C2-PFUnA","59.4","%R","",-99,"NA","","IS","59.4","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","d5-EtFOSAA","d5-EtFOSAA","78.6","%R","",-99,"NA","","IS","78.6","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C2-PFDoA","13C2-PFDoA","65.6","%R","",-99,"NA","","IS","65.6","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW308S-20180426","Modified EPA 537","Initial","1800803-01","Vista","13C2-PFTeDA","13C2-PFTeDA","69.6","%R","",-99,"NA","","IS","69.6","",-99,"NA","YES","100","","0.259","0.001","-99",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","375-22-4","PFBA","9.25","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","2706-90-3","PFPeA","7.67","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","375-73-5","PFBS","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","307-24-4","PFHxA","7.39","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","375-85-9","PFHpA","4.42","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","355-46-4","PFHxS","1.46","ng/L","J","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","27619-97-2","6:2 FTS","9.10","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","335-67-1","PFOA","21.8","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","375-92-8","PFHpS","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","1763-23-1","PFOS","7.47","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","375-95-1","PFNA","1.84","ng/L","J","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","335-76-2","PFDA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","39108-34-4","8:2 FTS","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","754-91-6","PFOSA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","2355-31-9","MeFOSAA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","335-77-3","PFDS","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","2058-94-8","PFUnA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","2991-50-6","EtFOSAA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","307-55-1","PFDaA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","72629-94-8","PFTDA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","376-06-7","PFTeDA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C3-PFBA","13C3-PFBA","77.2","%R","","-99","NA","","IS","77.2","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C3-PFPeA","13C3-PFPeA","75.7","%R","","-99","NA","","IS","75.7","","-99","NA","YES","100","","0.257","0.001","-99",  
"

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C3-PFBS","13C3-PFBS","92.1","%R","","-99","NA","","IS","92.1","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C2-PFHxA","13C2-PFHxA","81.1","%R","","-99","NA","","IS","81.1","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C4-PFHpA","13C4-PFHpA","70.7","%R","","-99","NA","","IS","70.7","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","18O2-PFHxS","18O2-PFHxS","71.7","%R","","-99","NA","","IS","71.7","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C2-PFOA","13C2-PFOA","60.1","%R","","-99","NA","","IS","60.1","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C8-PFOS","13C8-PFOS","75.4","%R","","-99","NA","","IS","75.4","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C5-PFNA","13C5-PFNA","77.7","%R","","-99","NA","","IS","77.7","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C2-PFDA","13C2-PFDA","62.0","%R","","-99","NA","","IS","62.0","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C8-PFOA","13C8-PFOA","38.9","%R","H","-99","NA","","IS","38.9","","-99","NA","YES","100","","0.257","0.001","-99",  
"

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","d3-MeFOSAA","d3-MeFOSAA","64.3","%R","","-99","NA","","IS","64.3","","-99","NA","YES","100","","0.257","0.001","-99",  
"

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C2-PFUnA","13C2-PFUnA","54.4","%R","","-99","NA","","IS","54.4","","-99","NA","YES","100","","0.257","0.001","-99",  
"

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","d5-EtFOSAA","d5-EtFOSAA","68.8","%R","","-99","NA","","IS","68.8","","-99","NA","YES","100","","0.257","0.001","-99",  
"

"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C2-PFDaA","13C2-PFDaA","58.6","%R","","-99","NA","","IS","58.6","","-99","NA","YES","100","","0.257","0.001","-99",  
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"BPS1-TT-MW305D-20180427","Modified EPA 537","Initial","1800803-02","Vista","13C2-PFTeDA","13C2-

PFTeDA", "52.4", "%R", "", "-99", "NA", "", "IS", "52.4", "", "-99", "NA", "YES", "100", "", "0.257", "0.001", "-99", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "375-22-4", "PFBA", "13.6", "ng/L", "", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "2706-90-3", "PFPeA", "19.3", "ng/L", "", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "375-73-5", "PFBS", "4.69", "ng/L", "", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "307-24-4", "PFHxA", "54.8", "ng/L", "", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "375-85-9", "PFHpA", "54.7", "ng/L", "", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "355-46-4", "PFHxS", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "27619-97-2", "6:2 FTS", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "335-67-1", "PFOA", "22.3", "ng/L", "", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "375-92-8", "PFHpS", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "1763-23-1", "PFOS", "3.49", "ng/L", "J", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "375-95-1", "PFNA", "16.5", "ng/L", "", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "335-76-2", "PFDA", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "39108-34-4", "8:2 FTS", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "754-91-6", "PFOSA", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "2355-31-9", "MeFOSAA", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "335-77-3", "PFDS", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "2058-94-8", "PFUnA", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "2991-50-6", "EtFOSAA", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "307-55-1", "PFDoA", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "72629-94-8", "PFTrDA", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "376-06-7", "PFTeDA", "2.41", "ng/L", "UU", "1.32", "LOD", "", "TRG", "", "", "3.86", "LOQ", "YES", "-99", "", "0.259", "0.001", "2.41", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "13C3-PFBA", "13C3-PFBA", "84.9", "%R", "", "-99", "NA", "", "IS", "84.9", "", "-99", "NA", "YES", "100", "", "0.259", "0.001", "-99", ""  
"BPS1-TT-MW305S-20180427", "Modified EPA 537", "Initial", "1800803-03", "Vista", "13C3-PFPeA", "13C3-PFPeA", "79.8", "%R", "", "-99", "NA", "", "IS", "79.8", "", "-99", "NA", "YES", "100", "", "0.259", "0.001", "-99", ""

"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C3-PFBS","13C3-PFBS","90.6","%R","",-99,"NA","","IS","90.6","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C2-PFHxA","13C2-PFHxA","79.8","%R","",-99,"NA","","IS","79.8","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C4-PFHpA","13C4-PFHpA","84.6","%R","",-99,"NA","","IS","84.6","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","18O2-PFHxS","18O2-PFHxS","82.0","%R","",-99,"NA","","IS","82.0","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C2-PFOA","13C2-PFOA","79.7","%R","",-99,"NA","","IS","79.7","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C8-PFOS","13C8-PFOS","84.7","%R","",-99,"NA","","IS","84.7","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C5-PFNA","13C5-PFNA","70.6","%R","",-99,"NA","","IS","70.6","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C2-PFDA","13C2-PFDA","64.8","%R","",-99,"NA","","IS","64.8","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C8-PFOA","13C8-PFOA","44.1","%R","H","-99,"NA","","IS","44.1","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","d3-MeFOSAA","d3-MeFOSAA","77.3","%R","",-99,"NA","","IS","77.3","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C2-PFUnA","13C2-PFUnA","64.4","%R","",-99,"NA","","IS","64.4","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","d5-EtFOSAA","d5-EtFOSAA","76.1","%R","",-99,"NA","","IS","76.1","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C2-PFDoA","13C2-PFDoA","56.9","%R","",-99,"NA","","IS","56.9","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BPS1-TT-MW305S-20180427","Modified EPA 537","Initial","1800803-03","Vista","13C2-PFTeDA","13C2-PFTeDA","59.2","%R","",-99,"NA","","IS","59.2","",-99,"NA","YES","100","","0.259","0.001","-99",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","375-22-4","PFBA","14.8","ng/L","","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","2706-90-3","PFPeA","16.9","ng/L","","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","375-73-5","PFBS","1.68","ng/L","J","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","307-24-4","PFHxA","17.0","ng/L","","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","375-85-9","PFHpA","14.8","ng/L","","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","355-46-4","PFHxS","5.78","ng/L","","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","27619-97-2","6:2 FTS","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","335-67-1","PFOA","22.7","ng/L","","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","375-92-8","PFHpS","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","1763-23-1","PFOS","29.6","ng/L","","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","375-95-1","PFNA","6.05","ng/L","","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","335-76-2","PFDA","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","39108-34-4","8:2 FTS","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","0.256","0.001","2.44",""

