

Groundwater Sample Results, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG 1803088

Naval Weapons Industrial Reserve Plant Bethpage Bethpage, New York

August 2019

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"BP-TT-FRB04-20180914", "Modified EPA 537", "Initial", "1803088-01", "Vista", "375-22-
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"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "1802-PFHxS", "1802-

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PFHxS","97.6","%R","","-99","NA","","IS","97.6","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "13C2-6:2 FTS", "13C2-6:2
FTS","85.1","%R","","-99","NA","","IS","85.1","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "13C2-PFOA", "13C2
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"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "13C5-PFNA", "13C5
PFNA","83.8","%R","","-99","NA","","IS","83.8","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "13C8-PFOSA", "13C8-PF
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"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "13C8-PFOS", "13C8-
PFOS","96.2","%R","","-99","NA","","IS","96.2","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "13C2-PFDA", "13C2
PFDA","72.5","%R","","-99","NA","","IS","72.5","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "13C2-8:2 FTS", "13C2-8:2
FTS","80.7","%R","","-99","NA","","IS","80.7","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "d3-MeFOSAA", "d3-
MeFOSAA","64.6","%R","","-99","NA","","IS","64.6","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "d5-EtFOSAA", "d5-EtFO
EtFOSAA","71.5","%R","","-99","NA","","IS","71.5","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified\ EPA\ 537", "Initial", "1803088-04", "Vista", "13C2-PFUnA", "13C
PFUnA","72.1","%R","","-99","NA","","IS","72.1","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "13C2-PFDoA", "13C2-PF
PFDoA","72.8","%R","","-99","NA","","IS","72.8","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-TT-FRB07-20180917", "Modified EPA 537", "Initial", "1803088-04", "Vista", "13C2-PFTeDA", "13
PFTeDA","72.3","%R","","-99","NA","","IS","72.3","","-99","NA","YES","100","","0.122","0.001","-99",""
"B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "375-22-
4","PFBA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "2706-90-
3","PFPeA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "375-73-
5","PFBS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "307-24-
4","PFHxA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
 "B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "375-85-
9","PFHpA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
"B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "355-46-
4","PFHxS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
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FTS", "5.00", "ng/L", "UU", "2.74", "LOD", "", "TRG", "", "", "8.00", "LOQ", "YES", "-99", "", "0.125", "0.001", "5.00", "", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00",
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1","PFOA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "375-92-
8","PFHpS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "375-95-
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 "B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "754-91-
6","PFOSA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
 "B8I0157-BLK1","Modified EPA 537","Initial","B8I0157-BLK1","Vista","1763-23-
1","PFOS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "335-76-
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9","MeFOSAA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.0
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6","EtFOSAA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00
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8","PFUnA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
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3","PFDS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
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1","PFDoA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
 "B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "72629-94-
8","PFTrDA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",
"B8I0157-BLK1", "Modified EPA 537", "Initial", "B8I0157-BLK1", "Vista", "376-06-
7","PFTeDA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",
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PFHxA","99.4","%R","","-99","NA","","IS","99.4","","-99","NA","YES","100","","0.125","0.001","-99",""
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3","PFPeA","69.4","ng/L","","2.74","LOD","","TRG","86.8","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","375-73-
5","PFBS","72.3","ng/L","","2.74","LOD","","TRG","90.3","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "307-24-
4","PFHxA","68.4","ng/L","","2.74","LOD","","TRG","85.5","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
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9","PFHpA","64.9","ng/L","","2.74","LOD","","TRG","81.2","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","355-46-
4","PFHxS","69.8","ng/L","","2.74","LOD","","TRG","87.3","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","27619-97-2","6:2
FTS","67.5","ng/L","","2.74","LOD","","TRG","84.4","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "335-67-
1","PFOA","62.2","ng/L","","2.74","LOD","","TRG","77.8","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "375-92-
8", "PFHpS", "71.2", "ng/L", "", "2.74", "LOD", "", "TRG", "89.0", "", "89.00", "LOQ", "YES", "80.0", "", "0.125", "0.001", "5.00", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", "1.20", 
"B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","375-95-
1","PFNA","71.3","ng/L","","2.74","LOD","","TRG","89.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "754-91-
6","PFOSA","69.7","ng/L","","2.74","LOD","","TRG","87.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00"
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "1763-23-
1", "PFOS", "69.2", "ng/L", "", "2.74", "LOD", "", "TRG", "86.5", "", "8.00", "LOQ", "YES", "80.0", "", "0.125", "0.001", "5.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1
"B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","335-76-
2","PFDA","66.0","ng/L","","2.74","LOD","","TRG","82.5","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "39108-34-4", "8:2
FTS","73.8","ng/L","","2.74","LOD","","TRG","92.2","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "2355-31-
9","MeFOSAA","76.7","ng/L","","2.74","LOD","","TRG","95.8","","8.00","LOQ","YES","80.0","","0.125","0.001","5.
00",""
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "2991-50-
6","EtFOSAA","72.3","ng/L","","2.74","LOD","","TRG","90.3","","8.00","LOQ","YES","80.0","","0.125","0.001","5.0
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "2058-94-
8", "PFUnA", "69.3", "ng/L", "", "2.74", "LOD", "", "TRG", "86.6", "", "80.00", "LOQ", "YES", "80.0", "", "0.125", "0.001", "5.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", 
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "335-77-
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3","PFDS","56.9","ng/L","","2.74","LOD","","TRG","71.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
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PFBA","99.8","%R","","-99","NA","","IS","99.8","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","13C3-PFPeA","13C3-
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"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "13C3-PFBS", 
PFBS","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.125","0.001","-99",""
 "B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","13C2-PFHxA","13C2-
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PFHxS","106","%R","","-99","NA","","IS","106","","-99","NA","YES","100","","0.125","0.001","-99",""
 "B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","13C2-6:2 FTS","13C2-6:2
FTS","96.3","%R","","-99","NA","","IS","96.3","","-99","NA","YES","100","","0.125","0.001","-99","" "B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","13C2-PFOA","13C2-
PFOA","97.3","%R","","-99","NA","","IS","97.3","","-99","NA","YES","100","","0.125","0.001","-99",""
 "B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "13C5-PFNA", "13C5-
PFNA","84.2","%R","","-99","NA","","IS","84.2","","-99","NA","YES","100","","0.125","0.001","-99",""
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PFOSA","33.2","%R","H","-99","NA","","IS","33.2","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "13C8-PFOS", "13C8-PFOS", "13C8-PFOS", "97.2", "%R", "", "-99", "NA", "YES", "100", "", "0.125", "0.001", "-99", ""
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "13C2-PFDA", 
PFDA","70.1","%R","","-99","NA","","IS","70.1","","-99","NA","YES","100","","0.125","0.001","-99",""
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FTS","92.0","%R","","-99","NA","","IS","92.0","","-99","NA","YES","100","","0.125","0.001","-99",""
 "B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "d3-MeFOSAA", "d3-
MeFOSAA","68.8","%R","","-99","NA","","IS","68.8","","-99","NA","YES","100","","0.125","0.001","-99","" "B8I0157-BS1","Modified EPA 537","Initial","B8I0157-BS1","Vista","d5-EtFOSAA","d5-
EtFOSAA","71.9","%R","","-99","NA","","IS","71.9","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "13C2-PFUnA", "1
PFUnA","72.3","%R","","-99","NA","","IS","72.3","","-99","NA","YES","100","","0.125","0.001","-99",""
 "B8I0157-BS1", "Modified EPA 537", "Initial", "B8I0157-BS1", "Vista", "13C2-PFDoA", "13C2-
PFDoA","70.5","%R","","-99","NA","","IS","70.5","","-99","NA","YES","100","","0.125","0.001","-99",""
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21:32","Vista","COA","WET","NA","1","NA","01/01/1900 00:00","100","B8I0157","B8I0157","NA","S8J0006","1803088","09/19/2018 09:13","01/01/1900 00:00",""
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21:43","Vista","COA","WET","NA","1","NA","NA","01/01/1900
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00:00","100","B8I0157","B8I0157","NA","S8J0006","1803088","01/01/1900 00:00","01/01/1900 00:00",""



