



**Groundwater Sample Results,  
Electronic Data Deliverable, Data Validation Report,  
and the Sample Location Report, SDG SC39093**

*Naval Station Newport  
Newport, Rhode Island*

August 2019

"1715547-BLK1","EPA 300.0","RES","1715547-BLK1","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.007","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",  
"1715547-BLK1","EPA 300.0","RES","1715547-BLK1","ESAI","14808-79-8","Sulfate as SO4","1.00","mg/l","U","0.798","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",  
"1715547-BLK1","EPA 300.0","RES","1715547-BLK1","ESAI","16887-00-6","Chloride","0.100","mg/l","U","0.0994","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",  
"1715547-BS1","EPA 300.0","RES","1715547-BS1","ESAI","14797-55-8","Nitrate as N","1.93","mg/l","0.007","MDL","TARGET","97","0.100","RDL","YES","2.00","5","5","0.100",  
"1715547-BS1","EPA 300.0","RES","1715547-BS1","ESAI","14808-79-8","Sulfate as SO4","19.7","mg/l","0.798","MDL","TARGET","98","1.00","RDL","YES","20.0","5","5","1.00",  
"1715547-BS1","EPA 300.0","RES","1715547-BS1","ESAI","16887-00-6","Chloride","19.1","mg/l","0.0994","MDL","TARGET","95","1.00","RDL","YES","20.0","5","5","0.100",  
"1715547-SRM1","EPA 300.0","RES","1715547-SRM1","ESAI","14797-55-8","Nitrate as N","2.43","mg/l","0.007","MDL","TARGET","97","0.100","RDL","YES","2.50","5","5","0.100",  
"1715547-SRM1","EPA 300.0","RES","1715547-SRM1","ESAI","14808-79-8","Sulfate as SO4","24.6","mg/l","0.798","MDL","TARGET","98","1.00","RDL","YES","25.0","5","5","1.00",  
"1715547-SRM1","EPA 300.0","RES","1715547-SRM1","ESAI","16887-00-6","Chloride","23.4","mg/l","0.0994","MDL","TARGET","94","1.00","RDL","YES","25.0","5","5","0.100",  
"1715712-BLK1","SM18-22 5210B","RES","1715712-BLK1","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD1, B","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",  
"1715712-BLK2","SM18-22 5210B","RES","1715712-BLK2","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD1, B","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",  
"1715712-BS1","SM18-22 5210B","RES","1715712-BS1","ESAI","NA","Biochemical Oxygen Demand (5-day)","174","mg/l","2.74","MDL","TARGET","88","100","RDL","YES","198","300","300","2.97",  
"1715712-SRM1","SM18-22 5210B","RES","1715712-SRM1","ESAI","NA","Biochemical Oxygen Demand (5-day)","44.0","mg/l","2.74","MDL","TARGET","96","20.0","RDL","YES","45.6","300","300","2.97",  
"1715712-SRM2","SM18-22 5210B","RES","1715712-SRM2","ESAI","NA","Biochemical Oxygen Demand (5-day)","45.0","mg/l","2.74","MDL","TARGET","99","20.0","RDL","YES","45.6","300","300","2.97",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",

"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","17060-07-0","1,2-Dichloroethane-d4","50.0","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","179601-23-1","m,p-Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","1868-53-7","Dibromofluoromethane","50.1","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","2037-26-5","Toluene-d8","48.4","g/l","-99","NA","SUR","97","-99","NA","YES","50.0","5","5","-99",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","95","-99","NA","YES","50.0","5","5","-99",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","94","-99","NA","YES","50.0","5","5","-99",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","460-00-4","4-Bromofluorobenzene","49.6","g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","103","-99","NA","YES","50.0","5","5","-99",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","56-23-5","Carbon tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","591-78-6","2-Hexanone (MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","74-83-9","Bromomethane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","74-87-3","Chloromethane","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","74-97-5","Bromochloromethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","75-00-3","Chloroethane","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","75-01-4","Vinyl chloride","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","75-09-2","Methylene chloride","2.0","g/l","U","0.7","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","75-15-0","Carbon disulfide","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","75-25-2","Bromoform","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","75-27-4","Bromodichloromethane","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"1715747-BLK1","SW846 8260C","RES","1715747-BLK1","ESAI","75-34-3","1,1-

Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "75-69-4", "Trichlorofluoromethane (Freon  
11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "76-13-1", "1,1,2-Trichlorotrifluoroethane  
(Freon 113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "78-93-3", "2-Butanone  
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "79-01-  
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "79-20-9", "Methyl  
acetate", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "79-34-5", "1,1,2,2-  
Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "87-61-6", "1,2,3-  
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "95-47-6", "o-  
Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "95-50-1", "1,2-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "96-12-8", "1,2-Dibromo-3-  
chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"1715747-BLK1", "SW846 8260C", "RES", "1715747-BLK1", "ESAI", "98-82-  
8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "100-41-  
4", "Ethylbenzene", "21.2", "g/l", "-99", "NA", "TARGET", "106", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "100-42-  
5", "Styrene", "21.4", "g/l", "-99", "NA", "TARGET", "107", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "10061-01-5", "cis-1,3-  
Dichloropropene", "19.0", "g/l", "-99", "NA", "TARGET", "95", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "10061-02-6", "trans-1,3-  
Dichloropropene", "18.7", "g/l", "-99", "NA", "TARGET", "93", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "106-46-7", "1,4-  
Dichlorobenzene", "20.0", "g/l", "-99", "NA", "TARGET", "100", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "106-93-4", "1,2-Dibromoethane  
(EDB)", "19.6", "g/l", "-99", "NA", "TARGET", "98", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "107-06-2", "1,2-  
Dichloroethane", "19.1", "g/l", "-99", "NA", "TARGET", "95", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "108-10-1", "4-Methyl-2-pentanone  
(MIBK)", "17.1", "g/l", "-99", "NA", "TARGET", "86", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "108-87-  
2", "Methylcyclohexane", "19.8", "g/l", "-99", "NA", "TARGET", "99", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "108-88-  
3", "Toluene", "19.8", "g/l", "-99", "NA", "TARGET", "99", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "108-90-  
7", "Chlorobenzene", "20.7", "g/l", "-99", "NA", "TARGET", "103", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "110-82-  
7", "Cyclohexane", "20.0", "g/l", "-99", "NA", "TARGET", "100", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BS1", "SW846 8260C", "RES", "1715747-BS1", "ESAI", "120-82-1", "1,2,4-  
Trichlorobenzene", "18.8", "g/l", "-99", "NA", "TARGET", "94", "-99", "NA", "YES", "20.0", "5", "5", "-99",

"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","124-48-1","Dibromochloromethane","19.1"," $\diamond$ g/l","-99","NA","TARGET","96","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","127-18-4","Tetrachloroethene","19.4"," $\diamond$ g/l","-99","NA","TARGET","97","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","156-59-2","cis-1,2-Dichloroethene","19.6"," $\diamond$ g/l","-99","NA","TARGET","98","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","156-60-5","trans-1,2-Dichloroethene","19.0"," $\diamond$ g/l","-99","NA","TARGET","95","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","1634-04-4","Methyl tert-butyl ether","19.2"," $\diamond$ g/l","-99","NA","TARGET","96","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","17060-07-0","1,2-Dichloroethane-d4","49.7"," $\diamond$ g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","179601-23-1","m,p-Xylene","22.3"," $\diamond$ g/l","-99","NA","TARGET","111","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","1868-53-7","Dibromofluoromethane","49.1"," $\diamond$ g/l","-99","NA","SUR","98","-99","NA","YES","50.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","2037-26-5","Toluene-d8","49.2"," $\diamond$ g/l","-99","NA","SUR","98","-99","NA","YES","50.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","3114-55-4","Chlorobenzene-d5","50.0"," $\diamond$ g/l","-99","NA","ISTD","105","-99","NA","YES","50.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0"," $\diamond$ g/l","-99","NA","ISTD","105","-99","NA","YES","50.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","460-00-4","4-Bromofluorobenzene","49.4"," $\diamond$ g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","462-06-6","Fluorobenzene","50.0"," $\diamond$ g/l","-99","NA","ISTD","107","-99","NA","YES","50.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","541-73-1","1,3-Dichlorobenzene","21.5"," $\diamond$ g/l","-99","NA","TARGET","107","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","56-23-5","Carbon tetrachloride","19.5"," $\diamond$ g/l","-99","NA","TARGET","97","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","591-78-6","2-Hexanone (MBK)","18.1"," $\diamond$ g/l","-99","NA","TARGET","91","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","67-64-1","Acetone","18.4"," $\diamond$ g/l","-99","NA","TARGET","92","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","67-66-3","Chloroform","19.7"," $\diamond$ g/l","-99","NA","TARGET","99","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","71-43-2","Benzene","20.1"," $\diamond$ g/l","-99","NA","TARGET","100","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","71-55-6","1,1,1-Trichloroethane","20.4"," $\diamond$ g/l","-99","NA","TARGET","102","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","74-83-9","Bromomethane","18.4"," $\diamond$ g/l","-99","NA","TARGET","92","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","74-87-3","Chloromethane","21.9"," $\diamond$ g/l","-99","NA","TARGET","110","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","74-97-5","Bromochloromethane","19.0"," $\diamond$ g/l","-99","NA","TARGET","95","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-00-3","Chloroethane","19.5"," $\diamond$ g/l","-99","NA","TARGET","97","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-01-4","Vinyl chloride","20.5"," $\diamond$ g/l","-99","NA","TARGET","102","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-09-2","Methylene chloride","18.6"," $\diamond$ g/l","-99","NA","TARGET","93","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-15-0","Carbon disulfide","19.0"," $\diamond$ g/l","-99","NA","TARGET","95","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-25-2","Bromoform","20.7"," $\diamond$ g/l","-99","NA","TARGET","104","-99","NA","YES","20.0","5","5","-99",

"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-27-4","Bromodichloromethane","20.9","g/l","-99","NA","TARGET","104","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-34-3","1,1-Dichloroethane","21.1","g/l","-99","NA","TARGET","106","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-35-4","1,1-Dichloroethene","19.6","g/l","-99","NA","TARGET","98","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","20.7","g/l","-99","NA","TARGET","103","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","19.1","g/l","-99","NA","TARGET","96","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","19.3","g/l","-99","NA","TARGET","96","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","78-87-5","1,2-Dichloropropane","20.2","g/l","-99","NA","TARGET","101","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","78-93-3","2-Butanone (MEK)","19.1","g/l","-99","NA","TARGET","96","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","79-00-5","1,1,2-Trichloroethane","19.5","g/l","-99","NA","TARGET","98","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","79-01-6","Trichloroethene","20.2","g/l","-99","NA","TARGET","101","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","79-20-9","Methyl acetate","16.4","g/l","-99","NA","TARGET","82","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","19.5","g/l","-99","NA","TARGET","97","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","87-61-6","1,2,3-Trichlorobenzene","18.6","g/l","-99","NA","TARGET","93","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","95-47-6","o-Xylene","21.4","g/l","-99","NA","TARGET","107","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","95-50-1","1,2-Dichlorobenzene","20.4","g/l","-99","NA","TARGET","102","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","18.1","g/l","-99","NA","TARGET","90","-99","NA","YES","20.0","5","5","-99",  
"1715747-BS1","SW846 8260C","RES","1715747-BS1","ESAI","98-82-8","Isopropylbenzene","20.7","g/l","-99","NA","TARGET","104","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","100-41-4","Ethylbenzene","20.7","g/l","-99","NA","TARGET","104","2","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","100-42-5","Styrene","20.6","g/l","-99","NA","TARGET","103","4","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","10061-01-5","cis-1,3-Dichloropropene","18.4","g/l","-99","NA","TARGET","92","3","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","10061-02-6","trans-1,3-Dichloropropene","18.6","g/l","-99","NA","TARGET","93","0.6","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","106-46-7","1,4-Dichlorobenzene","20.1","g/l","-99","NA","TARGET","100","0.5","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","106-93-4","1,2-Dibromoethane (EDB)","19.1","g/l","-99","NA","TARGET","96","3","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","107-06-2","1,2-Dichloroethane","18.8","g/l","-99","NA","TARGET","94","2","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","17.5","g/l","-99","NA","TARGET","87","2","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","108-87-2","Methylcyclohexane","18.6","g/l","-99","NA","TARGET","93","7","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","108-88-3","Toluene","18.7","g/l","-99","NA","TARGET","93","6","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","108-90-7","Chlorobenzene","19.9","g/l","-99","NA","TARGET","100","4","-99","NA","YES","20.0","5","5","-99",

"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","110-82-7","Cyclohexane","18.8","◆g/l","-99","NA","TARGET","94","6","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","120-82-1","1,2,4-Trichlorobenzene","18.5","◆g/l","-99","NA","TARGET","92","2","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","124-48-1","Dibromochloromethane","19.2","◆g/l","-99","NA","TARGET","96","0.2","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","127-18-4","Tetrachloroethene","18.6","◆g/l","-99","NA","TARGET","93","4","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","156-59-2","cis-1,2-Dichloroethene","18.4","◆g/l","-99","NA","TARGET","92","6","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","156-60-5","trans-1,2-Dichloroethene","18.5","◆g/l","-99","NA","TARGET","92","3","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","1634-04-4","Methyl tert-butyl ether","18.6","◆g/l","-99","NA","TARGET","93","3","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","17060-07-0","1,2-Dichloroethane-d4","48.5","◆g/l","-99","NA","SUR","97","-99","NA","YES","50.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","179601-23-1","m,p-Xylene","20.5","◆g/l","-99","NA","TARGET","102","8","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","1868-53-7","Dibromofluoromethane","48.4","◆g/l","-99","NA","SUR","97","-99","NA","YES","50.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","2037-26-5","Toluene-d8","47.3","◆g/l","-99","NA","SUR","95","-99","NA","YES","50.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","3114-55-4","Chlorobenzene-d5","50.0","◆g/l","-99","NA","ISTD","105","-99","NA","YES","50.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","◆g/l","-99","NA","ISTD","102","-99","NA","YES","50.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","460-00-4","4-Bromofluorobenzene","49.8","◆g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","462-06-6","Fluorobenzene","50.0","◆g/l","-99","NA","ISTD","109","-99","NA","YES","50.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","541-73-1","1,3-Dichlorobenzene","20.4","◆g/l","-99","NA","TARGET","102","5","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","56-23-5","Carbon tetrachloride","17.7","◆g/l","-99","NA","TARGET","88","10","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","591-78-6","2-Hexanone (MBK)","19.3","◆g/l","-99","NA","TARGET","97","6","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","67-64-1","Acetone","18.8","◆g/l","-99","NA","TARGET","94","3","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","67-66-3","Chloroform","19.3","◆g/l","-99","NA","TARGET","96","2","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","71-43-2","Benzene","18.9","◆g/l","-99","NA","TARGET","95","6","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","71-55-6","1,1,1-Trichloroethane","19.0","◆g/l","-99","NA","TARGET","95","7","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","74-83-9","Bromomethane","18.0","◆g/l","-99","NA","TARGET","90","2","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","74-87-3","Chloromethane","20.7","◆g/l","-99","NA","TARGET","104","6","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","74-97-5","Bromochloromethane","17.8","◆g/l","-99","NA","TARGET","89","6","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","75-00-3","Chloroethane","19.1","◆g/l","-99","NA","TARGET","95","2","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","75-01-4","Vinyl chloride","19.7","◆g/l","-99","NA","TARGET","98","4","-99","NA","YES","20.0","5","5","-99",  
"1715747-BSD1","SW846 8260C","RES","1715747-BSD1","ESAI","75-09-2","Methylene

chloride", "18.3", "g/l", "-99", "NA", "TARGET", "92", "1", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "75-15-0", "Carbon  
disulfide", "17.8", "g/l", "-99", "NA", "TARGET", "89", "6", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "75-25-  
2", "Bromoform", "19.8", "g/l", "-99", "NA", "TARGET", "99", "4", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "75-27-  
4", "Bromodichloromethane", "19.7", "g/l", "-99", "NA", "TARGET", "99", "6", "-99", "NA", "YES", "20.0", "5", "5", "-  
99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "19.7", "g/l", "-99", "NA", "TARGET", "99", "7", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "17.7", "g/l", "-99", "NA", "TARGET", "88", "10", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "75-69-4", "Trichlorofluoromethane (Freon  
11)", "18.6", "g/l", "-99", "NA", "TARGET", "93", "11", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "17.5", "g/l", "-99", "NA", "TARGET", "87", "9", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "76-13-1", "1,1,2-Trichlorotrifluoroethane  
(Freon 113)", "18.2", "g/l", "-99", "NA", "TARGET", "91", "5", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "18.6", "g/l", "-99", "NA", "TARGET", "93", "8", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "78-93-3", "2-Butanone  
(MEK)", "21.5", "g/l", "-99", "NA", "TARGET", "108", "12", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "19.4", "g/l", "-99", "NA", "TARGET", "97", "0.9", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "79-01-  
6", "Trichloroethene", "18.2", "g/l", "-99", "NA", "TARGET", "91", "11", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "79-20-9", "Methyl  
acetate", "17.5", "g/l", "-99", "NA", "TARGET", "88", "7", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "79-34-5", "1,1,2,2-  
Tetrachloroethane", "19.9", "g/l", "-99", "NA", "TARGET", "99", "2", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "87-61-6", "1,2,3-  
Trichlorobenzene", "18.7", "g/l", "-99", "NA", "TARGET", "93", "0.8", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "95-47-6", "o-  
Xylene", "20.5", "g/l", "-99", "NA", "TARGET", "103", "4", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "95-50-1", "1,2-  
Dichlorobenzene", "20.9", "g/l", "-99", "NA", "TARGET", "105", "2", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "96-12-8", "1,2-Dibromo-3-  
chloropropane", "19.6", "g/l", "-99", "NA", "TARGET", "98", "8", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715747-BSD1", "SW846 8260C", "RES", "1715747-BSD1", "ESAI", "98-82-  
8", "Isopropylbenzene", "19.9", "g/l", "-99", "NA", "TARGET", "100", "4", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715864-BLK1", "Mod EPA 3C/SOP RSK-175", "RES", "1715864-BLK1", "ESAI", "74-82-  
8", "Methane", "2.20", "g/l", "U", "2.16", "MDL", "TARGET", "2.20", "RDL", "YES", "-99", "10", "10", "2.20",  
"1715864-BLK1", "Mod EPA 3C/SOP RSK-175", "RES", "1715864-BLK1", "ESAI", "74-84-  
0", "Ethane", "5.00", "g/l", "U", "3.48", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "10", "10", "5.00",  
"1715864-BS1", "Mod EPA 3C/SOP RSK-175", "RES", "1715864-BS1", "ESAI", "74-82-  
8", "Methane", "453", "mg/l", "-99", "NA", "TARGET", "91", "-99", "NA", "YES", "500", "10", "10", "-99",  
"1715864-BS1", "Mod EPA 3C/SOP RSK-175", "RES", "1715864-BS1", "ESAI", "74-84-  
0", "Ethane", "517", "mg/l", "-99", "NA", "TARGET", "103", "-99", "NA", "YES", "500", "10", "10", "-99",  
"1715919-BLK1", "SW846 8270D", "RES", "1715919-BLK1", "ESAI", "1146-65-2", "Naphthalene-  
d8", "40.0", "g/ml", "-99", "NA", "ISTD", "118", "-99", "NA", "YES", "40.0", "980", "1", "-99",  
"1715919-BLK1", "SW846 8270D", "RES", "1715919-BLK1", "ESAI", "120-12-  
7", "Anthracene", "1.02", "g/l", "U", "0.620", "MDL", "TARGET", "5.10", "RDL", "YES", "-99", "980", "1", "1.02",  
"1715919-BLK1", "SW846 8270D", "RES", "1715919-BLK1", "ESAI", "129-00-  
0", "Pyrene", "1.02", "g/l", "U", "0.622", "MDL", "TARGET", "5.10", "RDL", "YES", "-99", "980", "1", "1.02",  
"1715919-BLK1", "SW846 8270D", "RES", "1715919-BLK1", "ESAI", "15067-26-2", "Acenaphthene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "116", "-99", "NA", "YES", "40.0", "980", "1", "-99",  
"1715919-BLK1", "SW846 8270D", "RES", "1715919-BLK1", "ESAI", "1517-22-2", "Phenanthrene-



d10,"40.0","g/ml","-99","NA","ISTD","115","-99","NA","YES","40.0","980","1","-99",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","1520-96-3","Perylene-  
d12,"40.0","g/ml","-99","NA","ISTD","115","-99","NA","YES","40.0","980","1","-99",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","1718-51-0","Terphenyl-  
dl4","39.9","g/l","-99","NA","SUR","78","-99","NA","YES","51.0","980","1","-99",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","1719-03-5","Chrysene-  
d12,"40.0","g/ml","-99","NA","ISTD","118","-99","NA","YES","40.0","980","1","-99",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","191-24-2","Benzo (g,h,i)  
perylene","1.02","g/l","U","0.541","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","193-39-5","Indeno (1,2,3-cd)  
pyrene","1.02","g/l","U","0.592","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","205-99-2","Benzo (b)  
fluoranthene","1.02","g/l","U","0.446","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","206-44-  
0","Fluoranthene","1.02","g/l","U","0.651","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","207-08-9","Benzo (k)  
fluoranthene","1.02","g/l","U","0.490","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","208-96-  
8","Acenaphthylene","1.02","g/l","U","0.697","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","218-01-  
9","Chrysene","1.02","g/l","U","0.543","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","321-60-8","2-  
Fluorobiphenyl","33.2","g/l","-99","NA","SUR","65","-99","NA","YES","51.0","980","1","-99",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","4165-60-0","Nitrobenzene-  
d5","32.4","g/l","-99","NA","SUR","64","-99","NA","YES","51.0","980","1","-99",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","50-32-8","Benzo (a)  
pyrene","1.02","g/l","U","0.573","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","53-70-3","Dibenzo (a,h)  
anthracene","1.02","g/l","U","0.459","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","56-55-3","Benzo (a)  
anthracene","1.02","g/l","U","0.547","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","83-32-  
9","Acenaphthene","1.02","g/l","U","0.705","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","85-01-  
8","Phenanthrene","1.02","g/l","U","0.598","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","86-73-  
7","Fluorene","1.02","g/l","U","0.624","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","90-12-0","1-  
Methylnaphthalene","1.02","g/l","U","0.748","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","91-20-  
3","Naphthalene","1.02","g/l","U","0.699","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","91-57-6","2-  
Methylnaphthalene","1.02","g/l","U","0.586","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1146-65-2","Naphthalene-  
d8,"40.0","g/ml","-99","NA","ISTD","127","-99","NA","YES","40.0","990","1","-99",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","120-12-  
7","Anthracene","34.8","g/l","0.614","MDL","TARGET","69","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","129-00-  
0","Pyrene","33.5","g/l","0.616","MDL","TARGET","66","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","15067-26-2","Acenaphthene-  
d10,"40.0","g/ml","-99","NA","ISTD","127","-99","NA","YES","40.0","990","1","-99",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1517-22-2","Phenanthrene-  
d10,"40.0","g/ml","-99","NA","ISTD","121","-99","NA","YES","40.0","990","1","-99",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1520-96-3","Perylene-