"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","754-91-6","PFOSA","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","","0.256","0.001","2.44",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","2355-31-9","MeFOSAA","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","","0.256","0.001","2.44",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","335-77-3","PFDS","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","","0.256","0.001","2.44",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","2058-94-8","PFUnA","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","","0.256","0.001","2.44",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","2991-50-6","EtFOSAA","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","","0.256","0.001","2.44",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","307-55-1","PFDaA","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","","0.256","0.001","2.44",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","72629-94-8","PFTTrDA","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","","0.256","0.001","2.44",  
"  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","376-06-7","PFTeDA","2.44","ng/L","UU","1.34","LOD","","TRG","","","3.91","LOQ","YES","-99","","","0.256","0.001","2.44",  
"  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C3-PFBA","13C3-PFBA","89.0","%R","","-99","NA","","IS","89.0","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C3-PFPeA","13C3-PFPeA","84.9","%R","","-99","NA","","IS","84.9","","-99","NA","YES","100","","","0.256","0.001","-99",  
"  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C3-PFBS","13C3-PFBS","93.0","%R","","-99","NA","","IS","93.0","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C2-PFHxA","13C2-PFHxA","84.9","%R","","-99","NA","","IS","84.9","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C4-PFHpA","13C4-PFHpA","85.6","%R","","-99","NA","","IS","85.6","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","18O2-PFHxS","18O2-PFHxS","94.4","%R","","-99","NA","","IS","94.4","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C2-PFOA","13C2-PFOA","79.2","%R","","-99","NA","","IS","79.2","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C8-PFOS","13C8-PFOS","79.1","%R","","-99","NA","","IS","79.1","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C5-PFNA","13C5-PFNA","74.2","%R","","-99","NA","","IS","74.2","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C2-PFDA","13C2-PFDA","73.9","%R","","-99","NA","","IS","73.9","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C8-PFOA","13C8-PFOA","38.9","%R","H","-99","NA","","IS","38.9","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","d3-MeFOSAA","d3-MeFOSAA","68.9","%R","","-99","NA","","IS","68.9","","-99","NA","YES","100","","","0.256","0.001","-99",  
"  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C2-PFUnA","13C2-PFUnA","62.3","%R","","-99","NA","","IS","62.3","","-99","NA","YES","100","","","0.256","0.001","-99",  
"  
"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","d5-EtFOSAA","d5-EtFOSAA","73.7","%R","","-99","NA","","IS","73.7","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C2-PFDaA","13C2-PFDaA","58.1","%R","","-99","NA","","IS","58.1","","-99","NA","YES","100","","","0.256","0.001","-99",  
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"BP-HN-MW24IR-20180427","Modified EPA 537","Initial","1800803-04","Vista","13C2-PFTeDA","13C2-

PFTeDA", "50.9", "%R", "", "-99", "NA", "", "IS", "50.9", "", "-99", "NA", "YES", "100", "", "0.256", "0.001", "-99", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "375-22-  
4", "PFBA", "17.4", "ng/L", "", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "2706-90-  
3", "PFPeA", "15.6", "ng/L", "", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "375-73-  
5", "PFBS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "307-24-  
4", "PFHxA", "13.9", "ng/L", "", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "375-85-  
9", "PFHpA", "8.54", "ng/L", "", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "355-46-  
4", "PFHxS", "2.50", "ng/L", "J", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
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FTS", "1.64", "ng/L", "J", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "335-67-  
1", "PFOA", "16.2", "ng/L", "", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "375-92-  
8", "PFHpS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "1763-23-  
1", "PFOS", "5.12", "ng/L", "", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "375-95-  
1", "PFNA", "1.84", "ng/L", "J", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "335-76-  
2", "PFDA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "39108-34-4", "8:2  
FTS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "754-91-  
6", "PFOSA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "2355-31-  
9", "MeFOSAA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.4  
5", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "335-77-  
3", "PFDS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "2058-94-  
8", "PFUnA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "2991-50-  
6", "EtFOSAA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45  
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"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "307-55-  
1", "PFDoA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "72629-94-  
8", "PFTTrDA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "376-06-  
7", "PFTeDA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "13C3-PFBA", "13C3-  
PFBA", "91.6", "%R", "", "-99", "NA", "", "IS", "91.6", "", "-99", "NA", "YES", "100", "", "0.255", "0.001", "-99", ""  
"BPS1-TT-MW305I-20180427", "Modified EPA 537", "Initial", "1800803-05", "Vista", "13C3-PFPeA", "13C3-  
PFPeA", "92.4", "%R", "", "-99", "NA", "", "IS", "92.4", "", "-99", "NA", "YES", "100", "", "0.255", "0.001", "-99", ""

"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C3-PFBS","13C3-PFBS","133","%R","","-99","NA","","IS","133","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C2-PFHxA","13C2-PFHxA","88.2","%R","","-99","NA","","IS","88.2","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C4-PFHpA","13C4-PFHpA","89.9","%R","","-99","NA","","IS","89.9","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","18O2-PFHxS","18O2-PFHxS","83.6","%R","","-99","NA","","IS","83.6","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C2-PFOA","13C2-PFOA","81.8","%R","","-99","NA","","IS","81.8","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C8-PFOS","13C8-PFOS","78.0","%R","","-99","NA","","IS","78.0","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C5-PFNA","13C5-PFNA","93.7","%R","","-99","NA","","IS","93.7","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C2-PFDA","13C2-PFDA","61.3","%R","","-99","NA","","IS","61.3","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C8-PFOA","13C8-PFOA","45.8","%R","H","-99","NA","","IS","45.8","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","d3-MeFOSAA","d3-MeFOSAA","99.2","%R","","-99","NA","","IS","99.2","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C2-PFUnA","13C2-PFUnA","68.5","%R","","-99","NA","","IS","68.5","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","d5-EtFOSAA","d5-EtFOSAA","95.9","%R","","-99","NA","","IS","95.9","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C2-PFDoA","13C2-PFDoA","72.7","%R","","-99","NA","","IS","72.7","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BPS1-TT-MW305I-20180427","Modified EPA 537","Initial","1800803-05","Vista","13C2-PFTeDA","13C2-PFTeDA","86.0","%R","","-99","NA","","IS","86.0","","-99","NA","YES","100","","0.255","0.001","-99",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","375-22-4","PFBA","17.3","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","2706-90-3","PFPeA","38.3","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","375-73-5","PFBS","2.18","ng/L","J","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","307-24-4","PFHxA","30.0","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","375-85-9","PFHpA","18.1","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","355-46-4","PFHxS","2.94","ng/L","J","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","27619-97-2","6:2 FTS","14.4","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","335-67-1","PFOA","20.7","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","375-92-8","PFHpS","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","1763-23-1","PFOS","15.6","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","375-95-1","PFNA","9.66","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","335-76-2","PFDA","1.56","ng/L","J","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","39108-34-4","8:2 FTS","6.67","ng/L","","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","0.257","0.001","2.43",""

"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","754-91-6","PFOSA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","","0.257","0.001","2.43",  
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"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","2355-31-9","MeFOSAA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","","0.257","0.001","2.43",  
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"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","335-77-3","PFDS","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","","0.257","0.001","2.43",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","2058-94-8","PFUnA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","","0.257","0.001","2.43",  
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"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","2991-50-6","EtFOSAA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","","0.257","0.001","2.43",  
"  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","307-55-1","PFDaA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","","0.257","0.001","2.43",  
"  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","72629-94-8","PFTDA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","","0.257","0.001","2.43",  
"  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","376-06-7","PFTeDA","2.43","ng/L","UU","1.33","LOD","","TRG","","","3.89","LOQ","YES","-99","","","0.257","0.001","2.43",  
"  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C3-PFBA","13C3-PFBA","88.1","%R","","-99","NA","","IS","88.1","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C3-PFPeA","13C3-PFPeA","89.0","%R","","-99","NA","","IS","89.0","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C3-PFBS","13C3-PFBS","112","%R","","-99","NA","","IS","112","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C2-PFHxA","13C2-PFHxA","86.1","%R","","-99","NA","","IS","86.1","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C4-PFHpA","13C4-PFHpA","88.9","%R","","-99","NA","","IS","88.9","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","18O2-PFHxS","18O2-PFHxS","90.4","%R","","-99","NA","","IS","90.4","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C2-PFOA","13C2-PFOA","79.9","%R","","-99","NA","","IS","79.9","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C8-PFOS","13C8-PFOS","84.8","%R","","-99","NA","","IS","84.8","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C5-PFNA","13C5-PFNA","67.2","%R","","-99","NA","","IS","67.2","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C2-PFDA","13C2-PFDA","76.9","%R","","-99","NA","","IS","76.9","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C8-PFOA","13C8-PFOA","47.9","%R","H","-99","NA","","IS","47.9","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","d3-MeFOSAA","d3-MeFOSAA","85.5","%R","","-99","NA","","IS","85.5","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C2-PFUnA","13C2-PFUnA","55.6","%R","","-99","NA","","IS","55.6","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","d5-EtFOSAA","d5-EtFOSAA","89.3","%R","","-99","NA","","IS","89.3","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C2-PFDaA","13C2-PFDaA","66.3","%R","","-99","NA","","IS","66.3","","-99","NA","YES","100","","","0.257","0.001","-99",  
"BP-MH-SW4001-South-20180427","Modified EPA 537","Initial","1800803-06","Vista","13C2-PFTeDA","13C2-