2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130 (770) 232-5082 (Fax) www.datavalidator.com

DATA VALIDATION SUMMARY REPORT - RADIOCHEMISTRY

COMPANY: Tetra Tech, Inc., Norfolk, VA

PROJECT NAME: Basewide Radiological Groundwater Investigation, Naval

Weapons Industrial Reserve Plant (NWIRP), Bethpage, NY

SITE NAME: CTO-WE09

CONTRACTED LAB: Vista Analytical Laboratory

CONTRACT NO.: N62470-16-D-9008

QA/QC LEVEL: EPA Stage 4

ANALYTICAL METHODS: EPA 537 Modified

VALIDATION GUIDELINES: Sampling and Analysis Plan for Per- and polyfluoroalkyl

Substances Investigation, February 2018, QSM 5.1, and

Professional Judgment

SAMPLE MATRIX: Water

TYPES OF ANALYSES: Per- and Polyfluoroalkyl Substances (PFAS) Using Liquid

Chromatography Tandem Mass Spectrometry (LC/MS/MS)

DATA VALIDATION DATE: March 12, 2019 DATA REVIEWER(S): Thomas B. Granat

SDG NUMBER: 1803088

SAMPLING DATE(S): September 14-17, 2018

SAMPLES:

Client Sample ID	Laboratory ID	<u>PFAS</u>
BP-TT-FRB04-20180914	1803088-01	X
BP-TT-FRB05-20180915	1803088-02	X
BP-TT-FRB06-20180916	1803088-03	X
BP-TT-FRB07-20180917	1803088-04	X

Qualifier	Definition
No qualifier	Confirmed identification. The analyte was positively identified at the reported value. The reported concentration is within the calibrated range of the instrument and the result is not affected by any deficiencies in the associated quality control criteria.
J	The analyte was detected at the reported concentration; the quantitation is an estimate.
J-	The analyte was detected at the reported concentration; the quantitation is an estimate and may be biased low.
J+	The analyte was detected at the reported concentration; the quantitation is an estimate and may be biased high.
U	Not considered detected. The associated number is the reported concentration.
UJ	Not considered detected. The associated number is the reported concentration, which may be inaccurate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA VALIDATION SUMMARY

Vista Analytical Laboratory – SDG: 1803088

PFAS (Per- and polyfluoroalkyl substances)

SUMMARY

I.) General:

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using the PFAS Isotope Dilution Method (Modified EPA Method 537). The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Laboratory Data Package:

The required documentation was present and complete. The laboratory presented a complete and accurate case narrative in the data package. The data package contains results for all samples and method types listed on the COC.

II.) Sample Receipt, Preservation, and Holding Times:

The samples were received intact with proper COC documentation and signatures. The samples were received within the method temperature requirements and were stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were extracted and analyzed within the method hold times.

III.) LC-MS Tune:

All LC-MS Tune criteria were met. No data qualification was necessary.

IV.) Initial Calibration (ICAL) and Initial Calibration Verification (ICV):

All Initial Calibration and Initial Calibration Verification criteria were met. No data qualification was

necessary.

V.) Continuing Calibration (CCV):

All Continuing Calibration Verification criteria were met. No data qualification was necessary.

VI.) CRDL / CRQL standards:

All CRDL / CRQL standards criteria were met. No data qualification was necessary.