d12,"40.0","◆g/ml","-99","NA","ISTD","128","-99","NA","YES","40.0","990","1","-99",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1718-51-0","Terphenyl-  
dl4","37.8","◆g/l","-99","NA","SUR","75","-99","NA","YES","50.5","990","1","-99",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1719-03-5","Chrysene-  
d12","40.0","◆g/ml","-99","NA","ISTD","130","-99","NA","YES","40.0","990","1","-99",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","191-24-2","Benzo (g,h,i)  
perylene","33.3","◆g/l","0.535","MDL","TARGET","66","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","193-39-5","Indeno (1,2,3-cd)  
pyrene","36.0","◆g/l","0.586","MDL","TARGET","71","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","205-99-2","Benzo (b)  
fluoranthene","36.8","◆g/l","0.441","MDL","TARGET","73","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","206-44-  
0","Fluoranthene","35.9","◆g/l","0.644","MDL","TARGET","71","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","207-08-9","Benzo (k)  
fluoranthene","33.0","◆g/l","0.485","MDL","TARGET","65","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","208-96-  
8","Acenaphthylene","30.3","◆g/l","0.690","MDL","TARGET","60","5.05","RDL","YES","50.5","990","1","1.  
01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","218-01-  
9","Chrysene","33.5","◆g/l","0.537","MDL","TARGET","66","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","321-60-8","2-  
Fluorobiphenyl","32.0","◆g/l","-99","NA","SUR","63","-99","NA","YES","50.5","990","1","-99",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","4165-60-0","Nitrobenzene-  
d5","31.5","◆g/l","-99","NA","SUR","62","-99","NA","YES","50.5","990","1","-99",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","50-32-8","Benzo (a)  
pyrene","35.4","◆g/l","0.568","MDL","TARGET","70","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","53-70-3","Dibenzo (a,h)  
anthracene","36.9","◆g/l","0.455","MDL","TARGET","73","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","56-55-3","Benzo (a)  
anthracene","34.1","◆g/l","0.541","MDL","TARGET","68","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","83-32-  
9","Acenaphthene","30.6","◆g/l","0.698","MDL","TARGET","61","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","85-01-  
8","Phenanthrene","33.3","◆g/l","0.592","MDL","TARGET","66","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","86-73-  
7","Fluorene","31.5","◆g/l","0.618","MDL","TARGET","62","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","90-12-0","1-  
Methylnaphthalene","32.7","◆g/l","0.740","MDL","TARGET","65","5.05","RDL","YES","50.5","990","1","1.0  
1",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","91-20-  
3","Naphthalene","28.8","◆g/l","0.692","MDL","TARGET","57","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","91-57-6","2-  
Methylnaphthalene","36.4","◆g/l","0.580","MDL","TARGET","72","5.05","RDL","YES","50.5","990","1","1.0  
1",  
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","1146-65-2","Naphthalene-  
d8","40.0","◆g/ml","-99","NA","ISTD","118","-99","NA","YES","40.0","990","1","-99",  
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","120-12-  
7","Anthracene","32.1","◆g/l","0.614","MDL","TARGET","64","8","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","129-00-  
0","Pyrene","31.4","◆g/l","0.616","MDL","TARGET","62","6","5.05","RDL","YES","50.5","990","1","1.01",  
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","15067-26-2","Acenaphthene-  
d10","40.0","◆g/ml","-99","NA","ISTD","118","-99","NA","YES","40.0","990","1","-99",  
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","1517-22-2","Phenanthrene-

d10", "40.0", "◆g/ml", "-99", "NA", "ISTD", "113", "-99", "NA", "YES", "40.0", "990", "1", "-99",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "1520-96-3", "Perylene-  
d12", "40.0", "◆g/ml", "-99", "NA", "ISTD", "119", "-99", "NA", "YES", "40.0", "990", "1", "-99",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "1718-51-0", "Terphenyl-  
dl4", "36.3", "◆g/l", "-99", "NA", "SUR", "72", "-99", "NA", "YES", "50.5", "990", "1", "-99",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "1719-03-5", "Chrysene-  
d12", "40.0", "◆g/ml", "-99", "NA", "ISTD", "121", "-99", "NA", "YES", "40.0", "990", "1", "-99",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "191-24-2", "Benzo (g,h,i)  
perylene", "30.9", "◆g/l", "0.535", "MDL", "TARGET", "61", "7", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "193-39-5", "Indeno (1,2,3-cd)  
pyrene", "33.0", "◆g/l", "0.586", "MDL", "TARGET", "65", "8", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "205-99-2", "Benzo (b)  
fluoranthene", "32.8", "◆g/l", "0.441", "MDL", "TARGET", "65", "11", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "206-44-  
0", "Fluoranthene", "33.5", "◆g/l", "0.644", "MDL", "TARGET", "66", "7", "5.05", "RDL", "YES", "50.5", "990", "1", "1.  
01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "207-08-9", "Benzo (k)  
fluoranthene", "33.0", "◆g/l", "0.485", "MDL", "TARGET", "65", "0.2", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "208-96-  
8", "Acenaphthylene", "28.7", "◆g/l", "0.690", "MDL", "TARGET", "57", "5", "5.05", "RDL", "YES", "50.5", "990", "1",  
"1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "218-01-  
9", "Chrysene", "32.0", "◆g/l", "0.537", "MDL", "TARGET", "63", "5", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "321-60-8", "2-  
Fluorobiphenyl", "29.6", "◆g/l", "-99", "NA", "SUR", "59", "-99", "NA", "YES", "50.5", "990", "1", "-99",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "4165-60-0", "Nitrobenzene-  
d5", "29.2", "◆g/l", "-99", "NA", "SUR", "58", "-99", "NA", "YES", "50.5", "990", "1", "-99",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "50-32-8", "Benzo (a)  
pyrene", "33.9", "◆g/l", "0.568", "MDL", "TARGET", "67", "4", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "53-70-3", "Dibenzo (a,h)  
anthracene", "34.1", "◆g/l", "0.455", "MDL", "TARGET", "67", "8", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "56-55-3", "Benzo (a)  
anthracene", "32.3", "◆g/l", "0.541", "MDL", "TARGET", "64", "5", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "83-32-  
9", "Acenaphthene", "29.1", "◆g/l", "0.698", "MDL", "TARGET", "58", "5", "5.05", "RDL", "YES", "50.5", "990", "1", "1.  
.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "85-01-  
8", "Phenanthrene", "30.7", "◆g/l", "0.592", "MDL", "TARGET", "61", "8", "5.05", "RDL", "YES", "50.5", "990", "1", "1.  
.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "86-73-  
7", "Fluorene", "29.7", "◆g/l", "0.618", "MDL", "TARGET", "59", "6", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "90-12-0", "1-  
Methylnaphthalene", "30.4", "◆g/l", "0.740", "MDL", "TARGET", "60", "7", "5.05", "RDL", "YES", "50.5", "990", "1", "  
1.01",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "91-20-  
3", "Naphthalene", "26.7", "◆g/l", "0.692", "MDL", "TARGET", "53", "7", "5.05", "RDL", "YES", "50.5", "990", "1", "1.0  
1",  
"1715919-BSD1", "SW846 8270D", "RES", "1715919-BSD1", "ESAI", "91-57-6", "2-  
Methylnaphthalene", "33.3", "◆g/l", "0.580", "MDL", "TARGET", "66", "9", "5.05", "RDL", "YES", "50.5", "990", "1", "  
1.01",  
"1715920-BLK1", "SW846 8081B", "RES", "1715920-BLK1", "ESAI", "1024-57-3", "Heptachlor  
epoxide", "0.021", "◆g/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "970", "10", "0.021",  
"1715920-BLK1", "SW846 8081B", "RES", "1715920-BLK1", "ESAI", "1024-57-3", "Heptachlor epoxide  
[2C]", "0.021", "◆g/l", "U", "0.015", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "970", "10", "0.021",  
"1715920-BLK1", "SW846 8081B", "RES", "1715920-BLK1", "ESAI", "1031-07-8", "Endosulfan

sulfate","0.021","g/l","U","0.020","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","1031-07-8","Endosulfan sulfate  
[2C]","0.021","g/l","U","0.017","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl  
(Sr)","0.218","g/l","-99","NA","SUR","106","-99","NA","YES","0.206","970","10","-99",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl  
(Sr) [2C]","0.231","g/l","-99","NA","SUR","112","-99","NA","YES","0.206","970","10","-99",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","15972-60-  
8","Alachlor","0.021","g/l","U","0.019","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","15972-60-8","Alachlor  
[2C]","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","2051-24-3","Decachlorobiphenyl  
(Sr)","0.205","g/l","-99","NA","SUR","99","-99","NA","YES","0.206","970","10","-99",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)  
[2C]","0.168","g/l","-99","NA","SUR","82","-99","NA","YES","0.206","970","10","-99",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","309-00-  
2","Aldrin","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","309-00-2","Aldrin  
[2C]","0.021","g/l","U","0.019","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-84-6","alpha-  
BHC","0.021","g/l","U","0.012","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-84-6","alpha-BHC  
[2C]","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-85-7","beta-  
BHC","0.021","g/l","U","0.015","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-85-7","beta-BHC  
[2C]","0.021","g/l","U","0.020","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-86-8","delta-  
BHC","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-86-8","delta-BHC  
[2C]","0.021","g/l","U","0.020","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","33213-65-9","Endosulfan  
II","0.021","g/l","U","0.021","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","33213-65-9","Endosulfan II  
[2C]","0.021","g/l","U","0.016","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","50-29-3","4,4'-DDT  
(p,p')","0.031","g/l","U","0.018","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.031",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","50-29-3","4,4'-DDT (p,p')  
[2C]","0.031","g/l","U","0.022","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.031",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","5103-71-9","alpha-  
Chlordane","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","5103-71-9","alpha-Chlordane  
[2C]","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","5103-74-2","Chlordane (gamma)  
(trans)","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","5103-74-2","Chlordane (gamma)(trans)  
[2C]","0.021","g/l","U","0.015","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","53494-70-5","Endrin  
ketone","0.021","g/l","U","0.018","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","53494-70-5","Endrin ketone  
[2C]","0.021","g/l","U","0.019","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","58-89-9","gamma-BHC  
(Lindane)","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","58-89-9","gamma-BHC (Lindane)  
[2C]","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","60-57-  
1","Dieldrin","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",

"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","60-57-1","Dieldrin  
[2C]","0.021","g/l","U","0.019","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-20-  
8","Endrin","0.021","g/l","U","0.020","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-20-8","Endrin  
[2C]","0.021","g/l","U","0.020","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-43-  
5","Methoxychlor","0.021","g/l","U","0.019","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.0  
21",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-43-5","Methoxychlor  
[2C]","0.021","g/l","U","0.019","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-54-8","4,4'-DDD  
(p,p')","0.021","g/l","U","0.019","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-54-8","4,4'-DDD (p,p')  
[2C]","0.021","g/l","U","0.018","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-55-9","4,4'-DDE  
(p,p')","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-55-9","4,4'-DDE (p,p')  
[2C]","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","7421-93-4","Endrin  
aldehyde","0.021","g/l","U","0.020","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","7421-93-4","Endrin aldehyde  
[2C]","0.021","g/l","U","0.018","MDL","TARGET","0.041","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","76-44-  
8","Heptachlor","0.021","g/l","U","0.020","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","76-44-8","Heptachlor  
[2C]","0.021","g/l","U","0.020","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene  
(IS)","0.020","g/ml","-99","NA","ISTD","81","-99","NA","YES","10.0","970","10","-99",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)  
[2C]","0.020","g/ml","-99","NA","ISTD","88","-99","NA","YES","10.0","970","10","-99",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","959-98-8","Endosulfan  
I","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","959-98-8","Endosulfan I  
[2C]","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","970","10","0.021",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","1024-57-3","Heptachlor  
epoxide","0.402","g/l","0.016","MDL","TARGET","79","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","1024-57-3","Heptachlor epoxide  
[2C]","0.403","g/l","0.015","MDL","TARGET","79","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","1031-07-8","Endosulfan  
sulfate","0.418","g/l","0.020","MDL","TARGET","82","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","1031-07-8","Endosulfan sulfate  
[2C]","0.489","g/l","0.017","MDL","TARGET","96","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl  
(Sr)","0.197","g/l","-99","NA","SUR","97","-99","NA","YES","0.204","980","10","-99",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)  
[2C]","0.204","g/l","-99","NA","SUR","100","-99","NA","YES","0.204","980","10","-99",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","15972-60-  
8","Alachlor","0.453","g/l","0.019","MDL","TARGET","89","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","15972-60-8","Alachlor  
[2C]","0.453","g/l","0.018","MDL","TARGET","89","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","2051-24-3","Decachlorobiphenyl  
(Sr)","0.183","g/l","-99","NA","SUR","90","-99","NA","YES","0.204","980","10","-99",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)  
[2C]","0.147","g/l","-99","NA","SUR","72","-99","NA","YES","0.204","980","10","-99",

"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","309-00-2","Aldrin","0.402","g/l","0.016","MDL","TARGET","79","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","309-00-2","Aldrin  
[2C]","0.393","g/l","0.019","MDL","TARGET","77","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-84-6","alpha-BHC","0.403","g/l","0.012","MDL","TARGET","79","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-84-6","alpha-BHC  
[2C]","0.409","g/l","0.018","MDL","TARGET","80","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-85-7","beta-BHC","0.426","g/l","0.015","MDL","TARGET","83","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-85-7","beta-BHC  
[2C]","0.472","g/l","0.019","MDL","TARGET","93","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-86-8","delta-BHC","0.420","g/l","0.016","MDL","TARGET","82","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-86-8","delta-BHC  
[2C]","0.432","g/l","0.020","MDL","TARGET","85","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","33213-65-9","Endosulfan II","0.410","g/l","0.020","MDL","TARGET","80","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","33213-65-9","Endosulfan II  
[2C]","0.489","g/l","0.016","MDL","TARGET","96","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","50-29-3","4,4'-DDT (p,p')","0.273","g/l","0.018","MDL","TARGET","54","0.041","RDL","YES","0.510","980","10","0.031",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","50-29-3","4,4'-DDT (p,p')  
[2C]","0.397","g/l","0.022","MDL","TARGET","78","0.041","RDL","YES","0.510","980","10","0.031",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","5103-71-9","alpha-Chlordane","0.417","g/l","0.016","MDL","TARGET","82","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","5103-71-9","alpha-Chlordane  
[2C]","0.421","g/l","0.017","MDL","TARGET","83","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","5103-74-2","Chlordane (gamma (trans))","0.431","g/l","0.016","MDL","TARGET","85","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","5103-74-2","Chlordane (gamma (trans))  
[2C]","0.418","g/l","0.014","MDL","TARGET","82","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","53494-70-5","Endrin ketone","0.347","g/l","0.018","MDL","TARGET","68","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","53494-70-5","Endrin ketone  
[2C]","0.423","g/l","0.018","MDL","TARGET","83","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","58-89-9","gamma-BHC (Lindane)","0.393","g/l","0.018","MDL","TARGET","77","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","58-89-9","gamma-BHC (Lindane)  
[2C]","0.415","g/l","0.018","MDL","TARGET","81","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","60-57-1","Dieldrin","0.399","g/l","0.017","MDL","TARGET","78","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","60-57-1","Dieldrin  
[2C]","0.390","g/l","0.019","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-20-8","Endrin","0.485","g/l","0.020","MDL","TARGET","95","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-20-8","Endrin  
[2C]","0.497","g/l","0.020","MDL","TARGET","98","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-43-5","Methoxychlor","0.392","g/l","0.019","MDL","TARGET","77","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-43-5","Methoxychlor  
[2C]","0.438","g/l","0.019","MDL","TARGET","86","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-54-8","4,4'-DDD (p,p')","0.410","g/l","0.019","MDL","TARGET","80","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-54-8","4,4'-DDD (p,p')

[2C]","0.474","g/l","0.018","MDL","TARGET","93","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-55-9","4,4'-DDE  
(p,p)","0.389","g/l","0.018","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-55-9","4,4'-DDE (p,p)  
[2C]","0.386","g/l","0.018","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","7421-93-4","Endrin  
aldehyde","0.437","g/l","0.020","MDL","TARGET","86","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","7421-93-4","Endrin aldehyde  
[2C]","0.503","g/l","0.018","MDL","TARGET","99","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","76-44-  
8","Heptachlor","0.407","g/l","0.020","MDL","TARGET","80","0.020","RDL","YES","0.510","980","10","0.  
020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","76-44-8","Heptachlor  
[2C]","0.460","g/l","0.020","MDL","TARGET","90","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene  
(IS)","0.020","g/ml","-99","NA","ISTD","93","-99","NA","YES","10.0","980","10","-99",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)  
[2C]","0.020","g/ml","-99","NA","ISTD","101","-99","NA","YES","10.0","980","10","-99",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","959-98-8","Endosulfan  
I","0.412","g/l","0.017","MDL","TARGET","81","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","959-98-8","Endosulfan I  
[2C]","0.447","g/l","0.016","MDL","TARGET","88","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","1024-57-3","Heptachlor  
epoxide","0.384","g/l","0.016","MDL","TARGET","75","5","0.020","RDL","YES","0.510","980","10","0.020"  
,"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","1024-57-3","Heptachlor epoxide  
[2C]","0.395","g/l","0.015","MDL","TARGET","77","2","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","1031-07-8","Endosulfan  
sulfate","0.402","g/l","0.020","MDL","TARGET","79","4","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","1031-07-8","Endosulfan sulfate  
[2C]","0.493","g/l","0.017","MDL","TARGET","97","0.8","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl  
(Sr)","0.191","g/l","-99","NA","SUR","94","-99","NA","YES","0.204","980","10","-99",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl  
(Sr) [2C]","0.207","g/l","-99","NA","SUR","101","-99","NA","YES","0.204","980","10","-99",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","15972-60-  
8","Alachlor","0.414","g/l","0.019","MDL","TARGET","81","9","0.020","RDL","YES","0.510","980","10","0.  
020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","15972-60-8","Alachlor  
[2C]","0.482","g/l","0.018","MDL","TARGET","94","6","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","2051-24-3","Decachlorobiphenyl  
(Sr)","0.212","g/l","-99","NA","SUR","104","-99","NA","YES","0.204","980","10","-99",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)  
[2C]","0.150","g/l","-99","NA","SUR","73","-99","NA","YES","0.204","980","10","-99",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","309-00-  
2","Aldrin","0.381","g/l","0.016","MDL","TARGET","75","5","0.020","RDL","YES","0.510","980","10","0.02  
0",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","309-00-2","Aldrin  
[2C]","0.383","g/l","0.019","MDL","TARGET","75","2","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-84-6","alpha-  
BHC","0.378","g/l","0.012","MDL","TARGET","74","6","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-84-6","alpha-BHC  
[2C]","0.393","g/l","0.018","MDL","TARGET","77","4","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-85-7","beta-  
BHC","0.390","g/l","0.015","MDL","TARGET","76","9","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-85-7","beta-BHC  
[2C]","0.446","g/l","0.019","MDL","TARGET","87","6","0.020","RDL","YES","0.510","980","10","0.020",

"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-86-8","delta-BHC","0.369","g/l","0.016","MDL","TARGET","72","13","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-86-8","delta-BHC [2C]","0.406","g/l","0.020","MDL","TARGET","80","6","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","33213-65-9","Endosulfan II","0.413","g/l","0.020","MDL","TARGET","81","0.7","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","33213-65-9","Endosulfan II [2C]","0.469","g/l","0.016","MDL","TARGET","92","4","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","50-29-3","4,4'-DDT (p,p')","0.266","g/l","0.018","MDL","TARGET","52","3","0.041","RDL","YES","0.510","980","10","0.031",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","50-29-3","4,4'-DDT (p,p') [2C]","0.345","g/l","0.022","MDL","TARGET","68","14","0.041","RDL","YES","0.510","980","10","0.031",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","5103-71-9","alpha-Chlordane","0.397","g/l","0.016","MDL","TARGET","78","5","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","5103-71-9","alpha-Chlordane [2C]","0.417","g/l","0.017","MDL","TARGET","82","1","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","5103-74-2","Chlordane (gamma (trans))","0.417","g/l","0.016","MDL","TARGET","82","3","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","5103-74-2","Chlordane (gamma)(trans) [2C]","0.411","g/l","0.014","MDL","TARGET","81","2","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","53494-70-5","Endrin ketone","0.338","g/l","0.018","MDL","TARGET","66","3","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","53494-70-5","Endrin ketone [2C]","0.405","g/l","0.018","MDL","TARGET","79","4","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","58-89-9","gamma-BHC (Lindane)","0.368","g/l","0.018","MDL","TARGET","72","7","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.402","g/l","0.018","MDL","TARGET","79","3","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","60-57-1","Dieldrin","0.387","g/l","0.017","MDL","TARGET","76","3","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","60-57-1","Dieldrin [2C]","0.385","g/l","0.019","MDL","TARGET","75","1","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-20-8","Endrin","0.470","g/l","0.020","MDL","TARGET","92","3","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-20-8","Endrin [2C]","0.475","g/l","0.020","MDL","TARGET","93","5","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-43-5","Methoxychlor","0.375","g/l","0.019","MDL","TARGET","73","4","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-43-5","Methoxychlor [2C]","0.387","g/l","0.019","MDL","TARGET","76","12","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-54-8","4,4'-DDD (p,p')","0.406","g/l","0.019","MDL","TARGET","80","0.9","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-54-8","4,4'-DDD (p,p') [2C]","0.480","g/l","0.018","MDL","TARGET","94","1","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-55-9","4,4'-DDE (p,p')","0.380","g/l","0.018","MDL","TARGET","74","2","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-55-9","4,4'-DDE (p,p') [2C]","0.371","g/l","0.018","MDL","TARGET","73","4","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","7421-93-4","Endrin aldehyde","0.425","g/l","0.020","MDL","TARGET","83","3","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","7421-93-4","Endrin aldehyde