PFTeDA", "63.6", "%R", "", "-99", "NA", "", "IS", "63.6", "", "-99", "NA", "YES", "100", "", "0.257", "0.001", "-99", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "375-22-4", "PFBA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "2706-90-3", "PFPeA", "5.08", "ng/L", "", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "375-73-5", "PFBS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "307-24-4", "PFHxA", "5.96", "ng/L", "", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "375-85-9", "PFHpA", "3.84", "ng/L", "J", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "355-46-4", "PFHxS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "27619-97-2", "6:2 FTS", "2.44", "ng/L", "J", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "335-67-1", "PFOA", "4.21", "ng/L", "", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "375-92-8", "PFHpS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "1763-23-1", "PFOS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "375-95-1", "PFNA", "2.33", "ng/L", "J", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "335-76-2", "PFDA", "1.41", "ng/L", "J", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "39108-34-4", "8:2 FTS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "754-91-6", "PFOSA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "2355-31-9", "MeFOSAA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "335-77-3", "PFDS", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "2058-94-8", "PFUnA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "2991-50-6", "EtFOSAA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "307-55-1", "PFDoA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "72629-94-8", "PFTTrDA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "376-06-7", "PFTeDA", "2.45", "ng/L", "UU", "1.34", "LOD", "", "TRG", "", "", "3.92", "LOQ", "YES", "-99", "", "0.255", "0.001", "2.45", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "13C3-PFBA", "13C3-PFBA", "86.8", "%R", "", "-99", "NA", "", "IS", "86.8", "", "-99", "NA", "YES", "100", "", "0.255", "0.001", "-99", ""  
"BP-TT-SW4002-20180427", "Modified EPA 537", "Initial", "1800803-07", "Vista", "13C3-PFPeA", "13C3-PFPeA", "83.9", "%R", "", "-99", "NA", "", "IS", "83.9", "", "-99", "NA", "YES", "100", "", "0.255", "0.001", "-99", ""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C3-PFBS","13C3-PFBS","97.4","%R","",-99,"NA","",,"IS","97.4","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C2-PFHxA","13C2-PFHxA","85.3","%R","",-99,"NA","",,"IS","85.3","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C4-PFHpA","13C4-PFHpA","83.3","%R","",-99,"NA","",,"IS","83.3","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","18O2-PFHxS","18O2-PFHxS","90.9","%R","",-99,"NA","",,"IS","90.9","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C2-PFOA","13C2-PFOA","84.9","%R","",-99,"NA","",,"IS","84.9","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C8-PFOS","13C8-PFOS","78.2","%R","",-99,"NA","",,"IS","78.2","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C5-PFNA","13C5-PFNA","72.3","%R","",-99,"NA","",,"IS","72.3","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C2-PFDA","13C2-PFDA","63.7","%R","",-99,"NA","",,"IS","63.7","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C8-PFOA","13C8-PFOA","37.7","%R","H","-99,"NA","",,"IS","37.7","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","d3-MeFOSAA","d3-MeFOSAA","60.4","%R","",-99,"NA","",,"IS","60.4","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C2-PFUnA","13C2-PFUnA","60.3","%R","",-99,"NA","",,"IS","60.3","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","d5-EtFOSAA","d5-EtFOSAA","63.5","%R","",-99,"NA","",,"IS","63.5","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C2-PFDoA","13C2-PFDoA","64.0","%R","",-99,"NA","",,"IS","64.0","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4002-20180427","Modified EPA 537","Initial","1800803-07","Vista","13C2-PFTeDA","13C2-PFTeDA","65.6","%R","",-99,"NA","",,"IS","65.6","",-99,"NA","YES","100","",,"0.255","0.001","-99",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","375-22-4","PFBA","2.46","ng/L","UU","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","2706-90-3","PFPeA","2.46","ng/L","UU","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","375-73-5","PFBS","2.46","ng/L","UU","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","307-24-4","PFHxA","2.46","ng/L","UU","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","375-85-9","PFHpA","1.59","ng/L","J","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","355-46-4","PFHxS","2.46","ng/L","UU","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","27619-97-2","6:2 FTS","2.46","ng/L","UU","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","335-67-1","PFOA","3.17","ng/L","J","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","375-92-8","PFHpS","2.46","ng/L","UU","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","1763-23-1","PFOS","1.37","ng/L","J","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","375-95-1","PFNA","2.08","ng/L","J","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","335-76-2","PFDA","2.08","ng/L","J","1.35","LOD","",,"TRG","",,"",,"3.94","LOQ","YES","-99","",,"0.254","0.001","2.46",""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","39108-34-4","8:2

FTS", "2.46", "ng/L", "UU", "1.35", "LOD", "", "TRG", "", "", "3.94", "LOQ", "YES", "-99", "", "0.254", "0.001", "2.46", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "754-91-6", "PFOSA", "2.46", "ng/L", "UU", "1.35", "LOD", "", "TRG", "", "", "3.94", "LOQ", "YES", "-99", "", "0.254", "0.001", "2.46", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "2355-31-9", "MeFOSAA", "2.46", "ng/L", "UU", "1.35", "LOD", "", "TRG", "", "", "3.94", "LOQ", "YES", "-99", "", "0.254", "0.001", "2.46", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "335-77-3", "PFDS", "2.46", "ng/L", "UU", "1.35", "LOD", "", "TRG", "", "", "3.94", "LOQ", "YES", "-99", "", "0.254", "0.001", "2.46", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "2058-94-8", "PFUnA", "2.46", "ng/L", "UU", "1.35", "LOD", "", "TRG", "", "", "3.94", "LOQ", "YES", "-99", "", "0.254", "0.001", "2.46", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "2991-50-6", "EtFOSAA", "2.46", "ng/L", "UU", "1.35", "LOD", "", "TRG", "", "", "3.94", "LOQ", "YES", "-99", "", "0.254", "0.001", "2.46", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "307-55-1", "PFDoA", "2.46", "ng/L", "UU", "1.35", "LOD", "", "TRG", "", "", "3.94", "LOQ", "YES", "-99", "", "0.254", "0.001", "2.46", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "72629-94-8", "PFTTrDA", "2.46", "ng/L", "UU", "1.35", "LOD", "", "TRG", "", "", "3.94", "LOQ", "YES", "-99", "", "0.254", "0.001", "2.46", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "376-06-7", "PFTeDA", "2.46", "ng/L", "UU", "1.35", "LOD", "", "TRG", "", "", "3.94", "LOQ", "YES", "-99", "", "0.254", "0.001", "2.46", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C3-PFBA", "13C3-PFBA", "87.4", "%R", "", "-99", "NA", "", "IS", "87.4", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C3-PFPeA", "13C3-PFPeA", "83.2", "%R", "", "-99", "NA", "", "IS", "83.2", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C3-PFBS", "13C3-PFBS", "104", "%R", "", "-99", "NA", "", "IS", "104", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C2-PFHxA", "13C2-PFHxA", "92.9", "%R", "", "-99", "NA", "", "IS", "92.9", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C4-PFHpA", "13C4-PFHpA", "87.8", "%R", "", "-99", "NA", "", "IS", "87.8", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "18O2-PFHxS", "18O2-PFHxS", "87.5", "%R", "", "-99", "NA", "", "IS", "87.5", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C2-PFOA", "13C2-PFOA", "86.4", "%R", "", "-99", "NA", "", "IS", "86.4", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C8-PFOS", "13C8-PFOS", "85.4", "%R", "", "-99", "NA", "", "IS", "85.4", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C5-PFNA", "13C5-PFNA", "72.6", "%R", "", "-99", "NA", "", "IS", "72.6", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C2-PFDA", "13C2-PFDA", "62.1", "%R", "", "-99", "NA", "", "IS", "62.1", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C8-PFOA", "13C8-PFOA", "51.1", "%R", "", "-99", "NA", "", "IS", "51.1", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "d3-MeFOSAA", "d3-MeFOSAA", "74.8", "%R", "", "-99", "NA", "", "IS", "74.8", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C2-PFUnA", "13C2-PFUnA", "60.4", "%R", "", "-99", "NA", "", "IS", "60.4", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "d5-EtFOSAA", "d5-EtFOSAA", "67.1", "%R", "", "-99", "NA", "", "IS", "67.1", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""  
"BP-TT-SW4004-20180427", "Modified EPA 537", "Initial", "1800803-08", "Vista", "13C2-PFDoA", "13C2-PFDoA", "70.0", "%R", "", "-99", "NA", "", "IS", "70.0", "", "-99", "NA", "YES", "100", "", "0.254", "0.001", "-99", ""