VII.) Blanks:

Calibration Blanks:

There were no detections in the calibration blanks. No data qualification was necessary.

Preparation Blanks:

There were no detections in the preparation blanks. No data qualification was necessary.

Equipment Blanks:

There were no equipment blanks identified in this SDG. No data qualification was necessary.

Field Blanks:

The four SDG samples were field reagent blanks. There were no detections in the field reagent blanks. No data qualification was necessary.

VIII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Since the only SDG samples were field QC samples, MS / MSD analyses were not performed. No data qualification was necessary.

IV.) Duplicate Sample Analysis:

Since the only SDG samples were field QC samples, MD analysis was not performed. No data qualification was necessary.

X.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No data qualification was necessary.

XI.) Field Duplicates:

There were no field duplicates identified in the SDG. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

ISTD percent recoveries (%R) for 13C8-PFOSA were below the QC lower limit of 50%. Below are the associated analytes:

Client Sample ID	<u>Lab ID</u>	<u>Analyte</u>	ISTD %R	Qualifier	Code
BP-TT-FRB04-20180914	1803088-01	PFOSA	35.7	UJ	N
BP-TT-FRB05-20180915	1803088-02	PFOSA	40.3	UJ	N
BP-TT-FRB06-20180916	1803088-03	PFOSA	39.2	UJ	N
BP-TT-FRB07-20180917	1803088-04	PFOSA	30.9	UJ	N

The above associated analyte results were qualified as estimated (UJ) with reason code N.

XIII.) Ion Transitions:

Proper Ion transitions were used to quantify the analytes. No data qualification was necessary.

XIV.) Ion Ratio:

There were no detections in the SDG samples. No data qualification was necessary.

XV.) Reporting limits (RLs):

All LOQs were less than the project quantitation limits for the applicable analytes. No data qualification was necessary.

XVI.) Instrument Performance criteria (Stage 4):

All Instrument Performance criteria were met. No data qualification was necessary.

XVII.) Sample Calculation Verification (Stage 4):

All analyte results were non-detects.

Appendix A

Data Qualification Summary Table (DQST) with Qualification Codes

SDG: 1803088 4

SAMPLE_ID	SAMP_DATE	LAB_ID	PARAMETER	LAB_RES	VAL_RES	VAL_QUAL	VAL_REASON_CODE
BP-TT-FRB04-20180914	9/14/2018 0:00	1803088-01	PFOSA	5.3	5.3	UJ	N
BP-TT-FRB05-20180915	9/15/2018 0:00	1803088-02	PFOSA	5.17	5.17	UJ	N
BP-TT-FRB06-20180916	9/16/2018 0:00	1803088-03	PFOSA	5.43	5.43	UJ	N
BP-TT-FRB07-20180917	9/17/2018 0:00	1803088-04	PFOSA	5.12	5.12	UJ	N

Appendix B

Laboratory Sample Results

SDG: 1803088 6



Sample ID: BP-TT-FRB04-20180914 PFAS Isotope Dilution Method

Client Data

Name:

Tetra Tech

Matrix:

QC Water

Laboratory Data

Lab Sample: 1803088-01

Column: BEH C18

rame. Tetta Teen		matrix.	, QC ,		l l	oumpic.	1005000-0		Column.	BEH C18	
Project: Bethpage		Date Coll	ected: 14-S	ep-18 11:00	Date	Received:	19-Sep-18	09:13			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFPeA	2706-90-3	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFBS	375-73-5	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFHxA	307-24-4	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFHpA	375-85-9	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFHxS	355-46-4	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
6:2 FTS	27619-97-2	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFOA	335-67-1	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFHpS	375-92-8	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFNA	375-95-1	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFOSA	754-91-6	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFOS	1763-23-1	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFDA	335-76-2	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
8:2 FTS	39108-34-4	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
MeFOSAA	2355-31-9	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
EtFOSAA	2991-50-6	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFUnA	2058-94-8	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFDS	335-77-3	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFDoA	307-55-1	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFTrDA	72629-94-8	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFTeDA	376-06-7	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
Labeled Standards	Type	% Recovery				0 1.6	D-4-1-		C C:		Dilution
13C3-PFBA	-JF*	76 Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	
	IS	95.2		50 - 150		Qualifiers	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
13C3-PFPeA						Quanners					1
	IS	95.2		50 - 150		Quanners	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
13C3-PFBS	IS IS	95.2 91.8		50 - 150 50 - 150		Quanners	B8I0157 B8I0157	28-Sep-18 28-Sep-18	0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32	1
13C3-PFBS 13C2-PFHxA	IS IS IS	95.2 91.8 92.9		50 - 150 50 - 150 50 - 150		Quantiers	B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1
13C3-PFBS 13C2-PFHxA 13C4-PFHpA	IS IS IS IS	95.2 91.8 92.9 88.7		50 - 150 50 - 150 50 - 150 50 - 150		Quantiers	B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1
13C3-PFBS 13C2-PFHxA 13C4-PFHpA 18O2-PFHxS	IS IS IS IS	95.2 91.8 92.9 88.7 94.2		50 - 150 50 - 150 50 - 150 50 - 150 50 - 150		Quantiers	B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1
13C3-PFBS 13C2-PFHxA 13C4-PFHpA 18O2-PFHxS 13C2-6:2 FTS	IS IS IS IS IS IS IS	95.2 91.8 92.9 88.7 94.2 95.3		50 - 150 50 - 150 50 - 150 50 - 150 50 - 150 50 - 150		Quantiers	B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1 1 1
13C3-PFBS 13C2-PFHxA 13C4-PFHpA 18O2-PFHxS 13C2-6:2 FTS 13C2-PFOA	IS IS IS IS IS IS IS IS	95.2 91.8 92.9 88.7 94.2 95.3 94.5		50 - 150 50 - 150 50 - 150 50 - 150 50 - 150 50 - 150 50 - 150		Quaimers	B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1 1 1 1
13C3-PFBS 13C2-PFHxA 13C4-PFHpA 18O2-PFHxS 13C2-6:2 FTS 13C2-PFOA 13C5-PFNA	IS	95.2 91.8 92.9 88.7 94.2 95.3 94.5 82.5		50 - 150 50 - 150		H	B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1 1 1 1 1
13C3-PFPeA 13C3-PFBS 13C2-PFHxA 13C4-PFHpA 18O2-PFHxS 13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS	IS	95.2 91.8 92.9 88.7 94.2 95.3 94.5 82.5 79.1		50 - 150 50 - 150			B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1 1 1 1 1
13C3-PFBS 13C2-PFHxA 13C4-PFHpA 18O2-PFHxS 13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA	IS I	95.2 91.8 92.9 88.7 94.2 95.3 94.5 82.5 79.1 35.7		50 - 150 50 - 150			B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1 1 1 1 1 1 1
13C3-PFBS 13C2-PFHxA 13C4-PFHpA 18O2-PFHxS 13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS	IS IS	95.2 91.8 92.9 88.7 94.2 95.3 94.5 82.5 79.1 35.7 94.2		50 - 150 50 - 150			B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1 1 1 1 1 1 1 1
13C3-PFBS 13C2-PFHxA 13C4-PFHpA 18O2-PFHxS 13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS 13C2-PFDA	IS I	95.2 91.8 92.9 88.7 94.2 95.3 94.5 82.5 79.1 35.7 94.2 66.7		50 - 150 50 - 150			B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1 1 1 1 1 1 1 1 1
13C3-PFBS 13C2-PFHxA 13C4-PFHpA 18O2-PFHxS 13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS 13C2-PFDA 13C2-8:2 FTS	IS IS	95.2 91.8 92.9 88.7 94.2 95.3 94.5 82.5 79.1 35.7 94.2 66.7 84.1		50 - 150 50 - 150			B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1 1 1 1 1 1 1 1 1