[2C]","0.489","g/l","0.018","MDL","TARGET","96","3","0.041","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","76-44-8","Heptachlor","0.380","g/l","0.020","MDL","TARGET","75","7","0.020","RDL","YES","0.510","980","10",  
0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","76-44-8","Heptachlor  
[2C]","0.451","g/l","0.020","MDL","TARGET","88","2","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene  
(IS)","0.020","g/ml","-99","NA","ISTD","89","-99","NA","YES","10.0","980","10","-99",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)  
[2C]","0.020","g/ml","-99","NA","ISTD","93","-99","NA","YES","10.0","980","10","-99",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","959-98-8","Endosulfan  
I","0.396","g/l","0.017","MDL","TARGET","78","4","0.020","RDL","YES","0.510","980","10","0.020",  
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","959-98-8","Endosulfan I  
[2C]","0.432","g/l","0.016","MDL","TARGET","85","4","0.020","RDL","YES","0.510","980","10","0.020",  
"1715978-BLK1","SM2320B (97, 11)","RES","1715978-BLK1","ESAI","NA","Total Alkalinity","3.00","mg/l  
CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1715978-BLK2","SM2320B (97, 11)","RES","1715978-BLK2","ESAI","NA","Total Alkalinity","3.00","mg/l  
CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1715978-BLK3","SM2320B (97, 11)","RES","1715978-BLK3","ESAI","NA","Total Alkalinity","3.00","mg/l  
CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1715978-BLK4","SM2320B (97, 11)","RES","1715978-BLK4","ESAI","NA","Total Alkalinity","3.00","mg/l  
CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1715978-BS1","SM2320B (97, 11)","RES","1715978-BS1","ESAI","NA","Total Alkalinity","52.4","mg/l  
CaCO3","1.05","MDL","TARGET","105","4.00","RDL","YES","50.0","50","50","3.00",  
"1715978-BS2","SM2320B (97, 11)","RES","1715978-BS2","ESAI","NA","Total Alkalinity","51.7","mg/l  
CaCO3","1.05","MDL","TARGET","103","4.00","RDL","YES","50.0","50","50","3.00",  
"1715978-BS3","SM2320B (97, 11)","RES","1715978-BS3","ESAI","NA","Total Alkalinity","51.5","mg/l  
CaCO3","1.05","MDL","TARGET","103","4.00","RDL","YES","50.0","50","50","3.00",  
"1715978-BS4","SM2320B (97, 11)","RES","1715978-BS4","ESAI","NA","Total Alkalinity","51.7","mg/l  
CaCO3","1.05","MDL","TARGET","103","4.00","RDL","YES","50.0","50","50","3.00",  
"1715978-SRM1","SM2320B (97, 11)","RES","1715978-SRM1","ESAI","NA","Total Alkalinity","131","mg/l  
CaCO3","3.50","MDL","TARGET","105","13.3","RDL","YES","124","15","50","10.0",  
"1716147-BLK1","SM5310B (00, 11)","RES","1716147-BLK1","ESAI","NA","Total Organic  
Carbon","0.500","mg/l","U","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500",  
"1716147-BS1","SM5310B (00, 11)","RES","1716147-BS1","ESAI","NA","Total Organic  
Carbon","13.2","mg/l","0.238","MDL","TARGET","88","1.00","RDL","YES","15.0","40","40","0.500",  
"1716147-CCB1","SM5310B (00, 11)","RES","1716147-CCB1","ESAI","NA","Total Organic  
Carbon","0.148","mg/l","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",  
"1716147-CCB2","SM5310B (00, 11)","RES","1716147-CCB2","ESAI","NA","Total Organic  
Carbon","0.129","mg/l","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",  
"1716147-CCB3","SM5310B (00, 11)","RES","1716147-CCB3","ESAI","NA","Total Organic  
Carbon","0.121","mg/l","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",  
"1716147-CCV1","SM5310B (00, 11)","RES","1716147-CCV1","ESAI","NA","Total Organic  
Carbon","13.4","mg/l","0.238","MDL","TARGET","89","1.00","RDL","YES","15.0","40","40","0.500",  
"1716147-CCV2","SM5310B (00, 11)","RES","1716147-CCV2","ESAI","NA","Total Organic  
Carbon","13.5","mg/l","0.238","MDL","TARGET","90","1.00","RDL","YES","15.0","40","40","0.500",  
"1716147-CCV3","SM5310B (00, 11)","RES","1716147-CCV3","ESAI","NA","Total Organic  
Carbon","13.5","mg/l","0.238","MDL","TARGET","90","1.00","RDL","YES","15.0","40","40","0.500",  
"1716147-SRM1","SM5310B (00, 11)","RES","1716147-SRM1","ESAI","NA","Total Organic  
Carbon","13.4","mg/l","0.238","MDL","TARGET","92","1.00","RDL","YES","14.6","40","40","0.500",  
"1716277-BLK1","SW846 6010C","RES","1716277-BLK1","ESAI","7429-90-  
5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.05  
00",  
"1716277-BLK1","SW846 6010C","RES","1716277-BLK1","ESAI","7439-89-  
6","Iron","0.0300","mg/l","U","0.0089","MDL","TARGET","0.0800","RDL","YES","-99","50","50","0.0300",  
"1716277-BLK1","SW846 6010C","RES","1716277-BLK1","ESAI","7439-95-  
4","Magnesium","0.0100","mg/l","U","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0

100",  
"1716277-BLK1","SW846 6010C","RES","1716277-BLK1","ESAI","7440-23-5","Sodium","0.164","mg/l","J","0.0785","MDL","TARGET",,"0.500","RDL","YES","-99",,"50","50","0.250",  
"1716277-BLK1","SW846 6010C","RES","1716277-BLK1","ESAI","7440-70-2","Calcium","0.0178","mg/l","J","0.0142","MDL","TARGET",,"0.200","RDL","YES","-99",,"50","50","0.0500",  
"1716277-BS1","SW846 6010C","RES","1716277-BS1","ESAI","7429-90-5","Aluminum","2.54","mg/l","0.0206","MDL","TARGET","102",,"0.0500","RDL","YES","2.50",,"50","50","0.0500",  
"1716277-BS1","SW846 6010C","RES","1716277-BS1","ESAI","7439-89-6","Iron","2.59","mg/l",,"0.0089","MDL","TARGET","104",,"0.0800","RDL","YES","2.50",,"50","50","0.0300",  
"1716277-BS1","SW846 6010C","RES","1716277-BS1","ESAI","7439-95-4","Magnesium","2.42","mg/l",,"0.0088","MDL","TARGET","97",,"0.0200","RDL","YES","2.50",,"50","50","0.0100",  
"1716277-BS1","SW846 6010C","RES","1716277-BS1","ESAI","7440-23-5","Sodium","11.7","mg/l",,"0.0785","MDL","TARGET","94",,"0.500","RDL","YES","12.5",,"50","50","0.250",  
"1716277-BS1","SW846 6010C","RES","1716277-BS1","ESAI","7440-70-2","Calcium","12.2","mg/l",,"0.0142","MDL","TARGET","97",,"0.200","RDL","YES","12.5",,"50","50","0.0500",  
"1716277-BSD1","SW846 6010C","RES","1716277-BSD1","ESAI","7429-90-5","Aluminum","2.54","mg/l",,"0.0206","MDL","TARGET","102",,"0.2","0.0500","RDL","YES","2.50",,"50","50",  
"0.0500",  
"1716277-BSD1","SW846 6010C","RES","1716277-BSD1","ESAI","7439-89-6","Iron","2.63","mg/l",,"0.0089","MDL","TARGET","105",,"1","0.0800","RDL","YES","2.50",,"50","50","0.0300",  
",  
"1716277-BSD1","SW846 6010C","RES","1716277-BSD1","ESAI","7439-95-4","Magnesium","2.43","mg/l",,"0.0088","MDL","TARGET","97",,"0.5","0.0200","RDL","YES","2.50",,"50","50",  
"0.0100",  
"1716277-BSD1","SW846 6010C","RES","1716277-BSD1","ESAI","7440-23-5","Sodium","11.7","mg/l",,"0.0785","MDL","TARGET","93",,"0.3","0.500","RDL","YES","12.5",,"50","50","0.250",  
"1716277-BSD1","SW846 6010C","RES","1716277-BSD1","ESAI","7440-70-2","Calcium","12.2","mg/l",,"0.0142","MDL","TARGET","98",,"0.2","0.200","RDL","YES","12.5",,"50","50","0.0500",  
"1716279-BLK1","EPA 245.1/7470A","RES","1716279-BLK1","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET",,"0.00020","RDL","YES","-99",,"20","20","0.00020",  
"1716279-BS1","EPA 245.1/7470A","RES","1716279-BS1","ESAI","7439-97-6","Mercury","0.00480","mg/l",,"0.00013","MDL","TARGET","96",,"0.00020","RDL","YES","0.00500",,"20","20",  
"0.00020",  
"1716530-BLK1","SW846 6010C","RES","1716530-BLK1","ESAI","7440-09-7","Potassium","0.351","mg/l","J","0.120","MDL","TARGET",,"1.00","RDL","YES","-99",,"50","50","0.250",  
"1716530-BS1","SW846 6010C","RES","1716530-BS1","ESAI","7440-09-7","Potassium","24.2","mg/l",,"0.120","MDL","TARGET","97",,"1.00","RDL","YES","25.0",,"50","50","0.250",  
"1716530-BSD1","SW846 6010C","RES","1716530-BSD1","ESAI","7440-09-7","Potassium","23.2","mg/l",,"0.120","MDL","TARGET","93",,"4","1.00","RDL","YES","25.0",,"50","50","0.250",  
",  
"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","1763-23-1","Perfluorooctanesulfonate","0","ng/l",,"2","MDL","TARGET",,"6","RDL","YES","-99",,"-99",,"<",  
"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","1763-23-1L","13C8-PFOS","35","ng/l",,"-99","NA","SUR","74",,"-99","NA","YES","48",,"-99",  
"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l",,"1","MDL","TARGET",,"3","RDL","YES","-99",,"-99",,"<",  
"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","2058-94-8L","13C7-PFUnDA","32","ng/l",,"-99","NA","SUR","64",,"-99","NA","YES","50",,"-99",  
"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","2706-90-3","Perfluoropentanoic Acid","0","ng/l",,"0.5","MDL","TARGET",,"2","RDL","YES","-99",,"-99",,"<",  
"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","2706-90-3L","13C5-PFPeA","38","ng/l",,"-99","NA","SUR","76",,"-99","NA","YES","50",,"-99",

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","307-24-4","Perfluorohexanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","307-24-4L","13C5-PFHxA","44","ng/l","-99","NA","SUR","89","-99","NA","YES","50","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","307-55-1L","13C2-PFDoDA","29","ng/l","-99","NA","SUR","59","-99","NA","YES","50","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","335-67-1","Perfluorooctanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","335-67-1L","13C8-PFOA","37","ng/l","-99","NA","SUR","74","-99","NA","YES","50","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","335-76-2","Perfluorodecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","335-76-2L","13C6-PFDA","38","ng/l","-99","NA","SUR","76","-99","NA","YES","50","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","355-46-4","Perfluorohexanesulfonate","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","355-46-4L","13C3-PFHxS","40","ng/l","-99","NA","SUR","85","-99","NA","YES","47","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","375-22-4","Perfluorobutanoic Acid","0","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","375-22-4L","13C4-PFBA","38","ng/l","-99","NA","SUR","76","-99","NA","YES","50","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","375-73-5","Perfluorobutanesulfonate","0","ng/l","0.8","MDL","TARGET","3","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","375-73-5L","13C3-PFBS","40","ng/l","-99","NA","SUR","85","-99","NA","YES","46","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","375-85-9","Perfluoroheptanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","375-85-9L","13C4-PFHpA","41","ng/l","-99","NA","SUR","82","-99","NA","YES","50","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","375-95-1","Perfluorononanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","375-95-1L","13C9-PFNA","33","ng/l","-99","NA","SUR","66","-99","NA","YES","50","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","376-06-7L","13C2-PFTeDA","30","ng/l","-99","NA","SUR","61","-99","NA","YES","50","-99"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"

"TF1-FRB-091117","EPA 537 Modified","RES","SC39093-04","ESAI","754-91-6L","13C8-PFOA","7","ng/l","-99","NA","SUR","13","-99","NA","YES","50","-99"

"TF1-GT-119-091117","EPA 200/6000 methods","RES","SC39093-02","ESAI","NA","Preservation","0","N/A","-99","NA","TARGET","-99","NA","YES","-99","1","1","-99","Field Preserved; pH<2 confirmed"

"TF1-GT-119-091117","EPA 245.1/7470A","RES","SC39093-02","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.00020"

"TF1-GT-119-091117","EPA 300.0","RES","SC39093-02","ESAI","14797-55-8","Nitrate as

N", "0.011", "mg/l", "J", "0.007", "MDL", "TARGET", "0.100", "RDL", "YES", "-99", "5", "5", "0.100",  
"TF1-GT-119-091117", "EPA 300.0", "RES", "SC39093-02", "ESAI", "14808-79-8", "Sulfate as  
SO4", "45.2", "mg/l", "0.798", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "5", "5", "1.00",  
"TF1-GT-119-091117", "EPA 300.0", "RES", "SC39093-02", "ESAI", "16887-00-  
6", "Chloride", "5.98", "mg/l", "0.0994", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "5", "5", "0.100",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "1763-23-1", "Perfluoro-  
octanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "1763-23-1L", "13C8-  
PFOS", "32", "ng/l", "-99", "NA", "SUR", "66", "-99", "NA", "YES", "48", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "2058-94-8", "Perfluoroundecanoic  
acid", "0", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "2058-94-8L", "13C7-  
PFUnDA", "31", "ng/l", "-99", "NA", "SUR", "62", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "2706-90-3", "Perfluoropentanoic  
Acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "2706-90-3L", "13C5-  
PFPeA", "37", "ng/l", "-99", "NA", "SUR", "75", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "307-24-4", "Perfluorohexanoic  
acid", "0", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "307-24-4L", "13C5-  
PFHxA", "38", "ng/l", "-99", "NA", "SUR", "76", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "307-55-1", "Perfluorododecanoic  
acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "307-55-1L", "13C2-  
PFDoDA", "28", "ng/l", "-99", "NA", "SUR", "55", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "335-67-1", "Perfluorooctanoic  
acid", "0", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "335-67-1L", "13C8-  
PFOA", "33", "ng/l", "-99", "NA", "SUR", "65", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "335-76-2", "Perfluorodecanoic  
acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "335-76-2L", "13C6-  
PFDA", "31", "ng/l", "-99", "NA", "SUR", "62", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "335-77-  
3", "Perfluorodecanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "355-46-  
4", "Perfluorohexanesulfonate", "0", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "355-46-4L", "13C3-  
PFHxS", "37", "ng/l", "-99", "NA", "SUR", "78", "-99", "NA", "YES", "47", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "375-22-4", "Perfluorobutanoic  
Acid", "0", "ng/l", "3", "MDL", "TARGET", "10", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "375-22-4L", "13C4-  
PFBA", "33", "ng/l", "-99", "NA", "SUR", "66", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "375-73-  
5", "Perfluorobutanesulfonate", "0", "ng/l", "0.8", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "375-73-5L", "13C3-  
PFBS", "40", "ng/l", "-99", "NA", "SUR", "85", "-99", "NA", "YES", "46", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "375-85-9", "Perfluoroheptanoic  
acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "375-85-9L", "13C4-  
PFHpA", "34", "ng/l", "-99", "NA", "SUR", "69", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "375-92-  
8", "Perfluoroheptanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "375-95-1", "Perfluorononanoic  
acid", "0", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-119-091117", "EPA 537 Modified", "RES", "SC39093-02", "ESAI", "375-95-1L", "13C9-  
PFNA", "32", "ng/l", "-99", "NA", "SUR", "64", "-99", "NA", "YES", "50", "-99",

"TF1-GT-119-091117","EPA 537 Modified","RES","SC39093-02","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","EPA 537 Modified","RES","SC39093-02","ESAI","376-06-7L","13C2-PFTeDA","28","ng/l","-99","NA","SUR","55","-99","NA","YES","50","-99"

"TF1-GT-119-091117","EPA 537 Modified","RES","SC39093-02","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","EPA 537 Modified","RES","SC39093-02","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","EPA 537 Modified","RES","SC39093-02","ESAI","754-91-6L","13C8-PFOA","8","ng/l","-99","NA","SUR","17","-99","NA","YES","50","-99"

"TF1-GT-119-091117","Mod EPA 3C/SOP RSK-175","RES","SC39093-02","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20"

"TF1-GT-119-091117","Mod EPA 3C/SOP RSK-175","RES","SC39093-02","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00"

"TF1-GT-119-091117","SM18-22 5210B","RES","SC39093-02","ESAI","NA","Biochemical Oxygen Demand (5-day)","6.00","mg/l","BOD4","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97"

"TF1-GT-119-091117","SM2320B (97, 11)","RES","SC39093-02","ESAI","NA","Total Alkalinity","18.2","mg/l CaCO3","0.524","MDL","TARGET","2.00","RDL","YES","-99","100","50","1.50"

"TF1-GT-119-091117","SM5310B (00, 11)","RES","SC39093-02","ESAI","NA","Total Organic Carbon","2.62","mg/l","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500"

"TF1-GT-119-091117","SW846 6010C","RES","SC39093-02","ESAI","7429-90-5","Aluminum","0.0509","mg/l","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500"

"TF1-GT-119-091117","SW846 6010C","RES","SC39093-02","ESAI","7439-89-6","Iron","12.9","mg/l","R06","0.0089","MDL","TARGET","0.0800","RDL","YES","-99","50","50","0.0300"

"TF1-GT-119-091117","SW846 6010C","RES","SC39093-02","ESAI","7439-95-4","Magnesium","2.36","mg/l","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100"

"TF1-GT-119-091117","SW846 6010C","RES","SC39093-02","ESAI","7440-09-7","Potassium","2.43","mg/l","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250"

"TF1-GT-119-091117","SW846 6010C","RES","SC39093-02","ESAI","7440-23-5","Sodium","4.64","mg/l","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250"

"TF1-GT-119-091117","SW846 6010C","RES","SC39093-02","ESAI","7440-70-2","Calcium","20.1","mg/l","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7439-92-1","Lead","0","mg/l","0.00011","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7439-96-5","Manganese","3.19","mg/l","0.00090","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7439-98-7","Molybdenum","0","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-02-0","Nickel","0.0177","mg/l","0.0010","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-22-4","Silver","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-28-0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-36-0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-38-2","Arsenic","0.0069","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-39-3","Barium","0.0306","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-41-7","Beryllium","0","mg/l","0.000071","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-43-9","Cadmium","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-47-3","Chromium","0","mg/l","0.00087","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-48-4","Cobalt","0.0665","mg/l","0.00016","MDL","TARGET","0.0010","RDL","YES","-99","-99",  
"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-50-8","Copper","0.0069","mg/l","0.00054","MDL","TARGET","0.0040","RDL","YES","-99","-99",  
"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-62-2","Vanadium","0","mg/l","0.00021","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"  
"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7440-66-6","Zinc","0","mg/l","0.0039","MDL","TARGET","0.0300","RDL","YES","-99","-99","<"  
"TF1-GT-119-091117","SW-846 6020A","RES","SC39093-02","ESAI","7782-49-2","Selenium","0","mg/l","0.00050","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"  
"TF1-GT-119-091117","SW-846 8015B","RES","SC39093-02","ESAI","108-90-7","Chlorobenzene","0.011","mg/l","-99","NA","SUR","94","-99","NA","YES","0.012","-99",  
"TF1-GT-119-091117","SW-846 8015B","RES","SC39093-02","ESAI","84-15-1","Orthoterphenyl","0.011","mg/l","-99","NA","SUR","93","-99","NA","YES","0.012","-99",  
"TF1-GT-119-091117","SW-846 8015B","RES","SC39093-02","ESAI","PHCC8C44","C8-C44","0.25","mg/l","0.050","MDL","TARGET","0.20","RDL","YES","-99","-99",  
"TF1-GT-119-091117","SW-846 8015B","RES","SC39093-02","ESAI","PHCE","Total TPH","0.25","mg/l","0.050","MDL","TARGET","0.20","RDL","YES","-99","-99",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","1024-57-3","Heptachlor epoxide","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","1031-07-8","Endosulfan sulfate","0.019","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.141","g/l","-99","NA","SUR","73","-99","NA","YES","0.194","1030","10","-99",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","15972-60-8","Alachlor","0.019","g/l","U","0.018","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.166","g/l","-99","NA","SUR","85","-99","NA","YES","0.194","1030","10","-99",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","309-00-2","Aldrin","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","319-84-6","alpha-BHC","0.019","g/l","U","0.011","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","319-85-7","beta-BHC","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","319-86-8","delta-BHC","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","33213-65-9","Endosulfan II","0.019","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","50-29-3","4,4'-DDT (p,p')","0.029","g/l","U","0.017","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.029",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","5103-71-9","alpha-Chlordane","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","5103-74-2","Chlordane (gamma) (trans)","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","53494-70-5","Endrin ketone","0.019","g/l","U","0.017","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","57-74-9","Chlordane","0.063","g/l","U","0.050","MDL","TARGET","0.063","RDL","YES","-99","1030","10","0.063",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","58-89-9","gamma-BHC (Lindane)","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","60-57-1","Dieldrin","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","72-20-8","Endrin","0.019","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","72-43-5","Methoxychlor","0.019","g/l","U","0.018","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.