"BP-TT-SW4004-20180427","Modified EPA 537","Initial","1800803-08","Vista","13C2-PFTeDA","13C2-PFTeDA","62.5","%R","","-99","NA","","IS","62.5","","-99","NA","YES","100","","0.254","0.001","-99",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","375-22-4","PFBA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","2706-90-3","PFPeA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","375-73-5","PFBS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","307-24-4","PFHxA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","375-85-9","PFHpA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","355-46-4","PFHxS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","27619-97-2","6:2 FTS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","335-67-1","PFOA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","375-92-8","PFHpS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","1763-23-1","PFOS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","375-95-1","PFNA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","335-76-2","PFDA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","39108-34-4","8:2 FTS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","754-91-6","PFOSA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","2355-31-9","MeFOSAA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","335-77-3","PFDS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","2058-94-8","PFUnA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","2991-50-6","EtFOSAA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","307-55-1","PFDoA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","72629-94-8","PFTTrDA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","376-06-7","PFTeDA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""  
"  
"B8E0055-BLK1","Modified EPA 537","Initial","B8E0055-BLK1","Vista","13C3-PFBA","13C3-

PFBA", "89.3", "%R", "", "-99", "NA", "", "IS", "89.3", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C3-PFPeA", "13C3-  
PFPeA", "93.0", "%R", "", "-99", "NA", "", "IS", "93.0", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C3-PFBS", "13C3-  
PFBS", "94.2", "%R", "", "-99", "NA", "", "IS", "94.2", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C2-PFHxA", "13C2-  
PFHxA", "89.6", "%R", "", "-99", "NA", "", "IS", "89.6", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C4-PFHpA", "13C4-  
PFHpA", "90.8", "%R", "", "-99", "NA", "", "IS", "90.8", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "18O2-PFHxS", "18O2-  
PFHxS", "91.5", "%R", "", "-99", "NA", "", "IS", "91.5", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C2-PFOA", "13C2-  
PFOA", "75.5", "%R", "", "-99", "NA", "", "IS", "75.5", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C8-PFOS", "13C8-  
PFOS", "79.5", "%R", "", "-99", "NA", "", "IS", "79.5", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C5-PFNA", "13C5-  
PFNA", "83.1", "%R", "", "-99", "NA", "", "IS", "83.1", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C2-PFDA", "13C2-  
PFDA", "68.8", "%R", "", "-99", "NA", "", "IS", "68.8", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C8-PFOA", "13C8-  
PFOA", "32.7", "%R", "H", "-99", "NA", "", "IS", "32.7", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "d3-MeFOSAA", "d3-  
MeFOSAA", "60.4", "%R", "", "-99", "NA", "", "IS", "60.4", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C2-PFUnA", "13C2-  
PFUnA", "59.1", "%R", "", "-99", "NA", "", "IS", "59.1", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "d5-EtFOSAA", "d5-  
EtFOSAA", "60.6", "%R", "", "-99", "NA", "", "IS", "60.6", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C2-PFDoA", "13C2-  
PFDoA", "64.4", "%R", "", "-99", "NA", "", "IS", "64.4", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BLK1", "Modified EPA 537", "Initial", "B8E0055-BLK1", "Vista", "13C2-PFTeDA", "13C2-  
PFTeDA", "56.7", "%R", "", "-99", "NA", "", "IS", "56.7", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "375-22-  
4", "PFBA", "43.5", "ng/L", "", "1.37", "LOD", "", "TRG", "109", "", "4.00", "LOQ", "YES", "40.0", "", "0.250", "0.001", "2.50", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "2706-90-  
3", "PFPeA", "43.1", "ng/L", "", "1.37", "LOD", "", "TRG", "108", "", "4.00", "LOQ", "YES", "40.0", "", "0.250", "0.001", "2.50", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "375-73-  
5", "PFBS", "42.2", "ng/L", "", "1.37", "LOD", "", "TRG", "106", "", "4.00", "LOQ", "YES", "40.0", "", "0.250", "0.001", "2.50", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "307-24-  
4", "PFHxA", "43.4", "ng/L", "", "1.37", "LOD", "", "TRG", "109", "", "4.00", "LOQ", "YES", "40.0", "", "0.250", "0.001", "2.50", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "375-85-  
9", "PFHpA", "42.6", "ng/L", "", "1.37", "LOD", "", "TRG", "106", "", "4.00", "LOQ", "YES", "40.0", "", "0.250", "0.001", "2.50", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "355-46-  
4", "PFHxS", "39.1", "ng/L", "", "1.37", "LOD", "", "TRG", "97.6", "", "4.00", "LOQ", "YES", "40.0", "", "0.250", "0.001", "2.50", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "27619-97-2", "6:2  
FTS", "46.2", "ng/L", "", "1.37", "LOD", "", "TRG", "115", "", "4.00", "LOQ", "YES", "40.0", "", "0.250", "0.001", "2.50", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "335-67-  
1", "PFOA", "41.8", "ng/L", "", "1.37", "LOD", "", "TRG", "105", "", "4.00", "LOQ", "YES", "40.0", "", "0.250", "0.001", "2.50", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "375-92-  
8", "PFHpS", "46.7", "ng/L", "", "1.37", "LOD", "", "TRG", "117", "", "4.00", "LOQ", "YES", "40.0", "", "0.250", "0.001", "2.50", ""

"  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","1763-23-1","PFOS","42.7","ng/L","", "1.37","LOD","", "TRG","107","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","375-95-1","PFNA","46.5","ng/L","", "1.37","LOD","", "TRG","116","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","335-76-2","PFDA","37.4","ng/L","", "1.37","LOD","", "TRG","93.6","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","39108-34-4","8:2 FTS","40.8","ng/L","", "1.37","LOD","", "TRG","102","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","754-91-6","PFOSA","48.3","ng/L","", "1.37","LOD","", "TRG","121","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","2355-31-9","MeFOSAA","43.6","ng/L","", "1.37","LOD","", "TRG","109","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","335-77-3","PFDS","67.1","ng/L","H","1.37","LOD","", "TRG","168","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","2058-94-8","PFUnA","40.5","ng/L","", "1.37","LOD","", "TRG","101","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","2991-50-6","EtFOSAA","48.5","ng/L","", "1.37","LOD","", "TRG","121","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","307-55-1","PFDoA","47.3","ng/L","", "1.37","LOD","", "TRG","118","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","72629-94-8","PFTTrDA","43.1","ng/L","", "1.37","LOD","", "TRG","108","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","376-06-7","PFTeDA","42.2","ng/L","", "1.37","LOD","", "TRG","106","", "4.00","LOQ","YES","40.0","", "0.250","0.001","2.50",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","13C3-PFBA","13C3-PFBA","92.6","%R","", "-99","NA","", "IS","92.6","", "-99","NA","YES","100","", "0.250","0.001","-99",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","13C3-PFPeA","13C3-PFPeA","97.6","%R","", "-99","NA","", "IS","97.6","", "-99","NA","YES","100","", "0.250","0.001","-99",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","13C3-PFBS","13C3-PFBS","100","%R","", "-99","NA","", "IS","100","", "-99","NA","YES","100","", "0.250","0.001","-99",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","13C2-PFHxA","13C2-PFHxA","95.9","%R","", "-99","NA","", "IS","95.9","", "-99","NA","YES","100","", "0.250","0.001","-99",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","13C4-PFHpA","13C4-PFHpA","94.1","%R","", "-99","NA","", "IS","94.1","", "-99","NA","YES","100","", "0.250","0.001","-99",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","18O2-PFHxS","18O2-PFHxS","89.5","%R","", "-99","NA","", "IS","89.5","", "-99","NA","YES","100","", "0.250","0.001","-99",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","13C2-PFOA","13C2-PFOA","88.0","%R","", "-99","NA","", "IS","88.0","", "-99","NA","YES","100","", "0.250","0.001","-99",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","13C8-PFOS","13C8-PFOS","94.5","%R","", "-99","NA","", "IS","94.5","", "-99","NA","YES","100","", "0.250","0.001","-99",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","13C5-PFNA","13C5-PFNA","84.6","%R","", "-99","NA","", "IS","84.6","", "-99","NA","YES","100","", "0.250","0.001","-99",""  
"B8E0055-BS1","Modified EPA 537","Initial","B8E0055-BS1","Vista","13C2-PFDA","13C2-