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Sample ID: BP-TT-FRB04-20180914 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: QC Water Lab Sample: 1803088-01 Column: BEH C18

Project: Bethpage Date Collected: 14-Sep-18 11:00 Date Received: 19-Sep-18 09:13

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 73.7 50 - 150 B8I0157 28-Sep-18 0.118 L 02-Oct-18 21:32 13C2-PFTeDA IS 75.6 50 - 150 B8I0157 28-Sep-18 0.118 L 02-Oct-18 21:32

DL - Detection Limit

LOD - Limit of Detection

Results reported to the DL.

LOQ - Limit of quantitation

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

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PFAS Isotope Dilution Method Sample ID: BP-TT-FRB05-20180915

Client Data

Name:

Tetra Tech Bethpage

Matrix: QC Water **Laboratory Data**

Lab Sample: 1803088-02

Column: BEH C18

Name. Tetta Tech		Mati IX.	QC I			Sample.	1003000-0		Column:	BEH C18	
Project: Bethpage		Date Col	lected: 15-S	ep-18 13:00	Date	Received:	19-Sep-18 09:13		3		
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFPeA	2706-90-3	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFBS	375-73-5	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFHxA	307-24-4	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFHpA	375-85-9	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFHxS	355-46-4	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
6:2 FTS	27619-97-2	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFOA	335-67-1	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFHpS	375-92-8	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFNA	375-95-1	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
PFOSA	754-91-6	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFOS	1763-23-1	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFDA	335-76-2	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
8:2 FTS	39108-34-4	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
MeFOSAA	2355-31-9	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
EtFOSAA	2991-50-6	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
PFUnA	2058-94-8	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
PFDS	335-77-3	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
PFDoA	307-55-1	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
PFTrDA	72629-94-8	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
PFTeDA	376-06-7	ND	2.84	5.17	8.30	U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
Labeled Standards	Туре	% Recovery		Limits		Qualifiers	Batch	Extracted		Analyzed	Dilution
13C3-PFBA	IS	93.8		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C3-PFPeA	IS	88.0		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C3-PFBS	IS	98.6		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C2-PFHxA	IS	88.9		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C4-PFHpA	IS	90.6		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
18O2-PFHxS	IS	98.9		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C2-6:2 FTS	IS	89.2		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C2-PFOA	IS	82.0		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C5-PFNA	IS	79.9		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C8-PFOSA	IS	40.3		50 - 150		Н	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C8-PFOS	IS	87.9		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C2-PFDA	IS	67.2		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C2-8:2 FTS	IS	78.6		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
d3-MeFOSAA	IS	66.8		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
d5-EtFOSAA	IS	71.0		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C2-PFUnA	IS	69.4		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
1302 11 01111	10	U).T		30 - 130			D010137	20-5cp-10	U.121 L	02-001-10 21.43	1

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Sample ID: BP-TT-FRB05-20180915 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: QC Water Lab Sample: 1803088-02 Column: BEH C18

Project: Bethpage Date Collected: 15-Sep-18 13:00 Date Received: 19-Sep-18 09:13

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 67.4 50 - 150 B8I0157 28-Sep-18 0.121 L 02-Oct-18 21:43 13C2-PFTeDA IS 69.7 50 - 150 B8I0157 28-Sep-18 0.121 L 02-Oct-18 21:43

DL - Detection Limit

LOD - Limit of Detection

Results reported to the DL.