019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","72-54-8","4,4'-DDD  
(p,p)","0.019","g/l","U","0.018","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","72-55-9","4,4'-DDE  
(p,p)","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","7421-93-4","Endrin  
aldehyde","0.019","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","76-44-  
8","Heptachlor","0.019","g/l","U","0.019","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.01  
9",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","8001-35-  
2","Toxaphene","0.485","g/l","U","0.318","MDL","TARGET","0.485","RDL","YES","-99","1030","10","0.48  
5",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","877-09-8","2,4,5,6-TC-M-Xylene  
(IS)","0.020","g/ml","-99","NA","ISTD","98","-99","NA","YES","10.0","1030","10","-99",  
"TF1-GT-119-091117","SW846 8081B","RES","SC39093-02","ESAI","959-98-8","Endosulfan  
I","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1030","10","0.019",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","100-41-  
4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","100-42-  
5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","10061-01-5","cis-1,3-  
Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","10061-02-6","trans-1,3-  
Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","106-46-7","1,4-  
Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","106-93-4","1,2-Dibromoethane  
(EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","107-06-2","1,2-  
Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","108-10-1","4-Methyl-2-pentanone  
(MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","108-87-  
2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","108-88-  
3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","108-90-  
7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","110-82-  
7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","120-82-1","1,2,4-  
Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","124-48-  
1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","127-18-  
4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","156-59-2","cis-1,2-  
Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","156-60-5","trans-1,2-  
Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","1634-04-4","Methyl tert-butyl  
ether","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","17060-07-0","1,2-Dichloroethane-  
d4","49.8","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","179601-23-1","m,p-  
Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",

"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","1868-53-7","Dibromofluoromethane","55.8","g/l","-99","NA","SUR","112","-99","NA","YES","50.0","5","5","-99",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","2037-26-5","Toluene-d8","50.3","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","100","-99","NA","YES","50.0","5","5","-99",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","96","-99","NA","YES","50.0","5","5","-99",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","460-00-4","4-Bromofluorobenzene","49.0","g/l","-99","NA","SUR","98","-99","NA","YES","50.0","5","5","-99",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","102","-99","NA","YES","50.0","5","5","-99",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","56-23-5","Carbon tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","591-78-6","2-Hexanone (MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","74-83-9","Bromomethane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","74-87-3","Chloromethane","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","74-97-5","Bromochloromethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-00-3","Chloroethane","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-01-4","Vinyl chloride","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-09-2","Methylene chloride","2.0","g/l","U","0.7","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-15-0","Carbon disulfide","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-25-2","Bromoform","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-27-4","Bromodichloromethane","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-34-3","1,1-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-35-4","1,1-Dichloroethene","1.0","g/l","U","0.7","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","78-87-5","1,2-Dichloropropane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-119-091117","SW846 8260C","RES","SC39093-02","ESAI","78-93-3","2-Butanone



(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-119-091117", "SW846 8260C", "RES", "SC39093-02", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-119-091117", "SW846 8260C", "RES", "SC39093-02", "ESAI", "79-01-  
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-119-091117", "SW846 8260C", "RES", "SC39093-02", "ESAI", "79-20-9", "Methyl  
acetate", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-119-091117", "SW846 8260C", "RES", "SC39093-02", "ESAI", "79-34-5", "1,1,2,2-  
Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-119-091117", "SW846 8260C", "RES", "SC39093-02", "ESAI", "87-61-6", "1,2,3-  
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-119-091117", "SW846 8260C", "RES", "SC39093-02", "ESAI", "95-47-6", "o-  
Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-119-091117", "SW846 8260C", "RES", "SC39093-02", "ESAI", "95-50-1", "1,2-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-119-091117", "SW846 8260C", "RES", "SC39093-02", "ESAI", "96-12-8", "1,2-Dibromo-3-  
chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-119-091117", "SW846 8260C", "RES", "SC39093-02", "ESAI", "98-82-  
8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "1146-65-2", "Naphthalene-  
d8", "40.0", "g/ml", "-99", "NA", "ISTD", "114", "-99", "NA", "YES", "40.0", "1000", "1", "-99",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "120-12-  
7", "Anthracene", "1.00", "g/l", "U", "0.608", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "129-00-  
0", "Pyrene", "1.00", "g/l", "U", "0.610", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "15067-26-2", "Acenaphthene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "112", "-99", "NA", "YES", "40.0", "1000", "1", "-99",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "1517-22-2", "Phenanthrene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "110", "-99", "NA", "YES", "40.0", "1000", "1", "-99",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "1520-96-3", "Perylene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "112", "-99", "NA", "YES", "40.0", "1000", "1", "-99",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "1718-51-0", "Terphenyl-  
d14", "36.3", "g/l", "-99", "NA", "SUR", "73", "-99", "NA", "YES", "50.0", "1000", "1", "-99",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "1719-03-5", "Chrysene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "114", "-99", "NA", "YES", "40.0", "1000", "1", "-99",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "191-24-2", "Benzo (g,h,i)  
perylene", "1.00", "g/l", "U", "0.530", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "193-39-5", "Indeno (1,2,3-cd)  
pyrene", "1.00", "g/l", "U", "0.580", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "205-99-2", "Benzo (b)  
fluoranthene", "1.00", "g/l", "U", "0.437", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "206-44-  
0", "Fluoranthene", "1.00", "g/l", "U", "0.638", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "207-08-9", "Benzo (k)  
fluoranthene", "1.00", "g/l", "U", "0.480", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "208-96-  
8", "Acenaphthylene", "1.00", "g/l", "U", "0.683", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.0  
0",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "218-01-  
9", "Chrysene", "1.00", "g/l", "U", "0.532", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "321-60-8", "2-  
Fluorobiphenyl", "30.2", "g/l", "-99", "NA", "SUR", "60", "-99", "NA", "YES", "50.0", "1000", "1", "-99",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "4165-60-0", "Nitrobenzene-  
d5", "29.5", "g/l", "-99", "NA", "SUR", "59", "-99", "NA", "YES", "50.0", "1000", "1", "-99",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "50-32-8", "Benzo (a)  
pyrene", "1.00", "g/l", "U", "0.562", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "53-70-3", "Dibenzo (a,h)

anthracene", "1.00", "◆g/l", "U", "0.450", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "56-55-3", "Benzo (a)  
anthracene", "1.00", "◆g/l", "U", "0.536", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "83-32-  
9", "Acenaphthene", "1.00", "◆g/l", "U", "0.691", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00"  
/ "TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "85-01-  
8", "Phenanthrene", "1.00", "◆g/l", "U", "0.586", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00"  
/ "TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "86-73-  
7", "Fluorene", "1.00", "◆g/l", "U", "0.612", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "90-12-0", "1-  
Methylnaphthalene", "1.00", "◆g/l", "U", "0.733", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00"  
/ "TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "91-20-  
3", "Naphthalene", "1.00", "◆g/l", "U", "0.685", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00",  
"TF1-GT-119-091117", "SW846 8270D", "RES", "SC39093-02", "ESAI", "91-57-6", "2-  
Methylnaphthalene", "1.00", "◆g/l", "U", "0.574", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "1000", "1", "1.00"  
/ "TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "1024-57-3", "Heptachlor  
epoxide", "0.019", "◆g/l", "U", "0.015", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "TF1-GT-119-  
091117", "1040", "10", "0.019",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "1024-57-3", "Heptachlor epoxide  
[2C]", "0.019", "◆g/l", "U", "0.014", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "TF1-GT-119-  
091117", "1040", "10", "0.019",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "1031-07-8", "Endosulfan  
sulfate", "0.019", "◆g/l", "U", "0.019", "MDL", "TARGET", "0.038", "RDL", "YES", "-99", "TF1-GT-119-  
091117", "1040", "10", "0.019",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "1031-07-8", "Endosulfan sulfate  
[2C]", "0.019", "◆g/l", "U", "0.016", "MDL", "TARGET", "0.038", "RDL", "YES", "-99", "TF1-GT-119-  
091117", "1040", "10", "0.019",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "10386-84-2", "4,4-DB-  
Octafluorobiphenyl (Sr)", "0.140", "◆g/l", "-99", "NA", "SUR", "73", "-99", "NA", "YES", "0.192", "TF1-GT-119-  
091117", "1040", "10", "-99",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "10386-84-2", "4,4-DB-  
Octafluorobiphenyl (Sr) [2C]", "0.152", "◆g/l", "-99", "NA", "SUR", "79", "-99", "NA", "YES", "0.192", "TF1-GT-  
119-091117", "1040", "10", "-99",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "15972-60-  
8", "Alachlor", "0.019", "◆g/l", "U", "0.018", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "TF1-GT-119-  
091117", "1040", "10", "0.019",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "15972-60-8", "Alachlor  
[2C]", "0.019", "◆g/l", "U", "0.017", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "TF1-GT-119-  
091117", "1040", "10", "0.019",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "2051-24-3", "Decachlorobiphenyl  
(Sr)", "0.190", "◆g/l", "-99", "NA", "SUR", "99", "-99", "NA", "YES", "0.192", "TF1-GT-119-  
091117", "1040", "10", "-99",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "2051-24-3", "Decachlorobiphenyl  
(Sr) [2C]", "0.146", "◆g/l", "-99", "NA", "SUR", "76", "-99", "NA", "YES", "0.192", "TF1-GT-119-  
091117", "1040", "10", "-99",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "309-00-  
2", "Aldrin", "0.019", "◆g/l", "U", "0.015", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "TF1-GT-119-  
091117", "1040", "10", "0.019",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "309-00-2", "Aldrin  
[2C]", "0.019", "◆g/l", "U", "0.018", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "TF1-GT-119-  
091117", "1040", "10", "0.019",  
"TF1-GT-119-091117DUP", "SW846 8081B", "RES", "1715920-DUP1", "ESAI", "319-84-6", "alpha-  
BHC", "0.019", "◆g/l", "U", "0.011", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "TF1-GT-119-

091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","319-84-6","alpha-BHC  
[2C]","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","319-85-7","beta-  
BHC","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","319-85-7","beta-BHC  
[2C]","0.019","g/l","U","0.018","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","319-86-8","delta-  
BHC","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","319-86-8","delta-BHC  
[2C]","0.019","g/l","U","0.019","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","33213-65-9","Endosulfan  
II","0.019","g/l","U","0.019","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","33213-65-9","Endosulfan II  
[2C]","0.019","g/l","U","0.015","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","50-29-3","4,4'-DDT  
(p,p)","0.029","g/l","U","0.017","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.029",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","50-29-3","4,4'-DDT (p,p)  
[2C]","0.029","g/l","U","0.021","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.029",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","5103-71-9","alpha-  
Chlordane","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","5103-71-9","alpha-Chlordane  
[2C]","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","5103-74-2","Chlordane (gamma)  
(trans)","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","5103-74-2","Chlordane (gamma)  
(trans) [2C]","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","53494-70-5","Endrin  
ketone","0.019","g/l","U","0.017","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","53494-70-5","Endrin ketone  
[2C]","0.019","g/l","U","0.017","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","57-74-  
9","Chlordane","0.063","g/l","U","0.049","MDL","TARGET","0.063","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.063",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","57-74-9","Chlordane  
[2C]","0.063","g/l","U","0.059","MDL","TARGET","0.063","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.063",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","58-89-9","gamma-BHC  
(Lindane)","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","58-89-9","gamma-BHC (Lindane)  
[2C]","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-

091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","60-57-1","Dieldrin","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","60-57-1","Dieldrin [2C]","0.019","g/l","U","0.018","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","72-20-8","Endrin","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","72-20-8","Endrin [2C]","0.019","g/l","U","0.019","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","72-43-5","Methoxychlor","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","72-43-5","Methoxychlor [2C]","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","72-54-8","4,4'-DDD (p,p')","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","72-54-8","4,4'-DDD (p,p') [2C]","0.019","g/l","U","0.017","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","72-55-9","4,4'-DDE (p,p')","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","72-55-9","4,4'-DDE (p,p') [2C]","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","7421-93-4","Endrin aldehyde","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","7421-93-4","Endrin aldehyde [2C]","0.019","g/l","U","0.017","MDL","TARGET","0.038","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","76-44-8","Heptachlor","0.019","g/l","U","0.019","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","76-44-8","Heptachlor [2C]","0.019","g/l","U","0.019","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","8001-35-2","Toxaphene","0.481","g/l","U","0.315","MDL","TARGET","0.481","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.481",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","8001-35-2","Toxaphene [2C]","0.481","g/l","U","0.276","MDL","TARGET","0.481","RDL","YES","-99","TF1-GT-119-091117","1040","10","0.481",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","88","-99","NA","YES","10.0","TF1-GT-119-091117","1040","10","-99",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.020","g/ml","-99","NA","ISTD","96","-99","NA","YES","10.0","TF1-GT-119-091117","1040","10","-99",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","959-98-8","Endosulfan I","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-

091117","1040","10","0.019",  
"TF1-GT-119-091117DUP","SW846 8081B","RES","1715920-DUP1","ESAI","959-98-8","Endosulfan I  
[2C]","0.019","mg/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","TF1-GT-119-  
091117","1040","10","0.019",  
"TF1-GT-121-091117","EPA 200/6000 methods","RES","SC39093-  
01","ESAI","NA","Preservation","0","N/A","-99","NA","TARGET","-99","NA","YES","-99","1","1","-99","Field  
Preserved; pH<2 confirmed"  
"TF1-GT-121-091117","EPA 245.1/7470A","RES","SC39093-01","ESAI","7439-97-  
6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.0  
0020",  
"TF1-GT-121-091117","EPA 300.0","RES","SC39093-01","ESAI","14797-55-8","Nitrate as  
N","0.100","mg/l","U","0.007","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",  
"TF1-GT-121-091117","EPA 300.0","RES","SC39093-01","ESAI","14808-79-8","Sulfate as  
SO4","8.13","mg/l","0.798","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",  
"TF1-GT-121-091117","EPA 300.0","RES","SC39093-01","ESAI","16887-00-  
6","Chloride","15.6","mg/l","0.0994","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","1763-23-1","Perfluoro-  
octanesulfonate","2","ng/l","Ja","2","MDL","TARGET","6","RDL","YES","-99","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","1763-23-1L","13C8-  
PFOS","33","ng/l","-99","NA","SUR","70","-99","NA","YES","48","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","2058-94-8","Perfluoroundecanoic  
acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","2058-94-8L","13C7-  
PFUnDA","33","ng/l","-99","NA","SUR","67","-99","NA","YES","50","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","2706-90-3","Perfluoropentanoic  
Acid","51","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","2706-90-3L","13C5-  
PFPeA","37","ng/l","-99","NA","SUR","74","-99","NA","YES","50","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","307-24-4","Perfluorohexanoic  
acid","48","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","307-24-4L","13C5-  
PFHxA","36","ng/l","-99","NA","SUR","73","-99","NA","YES","50","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","307-55-1","Perfluorododecanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","307-55-1L","13C2-  
PFDoDA","30","ng/l","-99","NA","SUR","61","-99","NA","YES","50","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","335-67-1","Perfluorooctanoic  
acid","15","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","335-67-1L","13C8-  
PFOA","34","ng/l","-99","NA","SUR","67","-99","NA","YES","50","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","335-76-2","Perfluorodecanoic  
acid","0.9","ng/l","Ja","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","335-76-2L","13C6-  
PFDA","35","ng/l","-99","NA","SUR","71","-99","NA","YES","50","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","335-77-  
3","Perfluorodecanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","355-46-  
4","Perfluorohexanesulfonate","13","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","355-46-4L","13C3-  
PFHxS","34","ng/l","-99","NA","SUR","72","-99","NA","YES","47","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","375-22-4","Perfluorobutanoic  
Acid","21","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","375-22-4L","13C4-  
PFBA","34","ng/l","-99","NA","SUR","69","-99","NA","YES","50","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","375-73-  
5","Perfluorobutanesulfonate","9","ng/l","0.8","MDL","TARGET","3","RDL","YES","-99","-99",  
"TF1-GT-121-091117","EPA 537 Modified","RES","SC39093-01","ESAI","375-73-5L","13C3-

PFBS", "38", "ng/l", "-99", "NA", "SUR", "81", "-99", "NA", "YES", "46", "-99",  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "375-85-9", "Perfluoroheptanoic  
acid", "12", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "375-85-9L", "13C4-  
PFHpA", "32", "ng/l", "-99", "NA", "SUR", "64", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "375-92-  
8", "Perfluoroheptanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "375-95-1", "Perfluorononanoic  
acid", "0", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "375-95-1L", "13C9-  
PFNA", "34", "ng/l", "-99", "NA", "SUR", "68", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "376-06-7", "Perfluorotetradecanoic  
acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "376-06-7L", "13C2-  
PFTeDA", "29", "ng/l", "-99", "NA", "SUR", "59", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "72629-94-8", "Perfluorotridecanoic  
acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "754-91-  
6", "PFOSA", "0", "ng/l", "3", "MDL", "TARGET", "9", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "EPA 537 Modified", "RES", "SC39093-01", "ESAI", "754-91-6L", "13C8-  
PFOSA", "5", "ng/l", "-99", "NA", "SUR", "10", "-99", "NA", "YES", "50", "-99",  
"TF1-GT-121-091117", "Mod EPA 3C/SOP RSK-175", "RES", "SC39093-01", "ESAI", "74-82-  
8", "Methane", "38.0", "g/l", "2.16", "MDL", "TARGET", "2.20", "RDL", "YES", "-99", "10", "10", "2.20",  
"TF1-GT-121-091117", "Mod EPA 3C/SOP RSK-175", "RES", "SC39093-01", "ESAI", "74-84-  
0", "Ethane", "5.00", "g/l", "U", "3.48", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "10", "10", "5.00",  
"TF1-GT-121-091117", "SM18-22 5210B", "RES", "SC39093-01", "ESAI", "NA", "Biochemical Oxygen Demand (5-  
day)", "6.00", "mg/l", "BOD4", "2.74", "MDL", "TARGET", "3.00", "RDL", "YES", "-99", "300", "300", "2.97",  
"TF1-GT-121-091117", "SM2320B (97, 11)", "RES", "SC39093-01", "ESAI", "NA", "Total Alkalinity", "61.2", "mg/l  
CaCO3", "0.524", "MDL", "TARGET", "2.00", "RDL", "YES", "-99", "100", "50", "1.50",  
"TF1-GT-121-091117", "SM5310B (00, 11)", "RES", "SC39093-01", "ESAI", "NA", "Total Organic  
Carbon", "1.99", "mg/l", "0.238", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-GT-121-091117", "SW846 6010C", "RES", "SC39093-01", "ESAI", "7429-90-  
5", "Aluminum", "0.0500", "mg/l", "U", "0.0206", "MDL", "TARGET", "0.0500", "RDL", "YES", "-99", "50", "50", "0.05  
00",  
"TF1-GT-121-091117", "SW846 6010C", "RES", "SC39093-01", "ESAI", "7439-89-  
6", "Iron", "23.7", "mg/l", "R06", "0.0089", "MDL", "TARGET", "0.0800", "RDL", "YES", "-99", "50", "50", "0.0300",  
"TF1-GT-121-091117", "SW846 6010C", "RES", "SC39093-01", "ESAI", "7439-95-  
4", "Magnesium", "5.19", "mg/l", "0.0088", "MDL", "TARGET", "0.0200", "RDL", "YES", "-99", "50", "50", "0.0100",  
"TF1-GT-121-091117", "SW846 6010C", "RES", "SC39093-01", "ESAI", "7440-09-  
7", "Potassium", "1.15", "mg/l", "0.120", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "50", "50", "0.250",  
"TF1-GT-121-091117", "SW846 6010C", "RES", "SC39093-01", "ESAI", "7440-23-  
5", "Sodium", "9.05", "mg/l", "0.0785", "MDL", "TARGET", "0.500", "RDL", "YES", "-99", "50", "50", "0.250",  
"TF1-GT-121-091117", "SW846 6010C", "RES", "SC39093-01", "ESAI", "7440-70-  
2", "Calcium", "14.2", "mg/l", "0.0142", "MDL", "TARGET", "0.200", "RDL", "YES", "-99", "50", "50", "0.0500",  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7439-92-  
1", "Lead", "0", "mg/l", "0.00011", "MDL", "TARGET", "0.0020", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7439-96-  
5", "Manganese", "2.32", "mg/l", "0.00090", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7439-98-  
7", "Molybdenum", "0", "mg/l", "0.00025", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-02-  
0", "Nickel", "0.0053", "mg/l", "0.0010", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-22-  
4", "Silver", "0", "mg/l", "0.00015", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-28-  
0", "Thallium", "0", "mg/l", "0.00012", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-36-

0", "Antimony", "0", "mg/l", "0.00045", "MDL", "TARGET", "0.0020", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-38-  
2", "Arsenic", "0.0191", "mg/l", "0.00072", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-39-  
3", "Barium", "0.0055", "mg/l", "0.00072", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-41-  
7", "Beryllium", "0", "mg/l", "0.000071", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-43-  
9", "Cadmium", "0", "mg/l", "0.00015", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-47-  
3", "Chromium", "0", "mg/l", "0.00087", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-48-  
4", "Cobalt", "0.0087", "mg/l", "0.00016", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99",  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-50-  
8", "Copper", "0", "mg/l", "0.00054", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-62-  
2", "Vanadium", "0", "mg/l", "0.00021", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7440-66-  
6", "Zinc", "0", "mg/l", "0.0039", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 6020A", "RES", "SC39093-01", "ESAI", "7782-49-  
2", "Selenium", "0", "mg/l", "0.00050", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-121-091117", "SW-846 8015B", "RES", "SC39093-01", "ESAI", "108-90-  
7", "Chlorobenzene", "0.011", "mg/l", "-99", "NA", "SUR", "91", "-99", "NA", "YES", "0.012", "-99",  
"TF1-GT-121-091117", "SW-846 8015B", "RES", "SC39093-01", "ESAI", "84-15-  
1", "Orthoterphenyl", "0.012", "mg/l", "-99", "NA", "SUR", "95", "-99", "NA", "YES", "0.012", "-99",  
"TF1-GT-121-091117", "SW-846 8015B", "RES", "SC39093-01", "ESAI", "PHCC8C44", "C8-  
C44", "0.40", "mg/l", "0.050", "MDL", "TARGET", "0.20", "RDL", "YES", "-99", "-99",  
"TF1-GT-121-091117", "SW-846 8015B", "RES", "SC39093-01", "ESAI", "PHCE", "Total  
TPH", "0.40", "mg/l", "0.050", "MDL", "TARGET", "0.20", "RDL", "YES", "-99", "-99",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "1024-57-3", "Heptachlor  
epoxide", "0.019", "g/l", "U", "0.015", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "1031-07-8", "Endosulfan  
sulfate", "0.019", "g/l", "U", "0.019", "MDL", "TARGET", "0.038", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "10386-84-2", "4,4-DB-Octafluorobiphenyl  
(Sr)", "0.156", "g/l", "-99", "NA", "SUR", "81", "-99", "NA", "YES", "0.192", "1040", "10", "-99",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "15972-60-  
8", "Alachlor", "0.019", "g/l", "U", "0.018", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "2051-24-3", "Decachlorobiphenyl  
(Sr)", "0.159", "g/l", "-99", "NA", "SUR", "83", "-99", "NA", "YES", "0.192", "1040", "10", "-99",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "309-00-  
2", "Aldrin", "0.019", "g/l", "U", "0.015", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "319-84-6", "alpha-  
BHC", "0.019", "g/l", "U", "0.011", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "319-85-7", "beta-  
BHC", "0.019", "g/l", "U", "0.014", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "319-86-8", "delta-  
BHC", "0.019", "g/l", "U", "0.015", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "33213-65-9", "Endosulfan  
II", "0.019", "g/l", "U", "0.019", "MDL", "TARGET", "0.038", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "50-29-3", "4,4'-DDT  
(p,p')", "0.029", "g/l", "U", "0.017", "MDL", "TARGET", "0.038", "RDL", "YES", "-99", "1040", "10", "0.029",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "5103-71-9", "alpha-  
Chlordane", "0.019", "g/l", "U", "0.015", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "5103-74-2", "Chlordane (gamma)  
(trans)", "0.019", "g/l", "U", "0.015", "MDL", "TARGET", "0.019", "RDL", "YES", "-99", "1040", "10", "0.019",  
"TF1-GT-121-091117", "SW846 8081B", "RES", "SC39093-01", "ESAI", "53494-70-5", "Endrin  
ketone", "0.019", "g/l", "U", "0.017", "MDL", "TARGET", "0.038", "RDL", "YES", "-99", "1040", "10", "0.019",