PFDA", "72.1", "%R", "", "-99", "NA", "", "IS", "72.1", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "13C8-PFOA", "13C8-  
PFOA", "30.4", "%R", "H", "-99", "NA", "", "IS", "30.4", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "d3-MeFOSAA", "d3-  
MeFOSAA", "83.0", "%R", "", "-99", "NA", "", "IS", "83.0", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "13C2-PFUnA", "13C2-  
PFUnA", "62.7", "%R", "", "-99", "NA", "", "IS", "62.7", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "d5-EtFOSAA", "d5-  
EtFOSAA", "82.0", "%R", "", "-99", "NA", "", "IS", "82.0", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"B8E0055-BS1", "Modified EPA 537", "Initial", "B8E0055-BS1", "Vista", "13C2-PFDoA", "13C2-  
PFDoA", "63.3", "%R", "", "-99", "NA", "", "IS", "63.3", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
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PFTeDA", "85.6", "%R", "", "-99", "NA", "", "IS", "85.6", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""  
"112G08005-WE09", "112G08005-WE09", "BPS1-TT-MW308S-20180426", "04/26/2018 16:25", "AQ", "1800803-  
01", "NM", "", "1.50", "Modified EPA 537", "METHOD", "Initial", "05/09/2018 08:00", "05/26/2018  
08:32", "Vista", "COA", "WET", "NA", "1", "NA", "NA", "01/01/1900  
00:00", "100", "B8E0055", "B8E0055", "NA", "S8E0066", "1800803", "04/28/2018 09:48", "01/01/1900 00:00", ""  
"112G08005-WE09", "112G08005-WE09", "BPS1-TT-MW305D-20180427", "04/27/2018 09:25", "AQ", "1800803-  
02", "NM", "", "1.50", "Modified EPA 537", "METHOD", "Initial", "05/09/2018 08:00", "05/26/2018  
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03", "NM", "", "1.50", "Modified EPA 537", "METHOD", "Initial", "05/09/2018 08:00", "05/26/2018  
08:55", "Vista", "COA", "WET", "NA", "1", "NA", "NA", "01/01/1900  
00:00", "100", "B8E0055", "B8E0055", "NA", "S8E0066", "1800803", "04/28/2018 09:48", "01/01/1900 00:00", ""  
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09:52", "Vista", "COA", "WET", "NA", "1", "NA", "NA", "01/01/1900  
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06", "NM", "", "1.50", "Modified EPA 537", "METHOD", "Initial", "05/09/2018 08:00", "05/26/2018  
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08", "NM", "", "1.50", "Modified EPA 537", "METHOD", "Initial", "05/09/2018 08:00", "05/26/2018  
10:26", "Vista", "COA", "WET", "NA", "1", "NA", "NA", "01/01/1900  
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BLK1", "MB", "", "-99", "Modified EPA 537", "METHOD", "Initial", "05/09/2018 08:00", "05/26/2018  
08:21", "Vista", "COA", "WET", "NA", "1", "NA", "NA", "01/01/1900  
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BS1", "LCS", "", "-99", "Modified EPA 537", "METHOD", "Initial", "05/09/2018 08:00", "05/26/2018  
18:53", "Vista", "COA", "WET", "NA", "1", "NA", "NA", "01/01/1900  
00:00", "100", "B8E0055", "B8E0055", "NA", "S8E0066", "1800803", "01/01/1900 00:00", "01/01/1900 00:00", ""



## DATA VALIDATION REPORT

<b>Project:</b>	Naval Weapons Industrial Reserve Plant Bethpage
<b>Laboratory:</b>	Vista Analytical Laboratory
<b>Sample Delivery Groups:</b>	1800802, 1800803, 1800822, 1800824, 1800859, and 1800860
<b>Analyses/Method:</b>	Per- and Polyfluoroalkyl Substances (PFAS) via Modified U.S. EPA Method 537 compliant with Department of Defense Quality System's Manual Version 5.1 Table B-15
<b>Validation Level:</b>	Stage 4 Validation Electronic and Manual
<b>Project Number:</b>	0888812477.SA.DV

### SUMMARY

This report summarizes data review findings for the PFAS groundwater sampling event (samples listed below) collected by Tetra Tech at Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage Site between on 24 April and 1 May 2018 in accordance with the following Uniform Federal Policy (UFP) Sampling and Analysis Plan (SAP):

- *Sampling and Analysis Plan for Per- and Polyfluoroalkyl Substances Investigation, Facility Wide, Naval Weapons Industrial Reserve Plant, Bethpage, New York. (Tetra Tech February 2018).*

Sample Summary Per- and Polyfluoroalkyl Substances via Modified U.S. EPA Method 537				
Sample Delivery Group	Lab Identification	Sample Identification	Sample Date	Matrix/Sample Type
1800802	1800802-01	BP-TT-AOC22-MW10-20180424	4/24/2018	Groundwater
1800802	1800802-02	BP-HN-MW24S-20180424	4/24/2018	Groundwater
1800802	1800802-03	BPS1-TT-MW309S-20180425	4/25/2018	Groundwater
1800802	1800802-04	BPS1-TT-MW313S-20180425	4/25/2018	Groundwater
1800802	1800802-05	BPS1-TT-MW301S-20180425	4/25/2018	Groundwater
1800802	1800802-06	BP-DUP02-20180425	4/25/2018	Duplicate of BPS1-TT-MW309S-20180425
1800802	1800802-07	BP-EB01-20180425	4/25/2018	Equipment Blank
1800802	1800802-08	BPS1-TT-MW307I-20180426	4/26/2018	Groundwater
1800802	1800802-09	BPS1-TT-MW306S-20180426	4/26/2018	Groundwater
1800802	1800802-10	BPS1-TT-MW307D-20180426	4/26/2018	Groundwater
1800802	1800802-11	BPS1-TT-MW306I-20180426	4/26/2018	Groundwater
1800802	1800802-12	BPS1-TT-MW307S-20180426	4/26/2018	Groundwater
1800802	1800802-13	BPS1-TT-MW306D-20180426	4/26/2018	Groundwater
1800802	1800802-14	BPS1-TT-MW308I-20180426	4/26/2018	Groundwater
1800802	1800802-15	BPS1-TT-MW309I-20180426	4/26/2018	Groundwater
1800802	1800802-16	BPS1-DUP03-20180426	4/26/2018	Duplicate of BPS1-TT-MW307D-20180426
1800803	1800803-01	BPS1-TT-MW308S-20180426	4/26/2018	Groundwater
1800803	1800803-02	BPS1-TT-MW305D-20180427	4/27/2018	Groundwater
1800803	1800803-03	BPS1-TT-MW305S-20180427	4/27/2018	Groundwater