LOQ - Limit of quantitation

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

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PFAS Isotope Dilution Method Sample ID: BP-TT-FRB06-20180916

Client Data

Name:

Tetra Tech Dothe

Laboratory Data QC Water Matrix:

Lab Sample: 1803088-03 10 Cap 19 00:12

Column: BEH C18

Project: Bethpage		Date Collected: 16-Sep-18 13:40				Received:	19-Sep-18 09:13		Column:	BEH C18	
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFPeA	2706-90-3	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFBS	375-73-5	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFHxA	307-24-4	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
PFHpA	375-85-9	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFHxS	355-46-4	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
6:2 FTS	27619-97-2	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	. 1
PFOA	335-67-1	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFHpS	375-92-8	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	. 1
PFNA	375-95-1	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFOSA	754-91-6	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	. 1
PFOS	1763-23-1	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFDA	335-76-2	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	. 1
8:2 FTS	39108-34-4	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
MeFOSAA	2355-31-9	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
EtFOSAA	2991-50-6	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFUnA	2058-94-8	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFDS	335-77-3	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFDoA	307-55-1	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFTrDA	72629-94-8	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
PFTeDA	376-06-7	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	95.9		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
13C3-PFPeA	IS	92.0		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
13C3-PFBS	IS	101		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
13C2-PFHxA	IS	91.9		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
13C4-PFHpA	IS	96.2		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
18O2-PFHxS	IS	97.6		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-6:2 FTS	IS	89.9		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-PFOA	IS	86.7		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	1
13C5-PFNA	IS	78.9		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C8-PFOSA	IS	39.2		50 - 150		Н	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C8-PFOS	IS	95.2		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-PFDA	IS	71.2		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-8:2 FTS	IS	84.2		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
d3-MeFOSAA	IS	69.0		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
d5-EtFOSAA	IS	72.6		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-PFUnA	IS	64.6		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
		0		20 100			3010107	_0 5 0 p 10	J 2	0 0 0 10 2 1.00	-

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Sample ID: BP-TT-FRB06-20180916 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: QC Water Lab Sample: 1803088-03 Column: BEH C18

Project: Bethpage Date Collected: 16-Sep-18 13:40 Date Received: 19-Sep-18 09:13

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 66.5 50 - 150 B8I0157 28-Sep-18 0.115 L 02-Oct-18 21:53 13C2-PFTeDA IS 74.1 50 - 150 B8I0157 28-Sep-18 0.115 L 02-Oct-18 21:53

DL - Detection Limit

LOD - Limit of Detection

Results reported to the DL.

LOQ - Limit of quantitation

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

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PFAS Isotope Dilution Method Sample ID: BP-TT-FRB07-20180917

Client Data

Laboratory Data Lab Sample: Matrix: QC Water

Name: Tetra Tech Project: Bethpage		Matrix: Date Coll	QC V lected: 17-S		Lab S	Sample: Received:	1803088-0 19-Sep-18		Column:	BEH C18	
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFPeA	2706-90-3	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFBS	375-73-5	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFHxA	307-24-4	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFHpA	375-85-9	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFHxS	355-46-4	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
6:2 FTS	27619-97-2	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFOA	335-67-1	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFHpS	375-92-8	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFNA	375-95-1	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFOSA	754-91-6	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFOS	1763-23-1	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFDA	335-76-2	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
8:2 FTS	39108-34-4	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
MeFOSAA	2355-31-9	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
EtFOSAA	2991-50-6	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFUnA	2058-94-8	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFDS	335-77-3	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFDoA	307-55-1	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFTrDA	72629-94-8	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFTeDA	376-06-7	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size		Dilution
13C3-PFBA	IS	97.1		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C3-PFPeA	IS	90.8		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C3-PFBS	IS	95.4		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C2-PFHxA	IS	92.0		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C4-PFHpA	IS	98.6		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
18O2-PFHxS				50 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
	IS	97.6		50 - 150							1
13C2-6:2 FTS		97.6 85.1		50 - 150 50 - 150			B8I0157		0.122 L	05-Oct-18 11:32	
	IS IS IS							28-Sep-18	0.122 L 0.122 L	05-Oct-18 11:32 05-Oct-18 11:32	1
13C2-6:2 FTS	IS	85.1		50 - 150			B8I0157				•
13C2-6:2 FTS 13C2-PFOA	IS IS	85.1 92.6		50 - 150 50 - 150		Н	B8I0157 B8I0157	28-Sep-18 28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA	IS IS IS	85.1 92.6 83.8		50 - 150 50 - 150 50 - 150		Н	B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18	0.122 L 0.122 L	05-Oct-18 11:32 05-Oct-18 11:32	1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA	IS IS IS IS IS	85.1 92.6 83.8 30.9		50 - 150 50 - 150 50 - 150 50 - 150 50 - 150		Н	B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.122 L 0.122 L 0.122 L 0.122 L	05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32	1 1 1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS	IS IS IS IS IS IS	85.1 92.6 83.8 30.9 96.2		50 - 150 50 - 150 50 - 150 50 - 150		Н	B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.122 L 0.122 L 0.122 L 0.122 L 0.122 L	05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32	1 1 1 1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS 13C2-PFDA	IS IS IS IS IS	85.1 92.6 83.8 30.9 96.2 72.5		50 - 150 50 - 150 50 - 150 50 - 150 50 - 150 50 - 150		Н	B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.122 L 0.122 L 0.122 L 0.122 L	05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32	1 1 1 1 1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS 13C2-PFDA 13C2-8:2 FTS	IS IS IS IS IS IS IS	85.1 92.6 83.8 30.9 96.2 72.5 80.7		50 - 150 50 - 150 50 - 150 50 - 150 50 - 150 50 - 150 50 - 150		Н	B8I0157 B8I0157 B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.122 L 0.122 L 0.122 L 0.122 L 0.122 L 0.122 L	05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32 05-Oct-18 11:32	1 1 1 1 1

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Sample ID: BP-TT-FRB07-20180917 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: QC Water Lab Sample: 1803088-04 Column: BEH C18