"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","57-74-9","Chlordane","0.063","g/l","U","0.049","MDL","TARGET","0.063","RDL","YES","-99","1040","10","0.063"  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","58-89-9","gamma-BHC (Lindane)","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","60-57-1","Dieldrin","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","72-20-8","Endrin","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","1040","10","0.019",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","72-43-5","Methoxychlor","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","1040","10","0.019",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","72-54-8","4,4'-DDD (p,p')","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","1040","10","0.019",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","72-55-9","4,4'-DDE (p,p')","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","7421-93-4","Endrin aldehyde","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","1040","10","0.019",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","76-44-8","Heptachlor","0.019","g/l","U","0.019","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","8001-35-2","Toxaphene","0.481","g/l","U","0.315","MDL","TARGET","0.481","RDL","YES","-99","1040","10","0.481",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","85","-99","NA","YES","10.0","1040","10","-99",  
"TF1-GT-121-091117","SW846 8081B","RES","SC39093-01","ESAI","959-98-8","Endosulfan I","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1040","10","0.019",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","100-41-4","Ethylbenzene","2.4","g/l","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","108-87-2","Methylcyclohexane","1.0","g/l","J","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","108-88-3","Toluene","2.5","g/l","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","110-82-7","Cyclohexane","3.9","g/l","J","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","127-18-



4", "Tetrachloroethene", "1.0", "g/l", "U", "0.6", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "156-59-2", "cis-1,2-  
Dichloroethene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "156-60-5", "trans-1,2-  
Dichloroethene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "1634-04-4", "Methyl tert-butyl  
ether", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "17060-07-0", "1,2-Dichloroethane-  
d4", "48.8", "g/l", "-99", "NA", "SUR", "98", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "179601-23-1", "m,p-  
Xylene", "0.6", "g/l", "J", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "1868-53-  
7", "Dibromofluoromethane", "49.1", "g/l", "-99", "NA", "SUR", "98", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "2037-26-5", "Toluene-  
d8", "49.2", "g/l", "-99", "NA", "SUR", "98", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "3114-55-4", "Chlorobenzene-  
d5", "50.0", "g/l", "-99", "NA", "ISTD", "101", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-  
d4", "50.0", "g/l", "-99", "NA", "ISTD", "97", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "460-00-4", "4-  
Bromofluorobenzene", "48.8", "g/l", "-99", "NA", "SUR", "98", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "462-06-  
6", "Fluorobenzene", "50.0", "g/l", "-99", "NA", "ISTD", "104", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "541-73-1", "1,3-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "56-23-5", "Carbon  
tetrachloride", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "591-78-6", "2-Hexanone  
(MBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "67-64-  
1", "Acetone", "2.0", "g/l", "U", "0.8", "MDL", "TARGET", "10.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "67-66-  
3", "Chloroform", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "71-43-  
2", "Benzene", "1.3", "g/l", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "71-55-6", "1,1,1-  
Trichloroethane", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "74-83-  
9", "Bromomethane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "74-87-  
3", "Chloromethane", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "74-97-  
5", "Bromochloromethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "75-00-  
3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "75-01-4", "Vinyl  
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "75-09-2", "Methylene  
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "75-15-0", "Carbon  
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "75-25-  
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "75-27-  
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-121-091117", "SW846 8260C", "RES", "SC39093-01", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",

"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","75-35-4","1,1-Dichloroethene","1.0","g/l","U","0.7","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","78-87-5","1,2-Dichloropropane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","78-93-3","2-Butanone (MEK)","2.0","g/l","U","1.1","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","79-00-5","1,1,2-Trichloroethane","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","79-01-6","Trichloroethene","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","79-20-9","Methyl acetate","2.0","g/l","U","0.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","87-61-6","1,2,3-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","95-47-6","o-Xylene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","95-50-1","1,2-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-121-091117","SW846 8260C","RES","SC39093-01","ESAI","98-82-8","Isopropylbenzene","2.1","g/l","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","1146-65-2","Naphthalene-d8","40.0","g/ml","-99","NA","ISTD","119","-99","NA","YES","40.0","1060","1","-99",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","120-12-7","Anthracene","0.943","g/l","U","0.574","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","129-00-0","Pyrene","0.943","g/l","U","0.575","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","116","-99","NA","YES","40.0","1060","1","-99",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","113","-99","NA","YES","40.0","1060","1","-99",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","1520-96-3","Perylene-d12","40.0","g/ml","-99","NA","ISTD","115","-99","NA","YES","40.0","1060","1","-99",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","1718-51-0","Terphenyl-d14","31.6","g/l","-99","NA","SUR","67","-99","NA","YES","47.2","1060","1","-99",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","119","-99","NA","YES","40.0","1060","1","-99",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","191-24-2","Benzo (g,h,i) perylene","0.943","g/l","U","0.500","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","0.943","g/l","U","0.547","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","205-99-2","Benzo (b) fluoranthene","0.943","g/l","U","0.412","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","206-44-0","Fluoranthene","0.943","g/l","U","0.602","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-GT-121-091117","SW846 8270D","RES","SC39093-01","ESAI","207-08-9","Benzo (k)

fluoranthene", "0.943", "g/l", "U", "0.453", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.943",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "208-96-  
8", "Acenaphthylene", "0.943", "g/l", "U", "0.644", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.  
943",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "218-01-  
9", "Chrysene", "0.943", "g/l", "U", "0.502", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.943",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "321-60-8", "2-  
Fluorobiphenyl", "25.9", "g/l", "-99", "NA", "SUR", "55", "-99", "NA", "YES", "47.2", "1060", "1", "-99",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "4165-60-0", "Nitrobenzene-  
d5", "24.4", "g/l", "-99", "NA", "SUR", "52", "-99", "NA", "YES", "47.2", "1060", "1", "-99",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "50-32-8", "Benzo (a)  
pyrene", "0.943", "g/l", "U", "0.530", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.943",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "53-70-3", "Dibenzo (a,h)  
anthracene", "0.943", "g/l", "U", "0.425", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.943",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "56-55-3", "Benzo (a)  
anthracene", "0.943", "g/l", "U", "0.506", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.943",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "83-32-  
9", "Acenaphthene", "0.943", "g/l", "U", "0.652", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.9  
43",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "85-01-  
8", "Phenanthrene", "0.943", "g/l", "U", "0.553", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.94  
3",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "86-73-  
7", "Fluorene", "0.943", "g/l", "U", "0.577", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.943",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "90-12-0", "1-  
Methylnaphthalene", "0.943", "g/l", "U", "0.692", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.9  
43",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "91-20-  
3", "Naphthalene", "0.943", "g/l", "U", "0.646", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.943",  
"TF1-GT-121-091117", "SW846 8270D", "RES", "SC39093-01", "ESAI", "91-57-6", "2-  
Methylnaphthalene", "0.943", "g/l", "U", "0.542", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "1060", "1", "0.9  
43",  
"TF1-GT-121-091117DUP", "EPA 245.1/7470A", "RES", "1716279-DUP1", "ESAI", "7439-97-  
6", "Mercury", "0.00020", "mg/l", "U", "0.00013", "MDL", "TARGET", "0.00020", "RDL", "YES", "-99", "TF1-GT-121-  
091117", "20", "20", "0.00020",  
"TF1-GT-121-091117MS", "EPA 245.1/7470A", "RES", "1716279-MS1", "ESAI", "7439-97-  
6", "Mercury", "0.00485", "mg/l", "0.00013", "MDL", "SPIKE", "97", "0.00020", "RDL", "YES", "0.00500", "TF1-GT-  
121-091117", "20", "20", "0.00020",  
"TF1-GT-121-091117MSD", "EPA 245.1/7470A", "RES", "1716279-MSD1", "ESAI", "7439-97-  
6", "Mercury", "0.00497", "mg/l", "0.00013", "MDL", "SPIKE", "99", "3", "0.00020", "RDL", "YES", "0.00500", "TF1-  
GT-121-091117", "20", "20", "0.00020",  
"TF1-GT-121-091117PS", "EPA 245.1/7470A", "RES", "1716279-PS1", "ESAI", "7439-97-  
6", "Mercury", "0.00515", "mg/l", "0.00013", "MDL", "SPIKE", "103", "0.00020", "RDL", "YES", "0.00500", "TF1-GT-  
121-091117", "20", "20", "0.00020",  
"TF1-GZ-103-091117", "EPA 200/6000 methods", "RES", "SC39093-  
03", "ESAI", "NA", "Preservation", "0", "N/A", "-99", "NA", "TARGET", "-99", "NA", "YES", "-99", "1", "1", "-99", "Field  
Preserved; pH<2 confirmed",  
"TF1-GZ-103-091117", "EPA 245.1/7470A", "RES", "SC39093-03", "ESAI", "7439-97-  
6", "Mercury", "0.00020", "mg/l", "U", "0.00013", "MDL", "TARGET", "0.00020", "RDL", "YES", "-99", "20", "20", "0.0  
0020",  
"TF1-GZ-103-091117", "EPA 300.0", "RES", "SC39093-03", "ESAI", "14797-55-8", "Nitrate as  
N", "0.100", "mg/l", "U", "0.007", "MDL", "TARGET", "0.100", "RDL", "YES", "-99", "5", "5", "0.100",  
"TF1-GZ-103-091117", "EPA 300.0", "RES", "SC39093-03", "ESAI", "14808-79-8", "Sulfate as  
SO4", "1.00", "mg/l", "U", "0.798", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "5", "5", "1.00",  
"TF1-GZ-103-091117", "EPA 300.0", "RES", "SC39093-03", "ESAI", "16887-00-  
6", "Chloride", "11.2", "mg/l", "0.0994", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "5", "5", "0.100",

"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","1763-23-1","Perfluoro-  
octanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","1763-23-1L","13C8-  
PFOS","35","ng/l","-99","NA","SUR","74","-99","NA","YES","48","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","2058-94-8","Perfluoroundecanoic  
acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","2058-94-8L","13C7-  
PFUnDA","30","ng/l","-99","NA","SUR","59","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","2706-90-3","Perfluoropentanoic  
Acid","11","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","2706-90-3L","13C5-  
PFPeA","41","ng/l","-99","NA","SUR","83","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","307-24-4","Perfluorohexanoic  
acid","8","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","307-24-4L","13C5-  
PFHxA","41","ng/l","-99","NA","SUR","81","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","307-55-1","Perfluorododecanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","307-55-1L","13C2-  
PFDoDA","27","ng/l","-99","NA","SUR","54","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","335-67-1","Perfluorooctanoic  
acid","1","ng/l","Ja","0.6","MDL","TARGET","2","RDL","YES","-99","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","335-67-1L","13C8-  
PFOA","38","ng/l","-99","NA","SUR","76","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","335-76-2","Perfluorodecanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","335-76-2L","13C6-  
PFDA","36","ng/l","-99","NA","SUR","72","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","335-77-  
3","Perfluorodecanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","355-46-  
4","Perfluorohexanesulfonate","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","355-46-4L","13C3-  
PFHxS","38","ng/l","-99","NA","SUR","79","-99","NA","YES","47","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","375-22-4","Perfluorobutanoic  
Acid","0","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","375-22-4L","13C4-  
PFBA","37","ng/l","-99","NA","SUR","74","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","375-73-  
5","Perfluorobutanesulfonate","1","ng/l","Ja","0.8","MDL","TARGET","3","RDL","YES","-99","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","375-73-5L","13C3-  
PFBS","45","ng/l","-99","NA","SUR","96","-99","NA","YES","47","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","375-85-9","Perfluoroheptanoic  
acid","1","ng/l","Ja","0.5","MDL","TARGET","2","RDL","YES","-99","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","375-85-9L","13C4-  
PFHpA","40","ng/l","-99","NA","SUR","80","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","375-92-  
8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","375-95-1","Perfluorononanoic  
acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","375-95-1L","13C9-  
PFNA","35","ng/l","-99","NA","SUR","70","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","376-06-7","Perfluorotetradecanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","376-06-7L","13C2-  
PFTeDA","29","ng/l","-99","NA","SUR","57","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","72629-94-8","Perfluorotridecanoic

acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","EPA 537 Modified","RES","SC39093-03","ESAI","754-91-6L","13C8-PFOA","4","ng/l","-99","NA","SUR","8","-99","NA","YES","50","-99"  
"TF1-GZ-103-091117","Mod EPA 3C/SOP RSK-175","RES","SC39093-03","ESAI","74-82-8","Methane","417","g/l","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20",  
"TF1-GZ-103-091117","Mod EPA 3C/SOP RSK-175","RES","SC39093-03","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00",  
"TF1-GZ-103-091117","SM18-22 5210B","RES","SC39093-03","ESAI","NA","Biochemical Oxygen Demand (5-day)","6.00","mg/l","BOD4","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",  
"TF1-GZ-103-091117","SM2320B (97, 11)","RES","SC39093-03","ESAI","NA","Total Alkalinity","105","mg/l CaCO3","0.524","MDL","TARGET","2.00","RDL","YES","-99","100","50","1.50",  
"TF1-GZ-103-091117","SM5310B (00, 11)","RES","SC39093-03","ESAI","NA","Total Organic Carbon","4.02","mg/l","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500",  
"TF1-GZ-103-091117","SW846 6010C","RES","SC39093-03","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500",  
"TF1-GZ-103-091117","SW846 6010C","RES","SC39093-03","ESAI","7439-89-6","Iron","45.9","mg/l","R06","0.0089","MDL","TARGET","0.0800","RDL","YES","-99","50","50","0.0300",  
"TF1-GZ-103-091117","SW846 6010C","RES","SC39093-03","ESAI","7439-95-4","Magnesium","3.66","mg/l","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100",  
"TF1-GZ-103-091117","SW846 6010C","RES","SC39093-03","ESAI","7440-09-7","Potassium","3.40","mg/l","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250",  
"TF1-GZ-103-091117","SW846 6010C","RES","SC39093-03","ESAI","7440-23-5","Sodium","7.14","mg/l","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250",  
"TF1-GZ-103-091117","SW846 6010C","RES","SC39093-03","ESAI","7440-70-2","Calcium","29.0","mg/l","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7439-92-1","Lead","0","mg/l","0.00011","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7439-96-5","Manganese","2.10","mg/l","0.00090","MDL","TARGET","0.0040","RDL","YES","-99","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7439-98-7","Molybdenum","0","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-02-0","Nickel","0","mg/l","0.0010","MDL","TARGET","0.0040","RDL","YES","-99","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-22-4","Silver","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-28-0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-36-0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-38-2","Arsenic","0.0241","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-39-3","Barium","0.0115","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-41-7","Beryllium","0","mg/l","0.000071","MDL","TARGET","0.0010","RDL","YES","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-43-9","Cadmium","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-47-3","Chromium","0","mg/l","0.00087","MDL","TARGET","0.0040","RDL","YES","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-48-4","Cobalt","0","mg/l","0.00016","MDL","TARGET","0.0010","RDL","YES","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-50-8","Copper","0.0053","mg/l","0.00054","MDL","TARGET","0.0040","RDL","YES","-99",  
"TF1-GZ-103-091117","SW-846 6020A","RES","SC39093-03","ESAI","7440-62-

2", "Vanadium", "0", "mg/l", "0.00021", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GZ-103-091117", "SW-846 6020A", "RES", "SC39093-03", "ESAI", "7440-66-6", "Zinc", "0", "mg/l", "0.0039", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "-99", "<"  
"TF1-GZ-103-091117", "SW-846 6020A", "RES", "SC39093-03", "ESAI", "7782-49-2", "Selenium", "0", "mg/l", "0.00050", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-GZ-103-091117", "SW-846 8015B", "RES", "SC39093-03", "ESAI", "108-90-7", "Chlorobenzene", "0.0091", "mg/l", "-99", "NA", "SUR", "75", "-99", "NA", "YES", "0.012", "-99",  
"TF1-GZ-103-091117", "SW-846 8015B", "RES", "SC39093-03", "ESAI", "84-15-1", "Orthoterphenyl", "0.011", "mg/l", "-99", "NA", "SUR", "90", "-99", "NA", "YES", "0.012", "-99",  
"TF1-GZ-103-091117", "SW-846 8015B", "RES", "SC39093-03", "ESAI", "PHCC8C44", "C8-C44", "0.37", "mg/l", "0.051", "MDL", "TARGET", "0.20", "RDL", "YES", "-99", "-99",  
"TF1-GZ-103-091117", "SW-846 8015B", "RES", "SC39093-03", "ESAI", "PHCE", "Total TPH", "0.37", "mg/l", "0.051", "MDL", "TARGET", "0.20", "RDL", "YES", "-99", "-99",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "1024-57-3", "Heptachlor epoxide", "0.020", "g/l", "U", "0.015", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "1031-07-8", "Endosulfan sulfate", "0.020", "g/l", "U", "0.019", "MDL", "TARGET", "0.039", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "10386-84-2", "4,4-DB-Octafluorobiphenyl (Sr)", "0.172", "g/l", "-99", "NA", "SUR", "87", "-99", "NA", "YES", "0.196", "1020", "10", "-99",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "15972-60-8", "Alachlor", "0.020", "g/l", "U", "0.019", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "2051-24-3", "Decachlorobiphenyl (Sr)", "0.170", "g/l", "-99", "NA", "SUR", "87", "-99", "NA", "YES", "0.196", "1020", "10", "-99",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "309-00-2", "Aldrin", "0.020", "g/l", "U", "0.015", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "319-84-6", "alpha-BHC", "0.020", "g/l", "U", "0.011", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "319-85-7", "beta-BHC", "0.020", "g/l", "U", "0.014", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "319-86-8", "delta-BHC", "0.020", "g/l", "U", "0.015", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "33213-65-9", "Endosulfan II", "0.020", "g/l", "U", "0.020", "MDL", "TARGET", "0.039", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "50-29-3", "4,4'-DDT (p,p')", "0.029", "g/l", "U", "0.017", "MDL", "TARGET", "0.039", "RDL", "YES", "-99", "1020", "10", "0.029",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "5103-71-9", "alpha-Chlordane", "0.020", "g/l", "U", "0.015", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "5103-74-2", "Chlordane (gamma) (trans)", "0.020", "g/l", "U", "0.016", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "53494-70-5", "Endrin ketone", "0.020", "g/l", "U", "0.017", "MDL", "TARGET", "0.039", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "57-74-9", "Chlordane", "0.064", "g/l", "U", "0.050", "MDL", "TARGET", "0.064", "RDL", "YES", "-99", "1020", "10", "0.064",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "58-89-9", "gamma-BHC (Lindane)", "0.020", "g/l", "U", "0.017", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "60-57-1", "Dieldrin", "0.020", "g/l", "U", "0.017", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "72-20-8", "Endrin", "0.020", "g/l", "U", "0.019", "MDL", "TARGET", "0.039", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "72-43-5", "Methoxychlor", "0.020", "g/l", "U", "0.018", "MDL", "TARGET", "0.039", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "72-54-8", "4,4'-DDD (p,p')", "0.020", "g/l", "U", "0.018", "MDL", "TARGET", "0.039", "RDL", "YES", "-99", "1020", "10", "0.020",  
"TF1-GZ-103-091117", "SW846 8081B", "RES", "SC39093-03", "ESAI", "72-55-9", "4,4'-DDE (p,p')", "0.020", "g/l", "U", "0.017", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "1020", "10", "0.020",

"TF1-GZ-103-091117","SW846 8081B","RES","SC39093-03","ESAI","7421-93-4","Endrin aldehyde","0.020","g/l","U","0.019","MDL","TARGET","0.039","RDL","YES","-99","1020","10","0.020",  
"TF1-GZ-103-091117","SW846 8081B","RES","SC39093-03","ESAI","76-44-8","Heptachlor","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",  
"TF1-GZ-103-091117","SW846 8081B","RES","SC39093-03","ESAI","8001-35-2","Toxaphene","0.490","g/l","U","0.322","MDL","TARGET","0.490","RDL","YES","-99","1020","10","0.490",  
"TF1-GZ-103-091117","SW846 8081B","RES","SC39093-03","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","55","-99","NA","YES","10.0","1020","10","-99",  
"TF1-GZ-103-091117","SW846 8081B","RES","SC39093-03","ESAI","959-98-8","Endosulfan I","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","1020","10","0.020",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","100-41-4","Ethylbenzene","3.2","g/l","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","108-87-2","Methylcyclohexane","4.4","g/l","J","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","108-88-3","Toluene","3.8","g/l","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","110-82-7","Cyclohexane","14.1","g/l","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","1634-04-4","Methyl tert-butyl ether","8.0","g/l","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","17060-07-0","1,2-Dichloroethane-d4","49.1","g/l","-99","NA","SUR","98","-99","NA","YES","50.0","5","5","-99",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","179601-23-1","m,p-Xylene","7.4","g/l","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","1868-53-7","Dibromofluoromethane","49.3","g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","2037-26-5","Toluene-d8","49.5","g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","3114-55-4","Chlorobenzene-

d5", "50.0", "g/l", "-99", "NA", "ISTD", "106", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-  
d4", "50.0", "g/l", "-99", "NA", "ISTD", "103", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "460-00-4", "4-  
Bromofluorobenzene", "49.0", "g/l", "-99", "NA", "SUR", "98", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "462-06-  
6", "Fluorobenzene", "50.0", "g/l", "-99", "NA", "ISTD", "107", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "541-73-1", "1,3-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "56-23-5", "Carbon  
tetrachloride", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "591-78-6", "2-Hexanone  
(MBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "67-64-  
1", "Acetone", "2.0", "g/l", "U", "0.8", "MDL", "TARGET", "10.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "67-66-  
3", "Chloroform", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "71-43-  
2", "Benzene", "29.6", "g/l", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "71-55-6", "1,1,1-  
Trichloroethane", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "74-83-  
9", "Bromomethane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "74-87-  
3", "Chloromethane", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "74-97-  
5", "Bromochloromethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-00-  
3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-01-4", "Vinyl  
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-09-2", "Methylene  
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-15-0", "Carbon  
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-25-  
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-27-  
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-69-4", "Trichlorofluoromethane (Freon  
11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "76-13-1", "1,1,2-Trichlorotrifluoroethane  
(Freon 113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "78-93-3", "2-Butanone  
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GZ-103-091117", "SW846 8260C", "RES", "SC39093-03", "ESAI", "79-01-  
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",