<b>Sample Summary</b> <b>Per- and Polyfluoroalkyl Substances via Modified U.S. EPA Method 537</b>				
<b>Sample Delivery Group</b>	<b>Lab Identification</b>	<b>Sample Identification</b>	<b>Sample Date</b>	<b>Matrix/Sample Type</b>
1800803	1800803-04	BP-HN-MW24IR-20180427	4/27/2018	Groundwater
1800803	1800803-05	BPS1-TT-MW305I-20180427	4/27/2018	Groundwater
1800803	1800803-06	BP-MH-SW4001-SOUTH-20180427	4/27/2018	Surface water
1800803	1800803-07	BP-TT-SW4002-20180427	4/27/2018	Surface water
1800803	1800803-08	BP-TT-SW4004-20180427	4/27/2018	Surface water
1800822	1800822-01	BPS1-TT-MW306D-FRB-20180426	4/26/2018	Groundwater
1800822	1800822-02	BPS1-TT-MW309S-FRB-20180425	4/25/2018	Groundwater
1800822	1800822-03	BP-TT-AOC22-MW10-FRB-20180424	4/24/2018	Groundwater
1800822	1800822-04	BP-TT-SW4004-FRB-20180427	4/27/2018	Surface water
1800824	1800824-01	BPS1-TT-MW309D-20180429	4/29/2018	Groundwater
1800824	1800824-02	BPS1-TT-MW301D-20180429	4/29/2018	Groundwater
1800824	1800824-03	BP-EB02-20180429	4/29/2018	Equipment Blank
1800824	1800824-04	BPS1-TT-MW311S-20180429	4/29/2018	Groundwater
1800824	1800824-05	BPS1-TT-MW312S-20180429	4/29/2018	Groundwater
1800824	1800824-06	BP-DUP05-20180429	4/29/2018	Duplicate of BPS1-TT-MW311S-20180429
1800824	1800824-07	BPS1-TT-MW310S-20180430	4/30/2018	Groundwater
1800824	1800824-08	BPS1-TT-MW301I-20180430	4/30/2018	Groundwater
1800824	1800824-09	BPS1-TT-MW314S-20180430	4/30/2018	Groundwater
1800824	1800824-10	BPS1-TT-MW314I-20180430	4/30/2018	Groundwater
1800824	1800824-11	BP-EB03-20180430	4/30/2018	Equipment Blank
1800824	1800824-12	BPS1-TT-MW308D-20180430	4/30/2018	Groundwater
1800859	1800859-01	BP-MH-SW4001-SOUTH-20180501	5/1/2018	Surface water
1800859	1800859-02	BP-TT-SW4002-20180501	5/1/2018	Surface water
1800859	1800859-03	BP-DUP06-20180501	5/1/2018	Duplicate of BP-MH-SW4001-SOUTH-20180501
1800859	1800859-04	BP-EB04-20180501	5/1/2018	Equipment Blank
1800860	1800860-01	BP-MH-SW4001-SOUTH-FRB-20180501	5/1/2018	Surface water

Data validation activities were conducted using the measurement performance criteria identified in the project UFP SAP and the following guidance documents: *General Data Validation Guidelines* (DoD 2018), *National Functional Guidelines for Superfund Organic Methods Data Review* (U.S. EPA January 2017), *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (U.S. EPA January 2009), *Department of Defense (DoD) Quality Systems Manual for Environmental Laboratories*, Version 5.1 (DoD February 2017). In the absence of method-specific information, laboratory quality control (QC) limits, project-specific requirements, and/or professional judgment were used as appropriate.

## REVIEW ELEMENTS

The data were evaluated based on the following parameters:

✓	Data completeness (chain-of-custody)/sample integrity
✓	Holding times and sample preservation
✓	Gas chromatography/mass spectrometer performance checks
✓	Ion transitions
✓	Initial calibration/initial calibration verification/continuing calibration verification
✓	Instrument sensitivity check
✓	Laboratory blanks/equipment blanks
X	Extracted and injection internal standard analytes recoveries
X	Matrix spike and/or matrix spike duplicate result
✓	Laboratory control sample /laboratory control sample duplicate result
✓	Field duplicate
✓	Sample results/reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. Acceptable data parameters for which all criteria were met, no qualification was performed, and/or non-conformance or other issues that were noted during validation, but did not result in qualification of data are not discussed further. The symbol (X) indicates that a QC non-conformance resulted in the qualification of data. Any QC non-conformance that resulted in the qualification of data is discussed below.

## RESULTS

### Extracted and Injection Internal Standard Analytes Recoveries

Internal standards are pure chemicals, structurally similar to the method analytes, which are added to each sample prior to extraction (extracted internal standard) or just prior to analysis (injection internal standard). The internal standard percent recoveries (%Rs) are used to measure the relative response of PFAS and extraction effectiveness. Extracted and injection internal standard %R non-conformances are summarized in Attachment A in Tables A-1 and A-2; respectively.

Data qualification on the basis of internal standard was as follows:

**Internal Standard Non-Conformance Chart:**

Criteria	Action		
	Detected	Non-Detected	Reason Code
$50\% \leq \%R \leq 150\%$	No qualification	No qualification	None
$\%R \geq 150\%$	J-	UJ	I10
$20\% \leq \%R \leq 50\%$	J+	No qualification	I9
$\%R \leq 20\%$	J+	X	I9

**Notes:**

ICAL = Initial calibration  
 %R = Percent recovery  
 UJ = Undetected and estimated  
 I9 = Internal standard infraction, high bias  
 X = Serious deficiency project team to decide data use

CCV = Continuing calibration verification  
 J+ = Positive value estimated, high bias  
 J- = Undetected value estimated, low bias  
 I10 = Internal standard infraction, low bias

**Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results**

MS/MSDs are generated to provide information about the effect of each sample matrix on the sample preparation and the measurement methodology. MS/MSD %Rs assess the effect of the sample matrix on the accuracy of the analytical results and %Rs above the control limit could indicate a potential high result bias while %Rs below QC limits could indicate a potential low result bias. The relative percent differences (RPDs) between the MS and MSD results are evaluated to assess sample precision. The MS/MSD %Rs and RPDs were reviewed for conformance with the QC acceptance criteria. Non-conformances are summarized in Attachment A in Table A-3. Data qualification to the analytes associated with the specific MS/MSD non-conformances were as follows:

**MS/MSD Non-conformances Chart:**

Criteria	Action		
	Detected	Non-detected	Reason Code
$\%R \geq 130\%$	J+	No qualification	M2
$\geq 70\% \%R \leq 130\%$	No qualification	No qualification	None
$20\% \leq \%R \leq 70$	J-	UJ	M3
$\%R \leq 20\%$	J-	X	M3
$RPD \leq 30\%$	No qualification	No qualification	None
$RPD \geq 30\%$	J	UJ	M4

**Notes:**

%R = Percent recovery  
 J+ = Positive value estimated, biased high  
 J- = Undetected value estimated, low bias  
 M2 = Percent recovery infraction, high bias  
 M4 = Duplicate precision infraction

RPD = Relative percent difference  
 UJ = Undetected and estimated  
 X = Serious deficiency project team to decide data use  
 M3 = Percent recovery infraction, low bias  
 X = Serious deficiency; project team to decide data use

### **Qualification Actions**

The data were reviewed independently from the laboratory to assess data quality. All analytes detected at concentrations less than the limit of quantitation but greater than the method detection limit were qualified by the laboratory as estimated (J). This "J" qualifier was retained during data validation. Any sample that was analyzed at a dilution because of high concentrations of target or non-target analytes was checked to confirm that the results and/or sample-specific limit of quantitation and limit of detections were adjusted accordingly by the laboratory.

No results were rejected; therefore, analytical completeness was calculated to be 100 percent. Data not qualified during data review are considered usable by the project. The remaining results qualified as estimated may be high or low, but the data are usable for their intended purpose, according to U.S. EPA and Department of Defense guidelines. Attachment B provides a summary of all qualified results during this data review.

### **ATTACHMENTS**

Attachment A: Non-Conformance Summary Tables

Attachment B: Qualified Results Summary after Data Review

**Attachment A**  
**Non-Conformance Summary Tables**

Table A-1 Extracted Internal Standard Recovery Non-Conformance							
SDG	Lab ID	Sample ID	Isotope	Associated Analyte	%R	Limits	Flags
1800824	1800824-10	BPS1-TT-MW314I-20180430	13C3-PFBS	Perfluorobutanesulfonic acid (PFBS)	153	50-150	J-
1800824	1800824-12	BPS1-TT-MW308D-20180430	13C3-PFBS	Perfluorobutanesulfonic acid (PFBS)	161	50-150	J-

**Notes:**

Results that are undetected with potential high bias were not qualified and are not summarized.

SDG = Sample delivery group

ID = Identification

%R = Percent recovery

J- = Result was qualified estimated and may be biased low.