Project: Bethpage Date Collected: 17-Sep-18 11:00 Date Received: 19-Sep-18 09:13

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 72.8 50 - 150 B8I0157 28-Sep-18 0.122 L 05-Oct-18 11:32 13C2-PFTeDA IS 72.3 50 - 150 B8I0157 28-Sep-18 0.122 L 05-Oct-18 11:32

DL - Detection Limit LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

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Appendix C

Support Documents

A. Documents Supporting Qualifications

SDG: 1803088 7



Sample ID: BP-TT-FRB04-20180914 PFAS Isotope Dilution Method

Client Data

Name: Tetra Tech

Matrix:

QC Water

Laboratory Data

Lab Sample: 1803088-01

Column: BEH C18

Name. Tetta Tech		Deta Call	QC V			Danipie.	10.05000-0		Column:	BEH C18	
Project: Bethpage		Date Con	ected: 14-S	ep-18 11:00	Date	Received:	19-Sep-18	09:13			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFPeA	2706-90-3	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFBS	375-73-5	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFHxA	307-24-4	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFHpA	375-85-9	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFHxS	355-46-4	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
6:2 FTS	27619-97-2	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFOA	335-67-1	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFHpS	375-92-8	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFNA	375-95-1	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFOSA	754-91-6	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFOS	1763-23-1	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
PFDA	335-76-2	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
8:2 FTS	39108-34-4	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
MeFOSAA	2355-31-9	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	
EtFOSAA	2991-50-6	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	
PFUnA	2058-94-8	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	
PFDS	335-77-3	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	
PFDoA	307-55-1	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	
PFTrDA	72629-94-8	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	
PFTeDA	376-06-7	ND	2.90	5.30	8.46	U	B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	
Labeled Standards	Туре	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size		Dilution
13C3-PFBA	IS	95.2		50 - 150			B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
13C3-PFPeA	IS	91.8		50 - 150			B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
13C3-PFBS	IS	92.9		50 - 150			B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
13C2-PFHxA	IS	88.7		50 - 150			B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
13C4-PFHpA	IS	94.2		50 - 150			B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
18O2-PFHxS	IS	95.3		50 - 150			B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	
13C2-6:2 FTS	IS	94.5		50 - 150			B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
13C2-PFOA	IS	82.5		50 - 150			B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	1
13C5-PFNA	15										
				50 - 150			B8I0157	28-Sep-18	0.118 L	02-Oct-18 21:32	. 1
	IS	79.1 35.7		50 - 150 50 - 150		H	B8I0157 B8I0157	28-Sep-18 28-Sep-18	0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32	
13C8-PFOSA		79.1				H		28-Sep-18			1
<mark>13C8-PFOSA</mark> 13C8-PFOS	IS <mark>IS</mark> IS	79.1 35.7 94.2		50 - 150 50 - 150		H	B8I0157 B8I0157	28-Sep-18 28-Sep-18	0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32	1
13C8-PFOSA 13C8-PFOS 13C2-PFDA	IS IS IS	79.1 35.7 94.2 66.7		50 - 150 50 - 150 50 - 150		(H)	B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1
13C8-PFOSA 13C8-PFOS 13C2-PFDA 13C2-8:2 FTS	IS IS IS IS IS	79.1 35.7 94.2 66.7 84.1		50 - 150 50 - 150 50 - 150 50 - 150		H	B8I0157 B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1
13C8-PFOSA 13C8-PFOS 13C2-PFDA 13C2-8:2 FTS d3-MeFOSAA d5-EtFOSAA	IS IS IS	79.1 35.7 94.2 66.7		50 - 150 50 - 150 50 - 150		H	B8I0157 B8I0157 B8I0157	28-Sep-18 28-Sep-18 28-Sep-18	0.118 L 0.118 L 0.118 L	02-Oct-18 21:32 02-Oct-18 21:32 02-Oct-18 21:32	1 1 1 1

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PFAS Isotope Dilution Method Sample ID: BP-TT-FRB05-20180915

Client Data

Laboratory Data Lab Sample: Matrix: QC Water

	n Tech apage		Matrix: Date Colle	ected:	QC Water 15-Sep-18 13:00		Lab Sample: Date Received:	1803088-0 19-Sep-18		Column:	BEH C18	
Analyte		CAS Number	Conc. (ng/L)	DL	LOD	LO	Q Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA		375-22-4	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFPeA		2706-90-3	ND	2.84		8.3		B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFBS		375-73-5	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFHxA		307-24-4	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFHpA		375-85-9	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFHxS		355-46-4	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
6:2 FTS		27619-97-2	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFOA		335-67-1	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFHpS		375-92-8	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFNA		375-95-1	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFOSA		754-91-6	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFOS		1763-23-1	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFDA		335-76-2	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
8:2 FTS		39108-34-4	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
MeFOSAA		2355-31-9	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
EtFOSAA		2991-50-6	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFUnA		2058-94-8	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFDS		335-77-3	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFDoA		307-55-1	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFTrDA		72629-94-8	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
PFTeDA		376-06-7	ND	2.84	4 5.17	8.3	0 U	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
Labeled Standards		Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA		IS	93.8		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C3-PFPeA		IS	88.0		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C3-PFBS		IS	98.6		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C2-PFHxA		IS	88.9		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C4-PFHpA		IS	90.6		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
18O2-PFHxS		IS	98.9		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C2-6:2 FTS		IS	89.2		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C2-PFOA		IS	82.0		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C5-PFNA		IS	79.9		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C8-PFOSA		IS	40.3		50 - 150		H	B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
13C8-PFOS		IS	87.9		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C2-PFDA		IS	67.2		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C2-8:2 FTS		IS	78.6		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	1
d3-MeFOSAA		IS	66.8		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
d5-EtFOSAA		IS	71.0		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	
13C2-PFUnA		IS	69.4		50 - 150			B8I0157	28-Sep-18	0.121 L	02-Oct-18 21:43	