"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","79-20-9","Methyl acetate","2.0","g/l","U","0.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","87-61-6","1,2,3-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","95-47-6","o-Xylene","0.6","g/l","J","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","95-50-1","1,2-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GZ-103-091117","SW846 8260C","RES","SC39093-03","ESAI","98-82-8","Isopropylbenzene","2.1","g/l","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","1146-65-2","Naphthalene-d8","40.0","g/ml","-99","NA","ISTD","118","-99","NA","YES","40.0","1040","1","-99",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","120-12-7","Anthracene","0.962","g/l","U","0.585","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","129-00-0","Pyrene","0.962","g/l","U","0.587","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","116","-99","NA","YES","40.0","1040","1","-99",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","113","-99","NA","YES","40.0","1040","1","-99",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","1520-96-3","Perylene-d12","40.0","g/ml","-99","NA","ISTD","115","-99","NA","YES","40.0","1040","1","-99",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","1718-51-0","Terphenyl-d14","32.5","g/l","-99","NA","SUR","68","-99","NA","YES","48.1","1040","1","-99",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","118","-99","NA","YES","40.0","1040","1","-99",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","191-24-2","Benzo (g,h,i) perylene","0.962","g/l","U","0.510","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","0.962","g/l","U","0.558","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","205-99-2","Benzo (b) fluoranthene","0.962","g/l","U","0.420","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","206-44-0","Fluoranthene","0.962","g/l","U","0.613","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","207-08-9","Benzo (k) fluoranthene","0.962","g/l","U","0.462","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","208-96-8","Acenaphthylene","0.962","g/l","U","0.657","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","218-01-9","Chrysene","0.962","g/l","U","0.512","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","321-60-8","2-Fluorobiphenyl","26.6","g/l","-99","NA","SUR","55","-99","NA","YES","48.1","1040","1","-99",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","4165-60-0","Nitrobenzene-d5","25.9","g/l","-99","NA","SUR","54","-99","NA","YES","48.1","1040","1","-99",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","50-32-8","Benzo (a) pyrene","0.962","g/l","U","0.540","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","53-70-3","Dibenzo (a,h) anthracene","0.962","g/l","U","0.433","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","56-55-3","Benzo (a) anthracene","0.962","g/l","U","0.515","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",

"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","83-32-9","Acenaphthene","0.962","◆g/l","U","0.664","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","85-01-8","Phenanthrene","0.962","◆g/l","U","0.563","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","86-73-7","Fluorene","0.962","◆g/l","U","0.588","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","90-12-0","1-Methylnaphthalene","0.904","◆g/l","J","0.705","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","91-20-3","Naphthalene","2.24","◆g/l","J","0.659","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117","SW846 8270D","RES","SC39093-03","ESAI","91-57-6","2-Methylnaphthalene","0.962","◆g/l","U","0.552","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-GZ-103-091117DUP","SW846 6010C","RES","1716277-DUP1","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","TF1-GZ-103-091117","50","50","0.0500",  
"TF1-GZ-103-091117DUP","SW846 6010C","RES","1716277-DUP1","ESAI","7439-89-6","Iron","45.5","mg/l","R06","0.0089","MDL","TARGET","0.9","0.0800","RDL","YES","-99","TF1-GZ-103-091117","50","50","0.0300",  
"TF1-GZ-103-091117DUP","SW846 6010C","RES","1716277-DUP1","ESAI","7439-95-4","Magnesium","3.66","mg/l","0.0088","MDL","TARGET","0.08","0.0200","RDL","YES","-99","TF1-GZ-103-091117","50","50","0.0100",  
"TF1-GZ-103-091117DUP","SW846 6010C","RES","1716277-DUP1","ESAI","7440-23-5","Sodium","7.12","mg/l","0.0785","MDL","TARGET","0.2","0.500","RDL","YES","-99","TF1-GZ-103-091117","50","50","0.250",  
"TF1-GZ-103-091117DUP","SW846 6010C","RES","1716277-DUP1","ESAI","7440-70-2","Calcium","28.8","mg/l","0.0142","MDL","TARGET","0.9","0.200","RDL","YES","-99","TF1-GZ-103-091117","50","50","0.0500",  
"TF1-GZ-103-091117DUP","SW846 6010C","RES","1716530-DUP1","ESAI","7440-09-7","Potassium","3.36","mg/l","0.120","MDL","TARGET","0.9","1.00","RDL","YES","-99","TF1-GZ-103-091117","50","50","0.250",  
"TF1-GZ-103-091117DUP","SW846 8270D","RES","1715919-DUP1","ESAI","1146-65-2","Naphthalene-d8","40.0","◆g/ml","-99","NA","ISTD","113","-99","NA","YES","40.0","TF1-GZ-103-091117","1060","1","-99",  
"TF1-GZ-103-091117DUP","SW846 8270D","RES","1715919-DUP1","ESAI","120-12-7","Anthracene","0.943","◆g/l","U","0.574","MDL","TARGET","4.72","RDL","YES","-99","TF1-GZ-103-091117","1060","1","0.943",  
"TF1-GZ-103-091117DUP","SW846 8270D","RES","1715919-DUP1","ESAI","129-00-0","Pyrene","0.943","◆g/l","U","0.575","MDL","TARGET","4.72","RDL","YES","-99","TF1-GZ-103-091117","1060","1","0.943",  
"TF1-GZ-103-091117DUP","SW846 8270D","RES","1715919-DUP1","ESAI","15067-26-2","Acenaphthene-d10","40.0","◆g/ml","-99","NA","ISTD","110","-99","NA","YES","40.0","TF1-GZ-103-091117","1060","1","-99",  
"TF1-GZ-103-091117DUP","SW846 8270D","RES","1715919-DUP1","ESAI","1517-22-2","Phenanthrene-d10","40.0","◆g/ml","-99","NA","ISTD","109","-99","NA","YES","40.0","TF1-GZ-103-091117","1060","1","-99",  
"TF1-GZ-103-091117DUP","SW846 8270D","RES","1715919-DUP1","ESAI","1520-96-3","Perylene-d12","40.0","◆g/ml","-99","NA","ISTD","109","-99","NA","YES","40.0","TF1-GZ-103-091117","1060","1","-99",  
"TF1-GZ-103-091117DUP","SW846 8270D","RES","1715919-DUP1","ESAI","1718-51-0","Terphenyl-d14","38.2","◆g/l","-99","NA","SUR","81","-99","NA","YES","47.2","TF1-GZ-103-091117","1060","1","-99",  
"TF1-GZ-103-091117DUP","SW846 8270D","RES","1715919-DUP1","ESAI","1719-03-5","Chrysene-d12","40.0","◆g/ml","-99","NA","ISTD","111","-99","NA","YES","40.0","TF1-GZ-103-091117","1060","1","-99",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "191-24-2", "Benzo (g,h,i) perylene", "0.943", "g/l", "U", "0.500", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "193-39-5", "Indeno (1,2,3-cd) pyrene", "0.943", "g/l", "U", "0.547", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "205-99-2", "Benzo (b) fluoranthene", "0.943", "g/l", "U", "0.412", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "206-44-0", "Fluoranthene", "0.943", "g/l", "U", "0.602", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "207-08-9", "Benzo (k) fluoranthene", "0.943", "g/l", "U", "0.453", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "208-96-8", "Acenaphthylene", "0.943", "g/l", "U", "0.644", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "218-01-9", "Chrysene", "0.943", "g/l", "U", "0.502", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "321-60-8", "2-Fluorobiphenyl", "31.0", "g/l", "-99", "NA", "SUR", "66", "-99", "NA", "YES", "47.2", "TF1-GZ-103-091117", "1060", "1", "-99",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "4165-60-0", "Nitrobenzene-d5", "30.2", "g/l", "-99", "NA", "SUR", "64", "-99", "NA", "YES", "47.2", "TF1-GZ-103-091117", "1060", "1", "-99",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "50-32-8", "Benzo (a) pyrene", "0.943", "g/l", "U", "0.530", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "53-70-3", "Dibenzo (a,h) anthracene", "0.943", "g/l", "U", "0.425", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "56-55-3", "Benzo (a) anthracene", "0.943", "g/l", "U", "0.506", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "83-32-9", "Acenaphthene", "0.943", "g/l", "U", "0.652", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "85-01-8", "Phenanthrene", "0.943", "g/l", "U", "0.553", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "86-73-7", "Fluorene", "0.943", "g/l", "U", "0.577", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "90-12-0", "1-Methylnaphthalene", "0.991", "g/l", "J", "0.692", "MDL", "TARGET", "9", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "91-20-3", "Naphthalene", "2.45", "g/l", "J", "0.646", "MDL", "TARGET", "9", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117DUP", "SW846 8270D", "RES", "1715919-DUP1", "ESAI", "91-57-6", "2-Methylnaphthalene", "0.943", "g/l", "U", "0.542", "MDL", "TARGET", "4.72", "RDL", "YES", "-99", "TF1-GZ-103-091117", "1060", "1", "0.943",

"TF1-GZ-103-091117MS", "SW846 6010C", "RES", "1716277-MS1", "ESAI", "7429-90-5", "Aluminum", "2.62", "mg/l", "0.0206", "MDL", "SPIKE", "105", "0.0500", "RDL", "YES", "2.50", "TF1-GZ-103-091117", "50", "50", "0.0500",

"TF1-GZ-103-091117MS", "SW846 6010C", "RES", "1716277-MS1", "ESAI", "7439-89-

6","Iron","48.0","mg/l","QM2","0.0089","MDL","SPIKE","83","0.0800","RDL","YES","2.50","TF1-GZ-103-091117","50","50","0.0300",  
"TF1-GZ-103-091117MS","SW846 6010C","RES","1716277-MS1","ESAI","7439-95-4","Magnesium","6.18","mg/l","0.0088","MDL","SPIKE","101","0.0200","RDL","YES","2.50","TF1-GZ-103-091117","50","50","0.0100",  
"TF1-GZ-103-091117MS","SW846 6010C","RES","1716277-MS1","ESAI","7440-23-5","Sodium","19.2","mg/l","0.0785","MDL","SPIKE","97","0.500","RDL","YES","12.5","TF1-GZ-103-091117","50","50","0.250",  
"TF1-GZ-103-091117MS","SW846 6010C","RES","1716277-MS1","ESAI","7440-70-2","Calcium","41.0","mg/l","0.0142","MDL","SPIKE","95","0.200","RDL","YES","12.5","TF1-GZ-103-091117","50","50","0.0500",  
"TF1-GZ-103-091117MS","SW846 6010C","RES","1716530-MS1","ESAI","7440-09-7","Potassium","28.0","mg/l","0.120","MDL","SPIKE","98","1.00","RDL","YES","25.0","TF1-GZ-103-091117","50","50","0.250",  
"TF1-GZ-103-091117MSD","SW846 6010C","RES","1716277-MSD1","ESAI","7429-90-5","Aluminum","2.61","mg/l","0.0206","MDL","SPIKE","104","0.2","0.0500","RDL","YES","2.50","TF1-GZ-103-091117","50","50","0.0500",  
"TF1-GZ-103-091117MSD","SW846 6010C","RES","1716277-MSD1","ESAI","7439-89-6","Iron","47.3","mg/l","QM2","0.0089","MDL","SPIKE","59","1","0.0800","RDL","YES","2.50","TF1-GZ-103-091117","50","50","0.0300",  
"TF1-GZ-103-091117MSD","SW846 6010C","RES","1716277-MSD1","ESAI","7439-95-4","Magnesium","6.08","mg/l","0.0088","MDL","SPIKE","97","2","0.0200","RDL","YES","2.50","TF1-GZ-103-091117","50","50","0.0100",  
"TF1-GZ-103-091117MSD","SW846 6010C","RES","1716277-MSD1","ESAI","7440-23-5","Sodium","19.0","mg/l","0.0785","MDL","SPIKE","95","1","0.500","RDL","YES","12.5","TF1-GZ-103-091117","50","50","0.250",  
"TF1-GZ-103-091117MSD","SW846 6010C","RES","1716277-MSD1","ESAI","7440-70-2","Calcium","41.2","mg/l","0.0142","MDL","SPIKE","98","0.7","0.200","RDL","YES","12.5","TF1-GZ-103-091117","50","50","0.0500",  
"TF1-GZ-103-091117MSD","SW846 6010C","RES","1716530-MSD1","ESAI","7440-09-7","Potassium","28.8","mg/l","0.120","MDL","SPIKE","101","3","1.00","RDL","YES","25.0","TF1-GZ-103-091117","50","50","0.250",  
"TF1-GZ-103-091117PS","SW846 6010C","RES","1716277-PS1","ESAI","7429-90-5","Aluminum","2.68","mg/l","0.0206","MDL","SPIKE","107","0.0500","RDL","YES","2.50","TF1-GZ-103-091117","50","50","0.0500",  
"TF1-GZ-103-091117PS","SW846 6010C","RES","1716277-PS1","ESAI","7439-89-6","Iron","50.4","mg/l","QM2","0.0089","MDL","SPIKE","182","0.0800","RDL","YES","2.50","TF1-GZ-103-091117","50","50","0.0300",  
"TF1-GZ-103-091117PS","SW846 6010C","RES","1716277-PS1","ESAI","7439-95-4","Magnesium","6.44","mg/l","0.0088","MDL","SPIKE","111","0.0200","RDL","YES","2.50","TF1-GZ-103-091117","50","50","0.0100",  
"TF1-GZ-103-091117PS","SW846 6010C","RES","1716277-PS1","ESAI","7440-23-5","Sodium","19.6","mg/l","0.0785","MDL","SPIKE","100","0.500","RDL","YES","12.5","TF1-GZ-103-091117","50","50","0.250",  
"TF1-GZ-103-091117PS","SW846 6010C","RES","1716277-PS1","ESAI","7440-70-2","Calcium","43.6","mg/l","0.0142","MDL","SPIKE","117","0.200","RDL","YES","12.5","TF1-GZ-103-091117","50","50","0.0500",  
"TF1-GZ-103-091117PS","SW846 6010C","RES","1716530-PS1","ESAI","7440-09-7","Potassium","28.6","mg/l","0.120","MDL","SPIKE","101","1.00","RDL","YES","25.0","TF1-GZ-103-091117","50","50","0.250",  
"TF1-TB-091117","SW846 8260C","RES","SC39093-05","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-TB-091117","SW846 8260C","RES","SC39093-05","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-091117","SW846 8260C","RES","SC39093-05","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-TB-091117","SW846 8260C","RES","SC39093-05","ESAI","10061-02-6","trans-1,3-

Dichloropropene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "106-46-7", "1,4-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "106-93-4", "1,2-Dibromoethane  
(EDB)", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "107-06-2", "1,2-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "108-10-1", "4-Methyl-2-pentanone  
(MIBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "108-87-  
2", "Methylcyclohexane", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "108-88-  
3", "Toluene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "108-90-  
7", "Chlorobenzene", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "110-82-  
7", "Cyclohexane", "2.0", "g/l", "U", "0.8", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "120-82-1", "1,2,4-  
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "124-48-  
1", "Dibromochloromethane", "0.3", "g/l", "J", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "127-18-  
4", "Tetrachloroethene", "1.0", "g/l", "U", "0.6", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "156-59-2", "cis-1,2-  
Dichloroethene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "156-60-5", "trans-1,2-  
Dichloroethene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "1634-04-4", "Methyl tert-butyl  
ether", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-091117", "SW846 8260C", "RES", "SC39093-05", "ESAI", "17060-07-0", "1,2-Dichloroethane-  
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SDG: SC39093

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- \* • Matrix Spike/Matrix Spike Duplicate Results
- \* • Laboratory Duplicate Precision
- \* • ICP Serial Dilution Results
- \* • Internal Standard Areas
- \* • Detection Limits

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

### **SURROGATE SPIKE RECOVERIES**

In the PFAS fraction, the %R for surrogate 13C8-PFOSA was below the quality control limit in all samples. The non-detected results reported for perfluorooctane sulfonamide were qualified as estimated (UJ).

### **NOTES**

Trip blank sample TF1-TB-091117 contained chlorodibromomethane at a concentration of 0.3 ug/L. No validation actions were required as all sample results for chlorodibromomethane were nondetects.

The following analytes were detected in the laboratory method blanks at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Reporting Limit (RL) &gt; or &lt;</u>
Calcium	0.0178 mg/L	< RL
Potassium	0.351 mg/L	< RL
Sodium	0.164 mg/L	< RL
Total organic carbon	0.3281 mg/L	< RL

No validation actions were warranted as all sample results were greater than the reporting limit.

No detected results were present the FRB sample.

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

### **EXECUTIVE SUMMARY**

**Laboratory Performance:** Surrogate recoveries were noncompliant in the PFAS fraction.

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

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

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SDG: SC39093

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Tetra Tech, Inc.  
Terri L. Solomon  
Environmental Chemist



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Joseph A. Samchuck  
Data Validation Manager

Attachments:

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

### Data Qualifier Definitions

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

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

**Appendix A**

Qualified Analytical Results

**Qualifier Codes:**

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

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: OV</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-119-091117			TF1-GT-121-091117			TF1-GZ-103-091117			TF1-TB-091117		
	LAB_ID	SC39093-02			SC39093-01			SC39093-03			SC39093-05		
	SAMP_DATE	9/11/2017			9/11/2017			9/11/2017			9/11/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U		1	U		1	U		1	U		
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U		
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U		
1,2,3-TRICHLOROBENZENE	1	U		1	U		1	U		1	U		
1,2,4-TRICHLOROBENZENE	1	U		1	U		1	U		1	U		
1,2-DIBROMO-3-CHLOROPROPANE	2	U		2	U		2	U		2	U		
1,2-DIBROMOETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U		
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U		
1,3-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
2-BUTANONE	2	U		2	U		2	U		2	U		
2-HEXANONE	2	U		2	U		2	U		2	U		
4-METHYL-2-PENTANONE	2	U		2	U		2	U		2	U		
ACETONE	2	U		2	U		2	U		2	U		
BENZENE	0.5	U		1.3			29.6			0.5	U		
BROMOCHLOROMETHANE	1	U		1	U		1	U		1	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	1	U		1	U		1	U		1	U		
BROMOMETHANE	2	U		2	U		2	U		2	U		
CARBON DISULFIDE	1	U		1	U		1	U		1	U		
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.5	U		0.5	U		0.5	U		0.3	J	P	
CHLOROETHANE	2	U		2	U		2	U		2	U		
CHLOROFORM	1	U		1	U		1	U		1	U		
CHLOROMETHANE	1	U		1	U		1	U		1	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.5	U		0.5	U		0.5	U		0.5	U		
CYCLOHEXANE	2	U		3.9	J	P	14.1			2	U		
DICHLORODIFLUOROMETHANE	2	U		2	U		2	U		2	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: OV</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-119-091117			TF1-GT-121-091117			TF1-GZ-103-091117			TF1-TB-091117		
	LAB_ID	SC39093-02			SC39093-01			SC39093-03			SC39093-05		
	SAMP_DATE	9/11/2017			9/11/2017			9/11/2017			9/11/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ETHYLBENZENE	0.5	U		2.4			3.2			0.5	U		
ISOPROPYLBENZENE	1	U		2.1			2.1			1	U		
M+P-XYLENES	1	U		0.6	J	P	7.4			1	U		
METHYL ACETATE	2	U		2	U		2	U		2	U		
METHYL CYCLOHEXANE	2	U		1	J	P	4.4	J	P	2	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		8			0.5	U		
METHYLENE CHLORIDE	2	U		2	U		2	U		2	U		
O-XYLENE	1	U		1	U		0.6	J	P	1	U		
STYRENE	1	U		1	U		1	U		1	U		
TETRACHLOROETHENE	1	U		1	U		1	U		1	U		
TOLUENE	1	U		2.5			3.8			1	U		
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U		1	U		
TRANS-1,3-DICHLOROPROPENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRICHLOROETHENE	1	U		1	U		1	U		1	U		
TRICHLOROFLUOROMETHANE	1	U		1	U		1	U		1	U		
VINYL CHLORIDE	1	U		1	U		1	U		1	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: OS</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-119-091117			TF1-GT-121-091117			TF1-GZ-103-091117		
	LAB_ID	SC39093-02			SC39093-01			SC39093-03		
	SAMP_DATE	9/11/2017			9/11/2017			9/11/2017		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1-METHYLNAPHTHALENE	1	U		0.943	U		0.904	J	P	
2-METHYLNAPHTHALENE	1	U		0.943	U		0.962	U		
ACENAPHTHENE	1	U		0.943	U		0.962	U		
ACENAPHTHYLENE	1	U		0.943	U		0.962	U		
ANTHRACENE	1	U		0.943	U		0.962	U		
BENZO(A)ANTHRACENE	1	U		0.943	U		0.962	U		
BENZO(A)PYRENE	1	U		0.943	U		0.962	U		
BENZO(B)FLUORANTHENE	1	U		0.943	U		0.962	U		
BENZO(G,H,I)PERYLENE	1	U		0.943	U		0.962	U		
BENZO(K)FLUORANTHENE	1	U		0.943	U		0.962	U		
CHRYSENE	1	U		0.943	U		0.962	U		
DIBENZO(A,H)ANTHRACENE	1	U		0.943	U		0.962	U		
FLUORANTHENE	1	U		0.943	U		0.962	U		
FLUORENE	1	U		0.943	U		0.962	U		
INDENO(1,2,3-CD)PYRENE	1	U		0.943	U		0.962	U		
NAPHTHALENE	1	U		0.943	U		2.24	J	P	
PHENANTHRENE	1	U		0.943	U		0.962	U		
PYRENE	1	U		0.943	U		0.962	U		