Table A-2 Injected Internal Standard Recovery Non-Conformance							
SDG	Lab ID	Sample ID	Isotope	Associated Analyte	%R	Limits	Flags
1800802	1800802-05	PS1-TT-MW301S-20180425	13C8-PFOA	Perfluorooctanoic acid (PFOA)	49.9	50-150	J+
1800803	1800803-05	BPS1-TT-MW305I-20180427	13C9-PFNA	Perfluorononanoic acid (PFNA)	38.9	50-150	J+
1800803	1800803-05	BPS1-TT-MW305I-20180427	13C8-PFOA	Perfluorooctanoic acid (PFOA)	47.3	50-150	J+
1800803	1800803-06	BP-MH-SW400I-South-20180427	13C6-PFDA	Perfluorodecanoic acid (PFDA)	39.9	50-150	J+
1800803	1800803-06	BP-MH-SW400I-South-20180427	13C9-PFNA	Perfluorononanoic acid (PFNA)	45.1	50-150	J+
1800803	1800803-06	BP-MH-SW400I-South-20180427	13C8-PFOA	Perfluorooctanoic acid (PFOA)	44.2	50-150	J+
1800803	1800803-07	BP-TT-SW4002-20180427	13C8-PFOA	Perfluorooctanoic acid (PFOA)	47.8	50-150	J+
1800824	1800824-05	BPS1-TT-MW312S-20180429	13C4-PFBA	Perfluorobutanoic Acid (PFBA)	48.2	50-150	J+
1800824	1800824-05	BPS1-TT-MW312S-20180429	13C5-PFHxA	Perfluorohexanoic acid (PFHXA)	49	50-150	J+
1800824	1800824-05	BPS1-TT-MW312S-20180429	13C8-PFOA	Perfluorooctanoic acid (PFOA)	47.8	50-150	J+
1800824	1800824-06	BP-DUP05-20180429	3C8-PFOA	Perfluorooctanoic acid (PFOA)	49.3	50-150	J+
1800824	1800824-07	BPS1-TT-MW310S-20180430	13C4-PFBA	Perfluorobutanoic Acid (PFBA)	49	50-150	J+
1800824	1800824-07	BPS1-TT-MW310S-20180430	13C5-PFHxA	Perfluorohexanoic acid (PFHXA)	47.7	50-150	J+
1800824	1800824-07	BPS1-TT-MW310S-20180430	13C9-PFNA	Perfluorononanoic acid (PFNA)	49.9	50-150	J+
1800824	1800824-07	BPS1-TT-MW310S-20180430	13C8-PFOA	Perfluorooctanoic acid (PFOA)	45	50-150	J+
1800824	1800824-08	BPS1-TT-MW301I-20180430	13C4-PFBA	Perfluorobutanoic Acid (PFBA)	45	50-150	J+
1800824	1800824-08	BPS1-TT-MW301I-20180430	13C6-PFDA	Perfluorodecanoic acid (PFDA)	44.1	50-150	J+
1800824	1800824-08	BPS1-TT-MW301I-20180430	13C5-PFHxA	Perfluorohexanoic acid (PFHXA)	47.7	50-150	J+
1800824	1800824-08	BPS1-TT-MW301I-20180430	13C9-PFNA	Perfluorononanoic acid (PFNA)	42.9	50-150	J+
1800824	1800824-08	BPS1-TT-MW301I-20180430	13C8-PFOA	Perfluorooctanoic acid (PFOA)	46.4	50-150	J+
1800824	1800824-09	BPS1-TT-MW314S-20180430	13C4-PFBA	Perfluorobutanoic Acid (PFBA)	49.8	50-150	J+

**Table A-2  
Injected Internal Standard Recovery Non-Conformance**

SDG	Lab ID	Sample ID	Isotope	Associated Analyte	%R	Limits	Flags
1800824	1800824-09	BPS1-TT-MW314S-20180430	13C5-PFHxA	Perfluorohexanoic acid (PFHXA)	48.9	50-150	J+
1800824	1800824-10	BPS1-TT-MW314I-20180430	13C4-PFBA	Perfluorobutanoic Acid (PFBA)	35.4	50-150	J+
1800824	1800824-10	BPS1-TT-MW314I-20180430	13C6-PFDA	Perfluorodecanoic acid (PFDA)	37	50-150	J+
1800824	1800824-10	BPS1-TT-MW314I-20180430	13C5-PFHxA	Perfluorohexanoic acid (PFHXA)	39.8	50-150	J+
1800824	1800824-10	BPS1-TT-MW314I-20180430	13C9-PFNA	Perfluorononanoic acid (PFNA)	44.2	50-150	J+
1800824	1800824-10	BPS1-TT-MW314I-20180430	13C8-PFOA	Perfluorooctanoic acid (PFOA)	38.7	50-150	J+
1800824	1800824-10	BPS1-TT-MW314I-20180430	13C7-PFUdA	Perfluoroundecanoic acid (PFUNA)	35	50-150	J+
1800824	1800824-12	BPS1-TT-MW308D-20180430	13C4-PFBA	Perfluorobutanoic Acid (PFBA)	19.9	50-150	J+
1800824	1800824-12	BPS1-TT-MW308D-20180430	13C6-PFDA	Perfluorodecanoic acid (PFDA)	38.9	50-150	J+
1800824	1800824-12	BPS1-TT-MW308D-20180430	13C9-PFNA	Perfluorononanoic acid (PFNA)	42.7	50-150	J+
1800824	1800824-12	BPS1-TT-MW308D-20180430	13C8-PFOA	Perfluorooctanoic acid (PFOA)	41.6	50-150	J+

**Notes:**

Results that are undetected with potential high bias were not qualified and are not summarized.

- SDG = Sample delivery group
- ID = Identification
- %R = Percent recovery
- J+ = Result was qualified estimated and may be biased high.

**Table A-3  
Matrix Spike/Matrix Spike Duplicate Non-Conformance**

SDG	Lab ID	Spiked Sample	Analyte	MS %R	MSD %R	%R Limits	RPD	RPD Limits	Flags
1800802	1800802-02	BP-HN-MW24S-20180424	Perfluorooctanoic acid (PFOA)	74.8	115	70-130	42.4*	<30	J
1800824	1800824-05	BPS1-TT-MW312S-20180429	Perfluorooctane sulfonic acid (PFOS)	119	131*	70-130	9.6	<30	J+
1800824	1800824-05	BPS1-TT-MW312S-20180429	Perfluorohexanoic acid (PFHXA)	110	139*	70-130	23.3	<30	J+
1800824	1800824-05	BPS1-TT-MW312S-20180429	Perfluorodecanoic acid (PFDA)	87.8	120	70-130	31*	<30	J

**Notes:**

Results that are undetected with potential high bias were not qualified and are not summarized.

- SDG = Sample delivery group
- ID = Identification
- %R = Percent recovery
- RPD = Relative percent difference
- \* = Outside control limits
- J+ = Result was qualified estimated and may be biased high.
- J = Result was qualified as estimated due to potential poor precision.