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BEH C18

Column:

Sample ID: BP-TT-FRB06-20180916 PFAS Isotope Dilution Method

Client Data

Name:

Tetra Tech Rethnage

Laboratory Data Lab Sample: Matrix: QC Water

1803088-03

Name. Tetta Tech		Mati IX.	QC 1			sample.	1003000-0		Column:	BEH C18	
Project: Bethpage		Date Col	lected: 16-S	ep-18 13:40	Date	Received:	19-Sep-18	3 09:13			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	, 1
PFPeA	2706-90-3	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFBS	375-73-5	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFHxA	307-24-4	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFHpA	375-85-9	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFHxS	355-46-4	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
6:2 FTS	27619-97-2	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFOA	335-67-1	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFHpS	375-92-8	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFNA	375-95-1	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFOSA	754-91-6	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFOS	1763-23-1	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
PFDA	335-76-2	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
8:2 FTS	39108-34-4	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
MeFOSAA	2355-31-9	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
EtFOSAA	2991-50-6	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
PFUnA	2058-94-8	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
PFDS	335-77-3	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
PFDoA	307-55-1	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
PFTrDA	72629-94-8	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
PFTeDA	376-06-7	ND	2.98	5.43	8.70	U	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	95.9		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
13C3-PFPeA	IS	92.0		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C3-PFBS	IS	101		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-PFHxA	IS	91.9		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	3 1
13C4-PFHpA	IS	96.2		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
18O2-PFHxS	IS	97.6		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-6:2 FTS	IS	89.9		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-PFOA	IS	86.7		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C5-PFNA	IS	78.9		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C8-PFOSA	IS	39.2		50 - 150		H	B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C8-PFOS	IS	95.2		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-PFDA	IS	71.2		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-8:2 FTS	IS	84.2		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
d3-MeFOSAA	IS	69.0		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
d5-EtFOSAA	IS	72.6		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
13C2-PFUnA	IS	64.6		50 - 150			B8I0157	28-Sep-18	0.115 L	02-Oct-18 21:53	
	10	0		20 100			3010107	=0 0 0 p 10	0.1.10	000 10 21.00	-

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Sample ID: BP-TT-FRB07-20180917 PFAS Isotope Dilution Method

Client Data

Name: Tetra Tech

Laboratory Data Lab Sample: Matrix: QC Water

1803088-04 Column: BEH C18

7		D + C 1	1 1 4 = 0	10 11 00	5	Dampie.	1000000		Column.	DEII C10	
Project: Bethpage		Date Col	lected: 17-S	ep-18 11:00	Date	e Received:	19-Sep-18	3 09:13			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	. 1
PFPeA	2706-90-3	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFBS	375-73-5	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFHxA	307-24-4	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFHpA	375-85-9	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFHxS	355-46-4	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
6:2 FTS	27619-97-2	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFOA	335-67-1	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFHpS	375-92-8	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFNA	375-95-1	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFOSA	754-91-6	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFOS	1763-23-1	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFDA	335-76-2	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
8:2 FTS	39108-34-4	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
MeFOSAA	2355-31-9	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
EtFOSAA	2991-50-6	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFUnA	2058-94-8	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	. 1
PFDS	335-77-3	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFDoA	307-55-1	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFTrDA	72629-94-8	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
PFTeDA	376-06-7	ND	2.82	5.12	8.22	U	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	. 1
Labeled Standards	Туре	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.1		50 - 150			B8I0157	28-Sep-18	$0.122~\mathrm{L}$	05-Oct-18 11:32	1
13C3-PFPeA	IS	90.8		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C3-PFBS	IS	95.4		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C2-PFHxA	IS	92.0		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	. 1
13C4-PFHpA	IS	98.6		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
18O2-PFHxS	IS	97.6		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C2-6:2 FTS	IS	85.1		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	2 1
13C2-PFOA	IS	92.6		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	. 1
13C5-PFNA	IS	83.8		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C8-PFOSA	IS	30.9		50 - 150		H	B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	2 1
13C8-PFOS	IS	96.2		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C2-PFDA	IS	72.5		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	1
13C2-8:2 FTS	IS	80.7		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	
d3-MeFOSAA	IS	64.6		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	2 1
d5-EtFOSAA	IS	71.5		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	
13C2-PFUnA	IS	72.1		50 - 150			B8I0157	28-Sep-18	0.122 L	05-Oct-18 11:32	. 1
								•			