<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: PEST</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-119-091117			TF1-GT-121-091117			TF1-GZ-103-091117		
	LAB_ID	SC39093-02			SC39093-01			SC39093-03		
	SAMP_DATE	9/11/2017			9/11/2017			9/11/2017		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
4,4'-DDD	0.019	U		0.019	U		0.02	U		
4,4'-DDE	0.019	U		0.019	U		0.02	U		
4,4'-DDT	0.029	U		0.029	U		0.029	U		
ALACHLOR	0.019	U		0.019	U		0.02	U		
ALDRIN	0.019	U		0.019	U		0.02	U		
ALPHA-BHC	0.019	U		0.019	U		0.02	U		
ALPHA-CHLORDANE	0.019	U		0.019	U		0.02	U		
BETA-BHC	0.019	U		0.019	U		0.02	U		
CHLORDANE	0.063	U		0.063	U		0.064	U		
DELTA-BHC	0.019	U		0.019	U		0.02	U		
DIELDRIN	0.019	U		0.019	U		0.02	U		
ENDOSULFAN I	0.019	U		0.019	U		0.02	U		
ENDOSULFAN II	0.019	U		0.019	U		0.02	U		
ENDOSULFAN SULFATE	0.019	U		0.019	U		0.02	U		
ENDRIN	0.019	U		0.019	U		0.02	U		
ENDRIN ALDEHYDE	0.019	U		0.019	U		0.02	U		
ENDRIN KETONE	0.019	U		0.019	U		0.02	U		
GAMMA-BHC (LINDANE)	0.019	U		0.019	U		0.02	U		
GAMMA-CHLORDANE	0.019	U		0.019	U		0.02	U		
HEPTACHLOR	0.019	U		0.019	U		0.02	U		
HEPTACHLOR EPOXIDE	0.019	U		0.019	U		0.02	U		
METHOXYCHLOR	0.019	U		0.019	U		0.02	U		
TOXAPHENE	0.485	U		0.481	U		0.49	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: OVG</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-119-091117			TF1-GT-121-091117			TF1-GZ-103-091117		
	LAB_ID	SC39093-02			SC39093-01			SC39093-03		
	SAMP_DATE	9/11/2017			9/11/2017			9/11/2017		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ETHANE	5	U		5	U		5	U		
METHANE	2.2	U		38			417			

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: PET</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-119-091117			TF1-GT-121-091117			TF1-GZ-103-091117		
	LAB_ID	SC39093-02			SC39093-01			SC39093-03		
	SAMP_DATE	9/11/2017			9/11/2017			9/11/2017		
	QC_TYPE	NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
TPH (C08-C44)	0.25			0.4			0.37			

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: PFAS</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-FRB-091117			TF1-GT-119-091117			TF1-GT-121-091117			TF1-GZ-103-091117		
	LAB_ID	SC39093-04			SC39093-02			SC39093-01			SC39093-03		
	SAMP_DATE	9/11/2017			9/11/2017			9/11/2017			9/11/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
PENTADECAFLUOROOCCTANOIC ACID	2	U		2	U		15			1	J	P	
PERFLUOROBUTANESULFONIC ACID	3	U		3	U		9			1	J	P	
PERFLUOROBUTANOIC ACID	10	U		10	U		21			10	U		
PERFLUORODECANE SULFONIC ACID	6	U		6	U		6	U		6	U		
PERFLUORODECANOIC ACID	2	U		2	U		0.9	J	P	2	U		
PERFLUORODODECANOIC ACID	2	U		2	U		2	U		2	U		
PERFLUOROHEPTANESULFONIC ACID	6	U		6	U		6	U		6	U		
PERFLUOROHEPTANOIC ACID	2	U		2	U		12			1	J	P	
PERFLUOROHEXANESULFONIC ACID	3	U		3	U		13			3	U		
PERFLUOROHEXANOIC ACID	2	U		2	U		48			8			
PERFLUORONONANOIC ACID	2	U		2	U		2	U		2	U		
PERFLUOROOCCTANE SULFONAMIDE	9	UJ	R	9	UJ	R	9	UJ	R	9	UJ	R	
PERFLUOROOCCTANE SULFONIC ACID	6	U		6	U		2	J	P	6	U		
PERFLUOROPENTANOIC ACID	2	U		2	U		51			11			
PERFLUOROTETRADECANOIC ACID	2	U		2	U		2	U		2	U		
PERFLUOROTRIDECANOIC ACID	2	U		2	U		2	U		2	U		
PERFLUOROUNDECANOIC ACID	3	U		3	U		3	U		3	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: M</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-119-091117						TF1-GT-119-091117-RE			TF1-GT-121-091117		
	LAB_ID	SC39093-02						SC39093-02			SC39093-01		
	SAMP_DATE	9/11/2017						9/11/2017			9/11/2017		
	QC_TYPE	NM						NM			NM		
	UNITS	MG/L						MG/L			MG/L		
	PCT_SOLIDS	0.0			199.0			199.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ALUMINUM	0.0509									0.05	U		
ANTIMONY				0.001	U								
ARSENIC				0.0069									
BARIUM				0.0306									
BERYLLIUM				0.00025	U								
CADMIUM							0.0005	U					
CALCIUM	20.1									14.2			
CHROMIUM				0.002	U								
COBALT				0.0665									
COPPER				0.0069									
IRON	12.9									23.7			
LEAD				0.00024	J	P							
MAGNESIUM	2.36									5.19			
MANGANESE				3.19									
MERCURY	0.0002	U								0.0002	U		
MOLYBDENUM				0.0005	U								
NICKEL				0.0177									
POTASSIUM	2.43									1.15			
SELENIUM				0.001	U								
SILVER				0.00025	U								
SODIUM	4.64									9.05			
THALLIUM				0.00025	U								
VANADIUM				0.0005	U								
ZINC				0.0071	J	P							

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: M</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-121-091117			TF1-GZ-103-091117				
	LAB_ID	SC39093-01			SC39093-03				
	SAMP_DATE	9/11/2017			9/11/2017				
	QC_TYPE	NM			NM				
	UNITS	MG/L			MG/L				
	PCT_SOLIDS	199.0			0.0		199.0		
	DUP_OF								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM				0.05	U				
ANTIMONY	0.001	U					0.001	U	
ARSENIC	0.0191						0.0241		
BARIUM	0.0055						0.0115		
BERYLLIUM	0.00025	U					0.00025	U	
CADMIUM	0.0005	U					0.0005	U	
CALCIUM				29					
CHROMIUM	0.002	U					0.002	U	
COBALT	0.0087						0.00054	J	P
COPPER	0.001	U					0.0053		
IRON				45.9					
LEAD	0.00043	J	P				0.00082	J	P
MAGNESIUM				3.66					
MANGANESE	2.32						2.1		
MERCURY				0.0002	U				
MOLYBDENUM	0.0005	U					0.00028	J	P
NICKEL	0.0053						0.002	U	
POTASSIUM				3.4					
SELENIUM	0.001	U					0.001	U	
SILVER	0.00025	U					0.00025	U	
SODIUM				7.14					
THALLIUM	0.00025	U					0.00025	U	
VANADIUM	0.0005	U					0.0005	U	
ZINC	0.0075	U					0.0075	U	

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC39093</b> <b>FRACTION: MISC</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-119-091117			TF1-GT-121-091117			TF1-GZ-103-091117		
	LAB_ID	SC39093-02			SC39093-01			SC39093-03		
	SAMP_DATE	9/11/2017			9/11/2017			9/11/2017		
	QC_TYPE	NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ALKALINITY	18.2			61.2			105			
BIOCHEMICAL OXYGEN DEMAND	6			6			6			
CHLORIDE	5.98			15.6			11.2			
NITRATE-N	0.011 J		P	0.1 U			0.1 U			
SULFATE	45.2			8.13			1 U			
TOTAL ORGANIC CARBON	2.62			1.99			4.02			

**Appendix B**

Results as Reported by the Laboratory



# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-121-091117

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>09/12/17 17:25</u>
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC39093-01</u>
Sampled: <u>09/11/17 12:35</u>	Prepared: <u>09/14/17 09:41</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>
Batch: <u>1715747</u>	Sequence: <u>S708173</u>
	Calibration: <u>1709004</u>
	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>	

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	1.3		0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	2.4		0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	2.1		0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	2.5		0.3	1.0	1.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-121-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-01                      File ID: 3909301.D  
 Sampled: 09/11/17 12:35                      Prepared: 09/14/17 09:41                      Analyzed: 09/14/17 19:32  
 % Solids:                                      Preparation: SW846 5030 Water MS                      Initial/Final: 5 ml / 5 ml  
 Batch: 1715747                      Sequence: S708173                      Calibration: 1709004                      Instrument: HPV3  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	0.6	J	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	3.9	J	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	1.0	J	0.7	2.0	5.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-119-091117

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>09/12/17 17:25</u>
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC39093-02</u>
Sampled: <u>09/11/17 13:35</u>	Prepared: <u>09/14/17 09:41</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>
Batch: <u>1715747</u>	Sequence: <u>S708173</u>
	Calibration: <u>1709004</u>
	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>	

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

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-119-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-02                      File ID: 3909302.D  
 Sampled: 09/11/17 13:35                      Prepared: 09/14/17 09:41                      Analyzed: 09/14/17 20:01  
 % Solids:                                      Preparation: SW846 5030 Water MS                      Initial/Final: 5 ml / 5 ml  
 Batch: 1715747                      Sequence: S708173                      Calibration: 1709004                      Instrument: HPV3  
 Reported to: LOD

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

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GZ-103-091117

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>09/12/17 17:25</u>
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC39093-03</u>
Sampled: <u>09/11/17 15:50</u>	Prepared: <u>09/14/17 09:41</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>
Batch: <u>1715747</u>	Sequence: <u>S708173</u>
	Calibration: <u>1709004</u>
	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>	

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	29.6		0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	3.2		0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	2.1		0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	8.0		0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	3.8		0.3	1.0	1.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GZ-103-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-03                      File ID: 3909303.D  
 Sampled: 09/11/17 15:50                      Prepared: 09/14/17 09:41                      Analyzed: 09/14/17 20:30  
 % Solids:                                      Preparation: SW846 5030 Water MS                      Initial/Final: 5 ml / 5 ml  
 Batch: 1715747                      Sequence: S708173                      Calibration: 1709004                      Instrument: HPV3  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	7.4		0.4	1.0	2.0
95-47-6	o-Xylene	1	0.6	J	0.3	1.0	1.0
110-82-7	Cyclohexane	1	14.1		0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	4.4	J	0.7	2.0	5.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-TB-091117

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>09/12/17 17:25</u>		
Matrix: <u>QC</u>	Laboratory ID: <u>SC39093-05</u>	File ID: <u>3909305.D</u>	
Sampled: <u>09/11/17 08:30</u>	Prepared: <u>09/14/17 09:41</u>	Analyzed: <u>09/14/17 20:59</u>	
% Solids:	Preparation: <u>SW846 5030 Water MS</u>	Initial/Final: <u>5 ml / 5 ml</u>	
Batch: <u>1715747</u>	Sequence: <u>S708173</u>	Calibration: <u>1709004</u>	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>			

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

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-TB-091117

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>09/12/17 17:25</u>		
Matrix: <u>QC</u>	Laboratory ID: <u>SC39093-05</u>	File ID: <u>3909305.D</u>	
Sampled: <u>09/11/17 08:30</u>	Prepared: <u>09/14/17 09:41</u>	Analyzed: <u>09/14/17 20:59</u>	
% Solids:	Preparation: <u>SW846 5030 Water MS</u>	Initial/Final: <u>5 ml / 5 ml</u>	
Batch: <u>1715747</u>	Sequence: <u>S708173</u>	Calibration: <u>1709004</u>	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>			

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



**FORM I - ORGANIC ANALYSIS DATA SHEET**

**SW846 8270D**

TF1-GT-121-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-01                      File ID: C3909301.D  
 Sampled: 09/11/17 12:35                      Prepared: 09/18/17 08:00                      Analyzed: 09/20/17 22:35  
 % Solids:                                      Preparation: SW846 3510C                      Initial/Final: 1060 ml / 1 ml  
 Batch: 1715919                      Sequence: S708501                      Calibration: 1709033                      Instrument: HPS5  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.943	U	0.652	0.943	4.72
208-96-8	Acenaphthylene	1	0.943	U	0.644	0.943	4.72
120-12-7	Anthracene	1	0.943	U	0.574	0.943	4.72
56-55-3	Benzo (a) anthracene	1	0.943	U	0.506	0.943	4.72
50-32-8	Benzo (a) pyrene	1	0.943	U	0.530	0.943	4.72
205-99-2	Benzo (b) fluoranthene	1	0.943	U	0.412	0.943	4.72
191-24-2	Benzo (g,h,i) perylene	1	0.943	U	0.500	0.943	4.72
207-08-9	Benzo (k) fluoranthene	1	0.943	U	0.453	0.943	4.72
218-01-9	Chrysene	1	0.943	U	0.502	0.943	4.72
53-70-3	Dibenzo (a,h) anthracene	1	0.943	U	0.425	0.943	4.72
206-44-0	Fluoranthene	1	0.943	U	0.602	0.943	4.72
86-73-7	Fluorene	1	0.943	U	0.577	0.943	4.72
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.943	U	0.547	0.943	4.72
90-12-0	1-Methylnaphthalene	1	0.943	U	0.692	0.943	4.72
91-57-6	2-Methylnaphthalene	1	0.943	U	0.542	0.943	4.72
91-20-3	Naphthalene	1	0.943	U	0.646	0.943	4.72
85-01-8	Phenanthrene	1	0.943	U	0.553	0.943	4.72
129-00-0	Pyrene	1	0.943	U	0.575	0.943	4.72



# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-GZ-103-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-03                      File ID: C3909303.D  
 Sampled: 09/11/17 15:50                      Prepared: 09/18/17 08:00                      Analyzed: 09/20/17 23:39  
 % Solids:                                      Preparation: SW846 3510C                      Initial/Final: 1040 ml / 1 ml  
 Batch: 1715919                      Sequence: S708501                      Calibration: 1709033                      Instrument: HPS5  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.962	U	0.664	0.962	4.81
208-96-8	Acenaphthylene	1	0.962	U	0.657	0.962	4.81
120-12-7	Anthracene	1	0.962	U	0.585	0.962	4.81
56-55-3	Benzo (a) anthracene	1	0.962	U	0.515	0.962	4.81
50-32-8	Benzo (a) pyrene	1	0.962	U	0.540	0.962	4.81
205-99-2	Benzo (b) fluoranthene	1	0.962	U	0.420	0.962	4.81
191-24-2	Benzo (g,h,i) perylene	1	0.962	U	0.510	0.962	4.81
207-08-9	Benzo (k) fluoranthene	1	0.962	U	0.462	0.962	4.81
218-01-9	Chrysene	1	0.962	U	0.512	0.962	4.81
53-70-3	Dibenzo (a,h) anthracene	1	0.962	U	0.433	0.962	4.81
206-44-0	Fluoranthene	1	0.962	U	0.613	0.962	4.81
86-73-7	Fluorene	1	0.962	U	0.588	0.962	4.81
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.962	U	0.558	0.962	4.81
90-12-0	1-Methylnaphthalene	1	0.904	J	0.705	0.962	4.81
91-57-6	2-Methylnaphthalene	1	0.962	U	0.552	0.962	4.81
91-20-3	Naphthalene	1	2.24	J	0.659	0.962	4.81
85-01-8	Phenanthrene	1	0.962	U	0.563	0.962	4.81
129-00-0	Pyrene	1	0.962	U	0.587	0.962	4.81

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

TF1-GT-121-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-01                      File ID: 3909301Z.D  
 Sampled: 09/11/17 12:35                      Prepared: 09/18/17 08:00                      Analyzed: 09/27/17 21:58  
 % Solids:                                      Preparation: SW846 3510C                      Initial/Final: 1040 ml / 10 ml  
 Batch: 1715920                      Sequence: S708605                      Calibration: 1709047                      Instrument: HPS17  
 Injection Volume (uL):     2.00  
 Reported to: LOD

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

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

TF1-GT-119-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-02                      File ID: 3909302Z.D  
 Sampled: 09/11/17 13:35                      Prepared: 09/18/17 08:00                      Analyzed: 09/27/17 22:16  
 % Solids:                                      Preparation: SW846 3510C                      Initial/Final: 1030 ml / 10 ml  
 Batch: 1715920                      Sequence: S708605                      Calibration: 1709047                      Instrument: HPS17  
 Injection Volume (uL):     2.00  
 Reported to: LOD

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

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

TF1-GZ-103-091117

Laboratory: Euofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-03                      File ID: 3909303Z.D  
 Sampled: 09/11/17 15:50                      Prepared: 09/18/17 08:00                      Analyzed: 09/27/17 23:31  
 % Solids:                                      Preparation: SW846 3510C                      Initial/Final: 1020 ml / 10 ml  
 Batch: 1715920                      Sequence: S708605                      Calibration: 1709047                      Instrument: HPS17  
 Injection Volume (uL):      2.00  
 Reported to: LOD

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

# FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-GT-121-091117

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>09/12/17 17:25</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC39093-01</u>	File ID: <u>091517-chanb-004-0</u>	
Sampled: <u>09/11/17 12:35</u>	Prepared: <u>09/15/17 06:00</u>	Analyzed: <u>09/15/17 10:24</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>10 µg / 10 µg</u>	
Batch: <u>1715864</u>	Sequence: <u>S708265</u>	Calibration: <u>1707028</u>	Instrument: <u>Air5</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	38.0		2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

# FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-GT-119-091117

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>09/12/17 17:25</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC39093-02</u>	File ID: <u>091517-chanb-005-0</u>	
Sampled: <u>09/11/17 13:35</u>	Prepared: <u>09/15/17 06:00</u>	Analyzed: <u>09/15/17 10:56</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>10 µg / 10 µg</u>	
Batch: <u>1715864</u>	Sequence: <u>S708265</u>	Calibration: <u>1707028</u>	Instrument: <u>Air5</u>
Reported to: <u>LOD</u>			

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



# FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-GZ-103-091117

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>				
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>				
Project Number:	<u>112608005-WE15</u>	Received:	<u>09/12/17 17:25</u>				
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC39093-03</u>	File ID:	<u>091517-chanb-006-0</u>		
Sampled:	<u>09/11/17 15:50</u>	Prepared:	<u>09/15/17 06:00</u>	Analyzed:	<u>09/15/17 11:18</u>		
% Solids:		Preparation:	<u>General Air Prep</u>	Initial/Final:	<u>10 µg / 10 µg</u>		
Batch:	<u>1715864</u>	Sequence:	<u>S708265</u>	Calibration:	<u>1707028</u>	Instrument:	<u>Air5</u>
Reported to:	<u>LOD</u>						

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	417		2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SW846 6010C**

**TF1-GT-121-091117**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-01                      File ID: 20170926-044  
 Sampled: 09/11/17 12:35                      Prepared: 09/22/17 17:15  
 % Solids:                                      Preparation: SW846 3005A                      Initial/Final: 50 ml / 50 ml  
 Batch: 1716277                      Sequence: S708828                      Calibration: 1710008  
 Instrument: ICAP5  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	23.7		1	0.0089	0.0300	0.0800
7440-09-7	Potassium	1.15		1	0.120	0.250	1.00
7440-23-5	Sodium	9.05		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0500	U	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	14.2		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	5.19		1	0.0088	0.0100	0.0200



# FORM I - INORGANIC ANALYSIS DATA SHEET

**SW846 6010C**

**TF1-GZ-103-091117**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>		
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number:	<u>112608005-WE15</u>	Received:	<u>09/12/17 17:25</u>		
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC39093-03</u>	File ID:	<u>20170926-047</u>
Sampled:	<u>09/11/17 15:50</u>	Prepared:	<u>09/22/17 17:15</u>		
% Solids:		Preparation:	<u>SW846 3005A</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Batch:	<u>1716277</u>	Sequence:	<u>S708828</u>	Calibration:	<u>1710008</u>
Instrument:	<u>ICAP5</u>				
Reported to:	<u>LOD</u>				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	45.9		1	0.0089	0.0300	0.0800
7440-09-7	Potassium	3.40		1	0.120	0.250	1.00
7440-23-5	Sodium	7.14		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0500	U	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	29.0		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	3.66		1	0.0088	0.0100	0.0200

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 245.1/7470A**

**TF1-GT-121-091117**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-01                      File ID: 092517A-066  
 Sampled: 09/11/17 12:35                      Prepared: 09/22/17 17:15  
 % Solids:                                      Preparation: EPA200/SW7000 Series                      Initial/Final: 20 ml / 20 ml  
 Batch: 1716279                      Sequence: S710401                      Calibration: 1711054  
 Instrument: Mercury4  
 Reported to: LOD

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

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 245.1/7470A**

**TF1-GT-119-091117**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-02                      File ID: 092517A-071  
 Sampled: 09/11/17 13:35                      Prepared: 09/22/17 17:15  
 % Solids:                                      Preparation: EPA200/SW7000 Series                      Initial/Final: 20 ml / 20 ml  
 Batch: 1716279                      Sequence: S710401                      Calibration: 1711054  
 Instrument: Mercury4  
 Reported to: LOD

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

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 245.1/7470A**

**TF1-GZ-103-091117**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-03                      File ID: 092517A-072  
 Sampled: 09/11/17 15:50                      Prepared: 09/22/17 17:15  
 % Solids:                                      Preparation: EPA200/SW7000 Series                      Initial/Final: 20 ml / 20 ml  
 Batch: 1716279                      Sequence: S710401                      Calibration: 1711054  
 Instrument: Mercury4  
 Reported to: LOD

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

Sample Description: SC39093-01 Groundwater

ELLE Sample # WW 9240358

Project Name: SC39093

ELLE Group # 1857427

Account # 30891

Collected: 09/11/2017 12:35

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/12/2017 14:22

Agawan MA 01001

TF1-GT-121-091117

09301 SDG#: SAI24-01

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Metals</b>		<b>SW-846 6020A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0191	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0055	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0087	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0010 U	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00043 J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	2.32	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00050 U	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0053	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0075 U	0.0039	0.0075	0.0300	1