**Attachment B**  
**Qualified Results Summary after Data Review**

**Table B-1  
Qualified Results Summary after Data Review**

SDG	Lab ID	Sample ID	Sample Date	CAS No	Analyte	Result (ng/L)	Lab Qualifier	Final Qualifier	Reason Code
1800802	1800802-02	BP-HN-MW24S-20180424	4/24/2018	335-67-1	Perfluorooctanoic acid (PFOA)	96.2		J	M4
1800802	1800802-05	BPS1-TT-MW301S-20180425	4/25/2018	335-67-1	Perfluorooctanoic acid (PFOA)	4.73		J+	I9
1800803	1800803-05	BPS1-TT-MW305I-20180427	4/27/2018	375-95-1	Perfluorononanoic acid (PFNA)	1.84	J	J+	I9
1800803	1800803-05	BPS1-TT-MW305I-20180427	4/27/2018	335-67-1	Perfluorooctanoic acid (PFOA)	16.2		J+	I9
1800803	1800803-06	BP-MH-SW4001-SOUTH-20180427	4/27/2018	335-76-2	Perfluorodecanoic acid (PFDA)	1.56	J	J+	I9
1800803	1800803-06	BP-MH-SW4001-SOUTH-20180427	4/27/2018	375-95-1	Perfluorononanoic acid (PFNA)	9.66		J+	I9
1800803	1800803-06	BP-MH-SW4001-SOUTH-20180427	4/27/2018	335-67-1	Perfluorooctanoic acid (PFOA)	20.7		J+	I9
1800803	1800803-07	BP-TT-SW4002-20180427	4/27/2018	335-67-1	Perfluorooctanoic acid (PFOA)	4.21		J+	I9
1800824	1800824-05	BPS1-TT-MW312S-20180429	4/29/2018	375-22-4	Perfluorobutanoic acid (PFBA)	14.5		J+	I9
1800824	1800824-05	BPS1-TT-MW312S-20180429	4/29/2018	335-76-2	Perfluorodecanoic acid (PFDA)	2.45	U	UJ	M4
1800824	1800824-05	BPS1-TT-MW312S-20180429	4/29/2018	307-24-4	Perfluorohexanoic acid (PFHXA)	21		J+	M2,I9
1800824	1800824-05	BPS1-TT-MW312S-20180429	4/29/2018	1763-23-1	Perfluorooctane sulfonic acid (PFOS)	3.72	J	J+	M2
1800824	1800824-05	BPS1-TT-MW312S-20180429	4/29/2018	335-67-1	Perfluorooctanoic acid (PFOA)	26		J+	I9
1800824	1800824-06	BP-DUP05-20180429	4/29/2018	335-67-1	Perfluorooctanoic acid (PFOA)	11.6		J+	I9
1800824	1800824-07	BPS1-TT-MW310S-20180430	4/30/2018	375-22-4	Perfluorobutanoic acid (PFBA)	10.8		J+	I9
1800824	1800824-07	BPS1-TT-MW310S-20180430	4/30/2018	307-24-4	Perfluorohexanoic acid (PFHXA)	10.8		J+	I9
1800824	1800824-07	BPS1-TT-MW310S-20180430	4/30/2018	375-95-1	Perfluorononanoic acid (PFNA)	6.84		J+	I9
1800824	1800824-07	BPS1-TT-MW310S-20180430	4/30/2018	335-67-1	Perfluorooctanoic acid (PFOA)	30.1		J+	I9
1800824	1800824-08	BPS1-TT-MW301I-20180430	4/30/2018	375-22-4	Perfluorobutanoic acid (PFBA)	4.48		J+	I9
1800824	1800824-08	BPS1-TT-MW301I-20180430	4/30/2018	335-76-2	Perfluorodecanoic acid (PFDA)	1.56	J	J+	I9
1800824	1800824-08	BPS1-TT-MW301I-20180430	4/30/2018	307-24-4	Perfluorohexanoic acid (PFHXA)	7.94		J+	I9
1800824	1800824-08	BPS1-TT-MW301I-20180430	4/30/2018	375-95-1	Perfluorononanoic acid (PFNA)	2.5	J	J+	I9
1800824	1800824-08	BPS1-TT-MW301I-20180430	4/30/2018	335-67-1	Perfluorooctanoic acid (PFOA)	6.31		J+	I9
1800824	1800824-09	BPS1-TT-MW314S-20180430	4/30/2018	375-22-4	Perfluorobutanoic acid (PFBA)	7.6		J+	I9
1800824	1800824-09	BPS1-TT-MW314S-20180430	4/30/2018	307-24-4	Perfluorohexanoic acid (PFHXA)	16.3		J+	I9
1800824	1800824-10	BPS1-TT-MW314I-20180430	4/30/2018	375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.63	J	J-	I10
1800824	1800824-10	BPS1-TT-MW314I-20180430	4/30/2018	375-22-4	Perfluorobutanoic acid (PFBA)	16.7		J+	I9
1800824	1800824-10	BPS1-TT-MW314I-20180430	4/30/2018	335-76-2	Perfluorodecanoic acid (PFDA)	2.81	J	J+	I9
1800824	1800824-10	BPS1-TT-MW314I-20180430	4/30/2018	307-24-4	Perfluorohexanoic acid (PFHXA)	35		J+	I9
1800824	1800824-10	BPS1-TT-MW314I-20180430	4/30/2018	375-95-1	Perfluorononanoic acid (PFNA)	10		J+	I9
1800824	1800824-10	BPS1-TT-MW314I-20180430	4/30/2018	335-67-1	Perfluorooctanoic acid (PFOA)	16.8		J+	I9
1800824	1800824-10	BPS1-TT-MW314I-20180430	4/30/2018	2058-94-8	Perfluoroundecanoic acid (PFUNA)	2.14	J	J+	I9
1800824	1800824-12	BPS1-TT-MW308D-20180430	4/30/2018	375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.42	U	UJ	I10
1800824	1800824-12	BPS1-TT-MW308D-20180430	4/30/2018	375-22-4	Perfluorobutanoic acid (PFBA)	21.3		J+	I9
1800824	1800824-12	BPS1-TT-MW308D-20180430	4/30/2018	335-76-2	Perfluorodecanoic acid (PFDA)	3.91		J+	I9

**Table B-1  
Qualified Results Summary after Data Review**

SDG	Lab ID	Sample ID	Sample Date	CAS No	Analyte	Result (ng/L)	Lab Qualifier	Final Qualifier	Reason Code
1800824	1800824-12	BPS1-TT-MW308D-20180430	4/30/2018	375-95-1	Perfluorononanoic acid (PFNA)	4.34		J+	I9
1800824	1800824-12	BPS1-TT-MW308D-20180430	4/30/2018	335-67-1	Perfluorooctanoic acid (PFOA)	16.1		J+	I9

**Notes:**

SDG = Sample delivery group

ID = Identification

CAS No. = Chemical Abstracts Services number

ng/L = Nanograms liter

U = **Undetected** — The analyte was analyzed but undetected at the listed limit of detection.

UJ = Undetected and estimated

J = **Estimated Value** — One or more quality control parameters were outside control limits or the analyte concentration was less than the limit of quantitation.

J+ = Positive value estimated with potential high bias

J- = Undetected value estimated with potential low bias

**Qualification Reason Codes:**

I9 = Internal standard infraction with potential high bias

I10 = Internal standard infraction with potential low bias

M2 = Percent recovery infraction with potential high bias

M4 = Duplicate precision infraction

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	BETHPAGE_NWIRP	1800803	SITE 00001	SITE 00001	BP-MH-SW4001	Surface water body - nonspecific	1125361.861	215372.779	N6247016D9008	WE09	TETRA TECH NUS, INC.	BP-MH-SW4001-SOUTH-20180427	Surface water	Normal (Regular)	27-Apr-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1800803	SITE 00001	SITE 00001	BP-TT-SW4002	Surface water body - nonspecific	1125242.847	215038.8825	N6247016D9008	WE09	TETRA TECH NUS, INC.	BP-TT-SW4002-20180427	Surface water	Normal (Regular)	27-Apr-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1800803	SITE 00001	SITE 00001	BP-TT-SW4004	Surface water body - nonspecific	1124878.102	214740.102	N6247016D9008	WE09	TETRA TECH NUS, INC.	BP-TT-SW4004-20180427	Surface water	Normal (Regular)	27-Apr-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1800803	SITE 00001	SITE 00001	BPS1-TT-MW305D	Monitoring well	1123949.183	213405.975	N6247016D9008	WE09	TETRA TECH NUS, INC.	BPS1-TT-MW305D-20180427	Ground water	Normal (Regular)	27-Apr-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1800803	SITE 00001	SITE 00001	BPS1-TT-MW305I	Monitoring well	1123939.487	213408.557	N6247016D9008	WE09	TETRA TECH NUS, INC.	BPS1-TT-MW305I-20180427	Ground water	Normal (Regular)	27-Apr-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1800803	SITE 00001	SITE 00001	BPS1-TT-MW305S	Monitoring well	1123930.127	213411.021	N6247016D9008	WE09	TETRA TECH NUS, INC.	BPS1-TT-MW305S-20180427	Ground water	Normal (Regular)	27-Apr-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1800803	SITE 00002	SITE 00002	BPS1-TT-MW308S	Monitoring well	1124909.9	214978.065	N6247016D9008	WE09	TETRA TECH NUS, INC.	BPS1-TT-MW308S-20180426	Ground water	Normal (Regular)	26-Apr-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1800803	SITE 00004	SITE 00004	BPHNMW24I	Monitoring well	1123261.3	214105.532	N6247016D9008	WE09	TETRA TECH NUS, INC.	BP-HN-MW24IR-20180427	Ground water	Normal (Regular)	27-Apr-18	537_MOD	Perfluoroalkyl Compounds