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Appendix C

Support Documents

B. Chain of Custody (COC)

Chain of Custody Record Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 (916) 673-1520 • Fax (916)673-0106 Regulatory Program: Dw **□**RCRA Client Contact roject Manager: David Brayack Site Contact: Chuck Meyer COC No: TetraTech Tel/Fax: (757) 466-4909 Lab Contact: Jade White Carrier: FedEx Page 1 of 2 5700 Lake Wright Dr Suite 102 Analysis Turnaround Time Chuck Meyer Norfolk, VA 23502 CALENDAR DAYS TWORKING DAYS For Lab Use Only: (757) 466-4909 TAT if different from Below 21 Walk-in Client: S (NYSDEC 21-Com EPA 537 Modified 2 weeks Lab Sampling: Project Name: Bethpage 1 week Site: 2 days Job / SDG No.: PO# 1 day Type Sample Sample # of Sample Identification G=Grab) Date Time Matrix Sample Specific Notes: BPSI-TT-MW308D-20180914 9/14/2018 10:10 G GW 6 X MS/MSD BPSI-HN-MW24S-20180914 9/14/2018 10:25 G GW 2 X BPSI-HN-MW24IR-20180914 9/14/2018 12:20 G GW 2 X BP-DUP02-20180914 9/14/2018 12:00 G QC 2 X BPSI-TT-MW306I-20180914 9/14/2018 X 10:10 G GW 2 BPSI-TT-MW306S-20180914 9/14/2018 13:00 G GW 2 X BP-TT-FRB04-20180914 X 9/14/2018 11:00 G QC 2 Field Reagent Blank WUS 09 / 20 / 18 BP-FB01-20180913 9/13/2018 16:00 G QC 2 BP-TT-EB02-20180914 9/14/2018 15:00 G QC 2 BP-TT-AOC22-MW04-20180914 NN 9/14/2018 X 15:45 G GW 2 BPSI-TT-MW308I-20180915 9/15/2018 9:55 G GW 2 X BP-AOC22-MW03-20180915 9/15/2018 9:35 G GW 2 X BPSI-TT-MW309S-20180915 9/15/2018 11:35 G X GW 2 BP-TT-AOC22-MW10-20180915 9/15/2018 12:40 G GW 2 X BP-MH-SW4001-SOUTH-20180915 9/15/2018 10:40 X G GW 2 BP-DUP03-20180915 9/15/2018 12:00 G GW 2 X Duplicate BP-TT-SW4002-20180915 9/15/2018 X 8:30 G GW 6 MS/MSD BPS1-TT-MW309D-20180915 9/15/2018 12:25 G GW 2 X BPS1-TT-MW309I-20180915 9/15/2018 14:05 G GW 2 X BP-TT-FRB05-20180915 9/15/2018 2 X 13:00 G QC Field Reagent Blank BP-TT-FRB06-20180916 9/16/2018 13:40 G 2 X QC Field Reagent Blank BPSI-HN-MW29IR-20180916 9/16/2018 13:10 G GW 2 X BPSI-HN-MW29D-20180916 9/16/2018 12:25 G GW 2 X BP-FW-MW03-20180916 9/16/2018 2 12:50 G GW X BP-FW-MW02-20180916 9/16/2018 15:45 G GW 2 X BP-FW-MW01-20180916 9/16/2018 15:45 G 2 X GW

Total # Containers (Page 1 of 2) 60 Preservation Used: 1= ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other: Trizma Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. 1 Polson 8 LUnknown Darchive for Months □ Hammable Thisposal by Lab ☐ Yes Cooler Temp. (°C): Obs'd:_ Corr'd: Therm ID No. Custody Seals Intact: □ No Custody Seal No.: Date/Time: #/ Date/Time:9/14/18 0924 Company VAL Tetra Tech Date/Time Company: Date/Time: Date/Time: Received in Laboratory by: Relinquished by: Сотрапу: C:\All_Projects\112G08005\WE13\FI.FS\COCs\COC Vista 201980914-15-16-17.xls

Chain of Custody Record Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 (916) 673-1520 • Fax (916)673-0106 Regulatory Program: Dw **□**RCRA Vista Analytical Laboratory Client Contact Project Manager: David Brayack Site Contact: Chuck Meyer COC No: TetraTech Tel/Fax: (757) 466-4909 Lab Contact: Jade White Carrier: FedEx Page 2 of 2 5700 Lake Wright Dr Suite 102 Analysis Turnaround Time Chuck Meyer CALENDAR DAYS Norfolk, VA 23502 ☐WORKING DAYS For Lab Use Only: (757) 466-4909 PFAS (NYSDEC 21-Compo-List) EPA 537 Modified TAT if different from Below 21 Walk-in Client: 2 weeks Lab Sampling: Project Name: Bethpage Site: 2 days Job / SDG No.: PO# 1 day Type (C=Comp, G=Grab) Sample Sample # of Sample Identification Date Time Matrix Cont. Sample Specific Notes: BP-TT-FRB07-20180917 9/17/2018 2 X 11:00 G QC Field Reagent Blank BPSI-TT-MW308S-20180917 9/17/2018 GW 2 X 9:30 G BPSI-TT-MW304S-20180917 9/17/2018 10:00 G 2 X BPSI-TT-MW304D-20180917 9/17/2018 9:50 G QC 2 X BPSI-TT-MW304I1-20180917 9/17/2018 X 11:45 GW 2 G BPSI-TT-MW304I2-20180917 9/17/2018 12:00 G GW 2 X BP-DUP04-20180916 9/16/2018 12:00 X G GW 2 Duplicate CT COPY OF THE ORIGI Total # Containers (Page 2 of 2) Total # Containers (Total Pages 1 AND 2) Preservation Used: 1= ice, 2= HCl; 3= H2SQ4; 4=HNO3; 5=NaOH; 6= Other: Trizma

Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. Fed Ex Tracking: 7732 5712 1103 Archive for_ 1) WO 1803087 9119118 1414 | Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No. Custody Seal No.: Custody Seals Intact: ☐ No Date/Time: 9/19/18 0925 Company: Date/Time: / Date/Time: Company: Date/Time: Received in Laboratory by: Date/Time: Company: Relinquished by: Company: 08005\WE13\F1.F5\COCs\COC Vista 201980914-15-16-17.xks

Appendix C

Support Documents

C. Calculations for Stage 4

The results for the 4 SDG field reagent blanks were all non-detects.

SDG: 1803088 9

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	1803088						N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-FRB04-20180914	Water for QC samples	Field Reagent Blank	14-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803088						N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-FRB05-20180915	Water for QC samples	Field Reagent Blank	15-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803088						N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-FRB06-20180916	Water for QC samples	Field Reagent Blank	16-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID ATLANTIC	BETHPAGE NWIRP	1803088						N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-FRB07-20180917	Water for QC samples	Field Reagent Blank	17-Sep-18	537 MOD	Perfluoroalkyl Compounds