### Sample Comments

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063902D	10/12/2017 05:07	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063902C	10/11/2017 21:31	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063902B	10/11/2017 21:31	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063902A	10/11/2017 21:31	Bradley M Berlot	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063902	10/08/2017 21:45	Annamaria Kuhns	1

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



Sample Description: SC39093-02 Groundwater

ELLE Sample # WW 9240359

Project Name: SC39093

ELLE Group # 1857427

Account # 30891

Collected: 09/11/2017 13:35

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/12/2017 14:22

Agawan MA 01001

TF1-GT-119-091117

09302 SDG#: SAI24-02

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Metals</b>		<b>SW-846 6020A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0069	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0306	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0665	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0069	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00024 J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	3.19	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00050 U	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0177	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0071 J	0.0039	0.0075	0.0300	1

### Sample Comments

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063902D	10/12/2017 05:09	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063902C	10/11/2017 21:34	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063902B	10/11/2017 21:34	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063902A	10/11/2017 21:34	Bradley M Berlot	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063902	10/08/2017 21:45	Annamaria Kuhns	1

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

Sample Description: SC39093-03 Groundwater

ELLE Sample # WW 9240360

Project Name: SC39093

ELLE Group # 1857427

Account # 30891

Collected: 09/11/2017 15:50

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/12/2017 14:22

Agawan MA 01001

TF1-GZ-103-091117

09303 SDG#: SAI24-03

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Metals</b>		<b>SW-846 6020A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0241	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0115	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.00054 J	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0053	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00082 J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	2.10	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00028 J	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0020 U	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0075 U	0.0039	0.0075	0.0300	1

### Sample Comments

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063902D	10/12/2017 05:11	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063902C	10/11/2017 21:37	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063902B	10/11/2017 21:37	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063902A	10/11/2017 21:37	Bradley M Berlot	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063902	10/08/2017 21:45	Annamaria Kuhns	1

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

# FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-GT-121-091117

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>		
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number:	<u>112608005-WE15</u>	Received:	<u>09/12/17 17:25</u>		
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC39093-01</u>	File ID:	<u>091217-038</u>
Sampled:	<u>09/11/17 12:35</u>	Prepared:	<u>09/12/17 10:05</u>	Analyzed:	<u>09/12/17 20:46</u>
% Solids:		Preparation:	<u>General Preparation</u>	Initial/Final:	<u>5 ml / 5 ml</u>
Batch:	<u>1715547</u>	Sequence:	<u>S709516</u>	Calibration:	<u>1710011</u>
Instrument:	<u>IC3</u>				
Reported to:	<u>LOD</u>				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	15.6		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	8.13		1	0.798	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.007	0.100	0.100

# FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-GT-119-091117

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>		
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number:	<u>112608005-WE15</u>	Received:	<u>09/12/17 17:25</u>		
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC39093-02</u>	File ID:	<u>091217-039</u>
Sampled:	<u>09/11/17 13:35</u>	Prepared:	<u>09/12/17 10:05</u>	Analyzed:	<u>09/12/17 21:02</u>
% Solids:		Preparation:	<u>General Preparation</u>	Initial/Final:	<u>5 ml / 5 ml</u>
Batch:	<u>1715547</u>	Sequence:	<u>S709516</u>	Calibration:	<u>1710011</u>
Instrument:	<u>IC3</u>				
Reported to:	<u>LOD</u>				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	5.98		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	45.2		1	0.798	1.00	1.00
14797-55-8	Nitrate as N	0.011	J	1	0.007	0.100	0.100

**FORM I - INORGANIC ANALYSIS DATA SHEET**

TF1-GZ-103-091117

**EPA 300.0**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15    Received: 09/12/17 17:25  
Matrix: Ground Water                      Laboratory ID: SC39093-03                      File ID: 091217-040  
Sampled: 09/11/17 15:50                      Prepared: 09/12/17 10:05                      Analyzed: 09/12/17 21:18  
% Solids:                                      Preparation: General Preparation                      Initial/Final: 5 ml / 5 ml  
Batch: 1715547                      Sequence: S709516                      Calibration: 1710011  
Instrument: IC3  
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	11.2		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	1.00	U	1	0.798	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.007	0.100	0.100

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM5310B (00, 11)**

TF1-GT-121-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-01                      File ID: 1716147-006  
 Sampled: 09/11/17 12:35                      Prepared: 09/20/17 16:09                      Analyzed: 09/20/17 18:30  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 40 ml / 40 ml  
 Batch: 1716147                      Sequence: S708405                      Calibration: 1706085  
 Instrument: TOC4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	1.99		1	0.238	0.500	1.00

**FORM I - INORGANIC ANALYSIS DATA SHEET****SM5310B (00, 11)**

TF1-GT-119-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-02                      File ID: 1716147-007  
 Sampled: 09/11/17 13:35                      Prepared: 09/20/17 16:09                      Analyzed: 09/20/17 18:46  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 40 ml / 40 ml  
 Batch: 1716147                      Sequence: S708405                      Calibration: 1706085  
 Instrument: TOC4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	2.62		1	0.238	0.500	1.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM5310B (00, 11)**

**TF1-GZ-103-091117**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-03                      File ID: 1716147-008  
 Sampled: 09/11/17 15:50                      Prepared: 09/20/17 16:09                      Analyzed: 09/20/17 19:03  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 40 ml / 40 ml  
 Batch: 1716147                      Sequence: S708405                      Calibration: 1706085  
 Instrument: TOC4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	4.02		1	0.238	0.500	1.00



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

TF1-GT-121-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-01                      File ID:  
 Sampled: 09/11/17 12:35                      Prepared: 09/13/17 12:30                      Analyzed: 09/18/17 10:45  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 300 ml / 300 ml  
 Batch: 1715712                      Sequence: S708258                      Calibration: UNASSIGNED  
 Instrument: DO Meter  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	6.00		1	2.74	2.97	3.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM18-22 5210B**

TF1-GT-119-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-02                      File ID:  
 Sampled: 09/11/17 13:35                      Prepared: 09/13/17 12:30                      Analyzed: 09/18/17 10:45  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 300 ml / 300 ml  
 Batch: 1715712                      Sequence: S708258                      Calibration: UNASSIGNED  
 Instrument: DO Meter  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	6.00		1	2.74	2.97	3.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM18-22 5210B**

**TF1-GZ-103-091117**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 09/12/17 17:25  
 Matrix: Ground Water                      Laboratory ID: SC39093-03                      File ID:  
 Sampled: 09/11/17 15:50                      Prepared: 09/13/17 12:30                      Analyzed: 09/18/17 10:45  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 300 ml / 300 ml  
 Batch: 1715712                      Sequence: S708258                      Calibration: UNASSIGNED  
 Instrument: DO Meter  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	6.00		1	2.74	2.97	3.00



# FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-GT-119-091117

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>	Received:	<u>09/12/17 17:25</u>
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC39093-02</u>
		File ID:	<u>DTOOL Alk 2017-09-19 1230-014</u>
Sampled:	<u>09/11/17 13:35</u>	Prepared:	<u>09/18/17 10:19</u>
% Solids:		Preparation:	<u>General Preparation</u>
		Initial/Final:	<u>100 ml / 50 ml</u>
Batch:	<u>1715978</u>	Sequence:	
		Calibration:	
Instrument:	<u>Titration</u>		
Reported to:	<u>LOD</u>		

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	18.2		1	0.524	1.50	2.00



Sample Description: SC39093-01 Grab Water

ELLE Sample # WW 9208998

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1850474

Account # 30891

Collected: 09/11/2017 12:35

Eurofins Spectrum Analytical

Submitted: 09/14/2017 09:35

11 Almgren Drive

Reported: 09/28/2017 17:00

Agawan MA 01001

39T01 SDG#: THO39-01

**TF1-GT-121-091117**

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>GC Petroleum Hydrocarbons</b>		<b>SW-846 8015B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
02740	C8-C44	n.a.	0.40	0.050	0.10	0.20	1
02740	Total TPH	n.a.	0.40	0.050	0.10	0.20	1
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1 Modified</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
10954	Perfluorobutanesulfonate	375-73-5	9	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	21	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6	U	2	6	1
10954	Perfluorodecanoic acid	335-76-2	0.9	J	0.5	2	1
10954	Perfluorododecanoic acid	307-55-1	2	U	0.5	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6	U	2	6	1
10954	Perfluoroheptanoic acid	375-85-9	12	U	0.5	2	1
10954	Perfluorohexanesulfonate	355-46-4	13	U	1	3	1
10954	Perfluorohexanoic acid	307-24-4	48	U	0.6	2	1
10954	Perfluorononanoic acid	375-95-1	2	U	0.6	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	2	J	2	6	1
10954	Perfluorooctanoic acid	335-67-1	15	U	0.6	2	1
10954	Perfluoropentanoic Acid	2706-90-3	51	U	0.5	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2	U	0.5	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2	U	0.5	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3	U	1	3	1
10954	PFOSA	754-91-6	9	U	3	9	1

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

### Sample Comments

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172570043A	09/18/2017 15:20	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172570043A	09/15/2017 10:00	Bradley W VanLeuven	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 03:46	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

Sample Description: SC39093-02 Grab Water

ELLE Sample # WW 9208999

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1850474

Account # 30891

Collected: 09/11/2017 13:35

Eurofins Spectrum Analytical

Submitted: 09/14/2017 09:35

11 Almgren Drive

Reported: 09/28/2017 17:00

Agawan MA 01001

TF1-GT-119-091117

39T02 SDG#: THO39-02

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>GC Petroleum Hydrocarbons</b>		<b>SW-846 8015B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
02740	C8-C44	n.a.	0.25	0.050	0.10	0.20	1
02740	Total TPH	n.a.	0.25	0.050	0.10	0.20	1
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1 Modified</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
10954	Perfluorobutanesulfonate	375-73-5	3 U	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	10 U	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	2 U	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	3 U	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	2 U	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6 U	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	2 U	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	2 U	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOSA	754-91-6	9 U	3	9	9	1

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

### Sample Comments

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172570043A	09/18/2017 15:42	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172570043A	09/15/2017 10:00	Bradley W VanLeuven	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 04:06	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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



Sample Description: SC39093-03 Grab Water

ELLE Sample # WW 9209000

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1850474

Account # 30891

Collected: 09/11/2017 15:50

Eurofins Spectrum Analytical

Submitted: 09/14/2017 09:35

11 Almgren Drive

Reported: 09/28/2017 17:00

Agawan MA 01001

TF1-GZ-103-091117

39T03 SDG#: THO39-03

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>GC Petroleum Hydrocarbons</b>		<b>SW-846 8015B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
02740	C8-C44	n.a.	0.37	0.051	0.10	0.20	1
02740	Total TPH	n.a.	0.37	0.051	0.10	0.20	1
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1 Modified</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
10954	Perfluorobutanesulfonate	375-73-5	1 J	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	10 U	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	1 J	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	3 U	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	8	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6 U	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	1 J	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	11	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOSA	754-91-6	9 U	3	9	9	1

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

### Sample Comments

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172570043A	09/18/2017 16:03	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172570043A	09/15/2017 10:00	Bradley W VanLeuven	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 04:27	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

Sample Description: SC39093-04 Grab Water

ELLE Sample # WW 9209001

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1850474

Account # 30891

Collected: 09/11/2017 12:35

Eurofins Spectrum Analytical

Submitted: 09/14/2017 09:35

11 Almgren Drive

Reported: 09/28/2017 17:00

Agawan MA 01001

TF1-FRB-091117

39T04 SDG#: THO39-04

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

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

### Sample Comments

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 04:47	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

**Appendix C**

Support Documentation



Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page 1 of 2

### Special Handling:

Standard TAT - 7 to 10 business days

Rush TAT - Date Needed: \_\_\_\_\_

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

Report To: TETRA TECH  
5 INDUSTRIAL WAY  
SALEM NH, 03079

Telephone #: 603-328-1469  
Project Mgr: STEVE PARKER

Invoice To: MIKE DREYDEN  
EARTH TOXICS INC.  
8875 S. EASTERN AVE  
LAS VEGAS NV 89123

P.O No.: \_\_\_\_\_ Quote #: \_\_\_\_\_

Project No: 112608005-WE15

Site Name: TANK FARM 1, NAUSTA NEWPORT

Location: PORTSMOUTH State: RI

Sampler(s): D. WHALEN, W. PRYOR,  
K. LAMONTAGNE

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>3</sub>PO<sub>4</sub> 11= \_\_\_\_\_ 12= \_\_\_\_\_

### List Preservative Code below:

2 4 2 10

### QA/QC Reporting Notes:

\* additional charges may apply

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water

O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

↑ XI= QC X2= \_\_\_\_\_ X3= \_\_\_\_\_

G= Grab C=Composite

### Containers

### Analysis

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TPH (8015D)	SVCs/PAHs (8270D)	TAL Metals (6020/7470A)	TCL VOCs (8260)	AN-10 (9020A), EDD (6710E), Mh. (2320E)	TDC (5310B)	Disolved Group (PbH-175)	PFAS (537 Med.)	Check if chlorinated	
SC39093d1	TFI-GT-121-091117	9/11/17	1235	G	GW	7	6		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>
02	TFI-GT-119-091117		1335	G	GW	7	6		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>
03	TFI-GZ-103-091117		1550	G	GW	7	6		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>
04	TFI-FRB-091117		1235	G	XI				2									✓	<input type="checkbox"/>
05	TFI-TB-091117		0830	G	XI	1							✓						<input type="checkbox"/>

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

Relinquished by:

Received by:

Date:

Time:

Temp °C

Donald Whalen

Mike Dreyden

9/12/17

11:07

44

EDD format: \_\_\_\_\_

E-mail to: stephen.parker@tetratech.com

Steve Parker

ju

9/12/17

1235

0

7 Jul 2017

44

Condition upon receipt: Custody Seals:  Present  Intact  Broken

Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen



Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page 2 of 2

### Special Handling:

Standard TAT - 7 to 10 business days

Rush TAT - Date Needed: \_\_\_\_\_

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

Report To: TETRA TECH  
5 INDUSTRIAL WAY  
SUITE 2B  
SALEM NH 03079  
Telephone #: 603-328-1467  
Project Mgr: STEVE PARKER

Invoice To: MIKE DREYDEN  
EARTH TOXICS INC.  
8275 S. EASTERN AVE  
LAS VEGAS NV 89123  
P.O No.: \_\_\_\_\_ Quote #: \_\_\_\_\_

Project No: 112G08005  
Site Name: TANK FARM 1, NAUSTA NEWPORT  
Location: PORTSMOUTH State: RI  
Sampler(s): D. WHALEN, W. PRYOR  
K. LAMONTAGNE

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>3</sub>PO<sub>4</sub> 11= \_\_\_\_\_ 12= \_\_\_\_\_

List Preservative Code below:

QA/QC Reporting Notes:

\* additional charges may apply

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

X1= QC X2= \_\_\_\_\_ X3= \_\_\_\_\_

G= Grab

C=Composite

Containers

Analysis

# of VOA Vials  
# of Amber Glass  
# of Clear Glass  
# of Plastic

Pesticides (2081B)  
PCBs (Aroclors, 3082A)

Check if chlorinated

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

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Pesticides (2081B)	PCBs (Aroclors, 3082A)	Check if chlorinated
SC39093-01	TFI-GT-121-091117	9/11/17	1235	G	GW	7	6		5	✓		<input type="checkbox"/>
02	TFI-GT-119-091117		1335	G	GW	7	6		5	✓		<input type="checkbox"/>
03	TFI-GZ-103-091117		1550	G	GW	7	6		5	✓		<input type="checkbox"/>
04	TFI-FRB-091117		1235	G	XI				2			<input type="checkbox"/>
05	TFI-TB-091117		0830	G	XI	1						<input type="checkbox"/>

Relinquished by:

Received by:

Date:

Time:

Temp °C

Donald Whalen

Dave Dec

9/21/17

11:07

Observed  
1.7

EDD format:

E-mail to: stephen.parker@tetratech.com

Dave Dec

JM

9/12/17

1725

Correction Factor  
0

Corrected  
1.7

IR ID #  
CI

Condition upon receipt: Custody Seals:  Present  Intact  Broken

Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen

## SDGSC39093

### SC39093 General Narrative

Eurofins Spectrum Analytical, Inc. submits the enclosed data package for the site characterization of WE15 Tank Farm 1 NAVSTA Newport. Samples submitted for analysis by Tetra Tech, Inc. - Salem, NH. Under this deliverable, analysis results are presented for two QC samples and three Ground Water samples submitted on September 12th, 2017.

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

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

#### 1. Overall Observations:

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

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

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

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this electronic data package, has been authorized by the laboratory director as verified by the following signature.



Christina A. White  
Laboratory Director

Date: 12/06/2017

## Notes and Definitions

<b>BOD1</b>	The oxygen uptake for the dilution water blank exceeded the allowable limits of 0.20 mg/L. As a result, the result for this sample may be biased high.
<b>BOD4</b>	Any difference greater than 30% between the high and low dilutions may indicate the presence of a toxic substance. For this sample, one or more of the dilutions is out of acceptance range and cannot be used to determine the % difference.
<b>CRL3</b>	Low level calibration check failed, reporting limit has been elevated.
<b>QM2</b>	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
<b>R06</b>	MRL raised to correlate to batch QC reporting limits.
<b>Z-2</b>	QC recovery was outside of acceptance range however it was re-run before samples were run and was within the control limits.
<b>BRL</b>	Below the reporting limit and also indicates there are no detections between the MDL and LOQ.
<b>LOD</b>	Limit of Detection
<b>LOQ</b>	Limit of Quantitation

RPD is calculated based on final result.

### Form I 'Q' column

<b>B</b>	The analyte was found in the associated blank as well as the sample.
<b>D</b>	All identified compounds in the analysis are at a secondary dilution factor.
<b>E</b>	The identified compound's concentration exceeds the calibration range of the instrument for this specific analysis.
<b>F</b>	The parameter was positively identified but the associated numerical value is below the LOQ.
<b>J</b>	Compound detected but below the LOQ and above the minimum detection limit (MDL); therefore, the result is an estimated concentration.
<b>N</b>	Included for TIC that indicates presumptive evidence of a compound.
<b>P</b>	Used for a Dual Column target analyte when the concentration difference between the two GC columns is greater than 40%.
<b>U</b>	Compound was analyzed for but not detected. Samples were reported to the LOD.

### Form IIa 'Method' column

This column refers to the instrument used for analysis:

<b>IR</b>	Iris ICP
<b>MS</b>	Thermo ICP/MS
<b>AV</b>	Mercury analyzer

### Form VI 'Q' column

*	indicates that: Mean RF is above the value in the LIMIT column, or Linear COD is below the value in the LIMIT column, or Quad COD is below the value in the LIMIT column
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### Form VII 'Type' column

<b>A</b>	Average of response factor
<b>L</b>	Linear regression
<b>Q</b>	Quadratic equation

**E**            The dilution analysis is not within a control limit of 10%, therefore a chemical or physical interference effect must be suspected.



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Project Name: WE15 Tank Farm 1 NAVSTA Newport  
LL Group #: 1850474

**General Comments:**

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

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

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

Project specific QC samples are not included in this data set

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

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

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

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

**Analysis Specific Comments:****EPA 537 Version 1.1 Modified, Misc. Organics**

Sample #s: 9208998, 9208999, 9209000, 9209001

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

Batch #: 17262001 (Sample number(s): 9208998-9209001 UNSPK: 9208998)

The recovery(ies) for one or more surrogates were below the acceptance window for sample(s) 9208998, 9208999, 9209000, 9209001, Blank, LCS, LCSD, MS

# CROSS REFERENCE TABLE

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

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**Client Sample ID:**

TF1-GT-121-091117

TF1-GT-119-091117

TF1-GZ-103-091117

TF1-TB-091117

**Lab Sample ID:**

SC39093-01

SC39093-02

SC39093-03

SC39093-05

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39093

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39093

### I. RECEIPT

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

### II. HOLDING TIMES

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

### III. METHODS

Analyses were performed according to SW846 8260C.

### IV. PREPARATION

Aqueous samples were prepared according to SW846 5030 Water MS.

### V. INSTRUMENTATION

The following equipment was used to analyze SW846 8260C:

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

### VI. ANALYSIS

#### A. Calibration:

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

In calibration 1709004:

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

This affected the following samples:

TF1-TB-091117, TF1-GZ-103-091117, TF1-GT-121-091117, TF1-GT-119-091117, S708173-CCV2, S708173-CCV1, S707839-ICV1, 1715747-BSD1, 1715747-BS1, 1715747-BLK1

In sample S708173-CCV1:

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Methyl acetate (-22.5%)

This affected the following samples:

1715747-BLK1, 1715747-BS1, 1715747-BSD1, TF1-GT-119-091117, TF1-GT-121-091117, TF1-GZ-103-091117, TF1-TB-091117

**B. Blanks:**

All blanks were within the acceptance criteria.

**C. Surrogates:**

All method criteria were met.

**D. Spikes:**

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

All method criteria were met.

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

No matrix spike or matrix spike duplicates were analyzed.

**E. Duplicates:**

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

**F. Internal Standards:**

Internal standards were within the acceptance criteria.

**G. Samples:**

All method criteria were met.

# FORM II - SURROGATE STANDARD RECOVERY SUMMARY

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
<b>Blank (1715747-BLK1)</b>	100	99	100	97			0
<b>LCS (1715747-BS1)</b>	99	99	98	98			0
<b>LCS Dup (1715747-BSD1)</b>	97	100	97	95			0
<b>TF1-GT-121-091117 (SC39093-01)</b>	98	98	98	98			0
<b>TF1-GT-119-091117 (SC39093-02)</b>	100	98	112	101			0
<b>TF1-GZ-103-091117 (SC39093-03)</b>	98	98	99	99			0
<b>TF1-TB-091117 (SC39093-05)</b>	97	98	98	96			0

**Control Limits**

S1 = 1,2-Dichloroethane-d4	81 - 118
S2 = 4-Bromofluorobenzene	85 - 114
S3 = Dibromofluoromethane	80 - 119
S4 = Toluene-d8	89 - 112

# Column to be used to flag recovery values

\* Values outside of QC limits

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715747

Laboratory ID: 1715747-BS1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/14/17 12:48

Spike ID: 17I0350

File ID: LCS0914A.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	19.3	96	70 - 136
Acetone	20.0	18.4	92	39 - 160
Benzene	20.0	20.1	100	79 - 120
Bromochloromethane	20.0	19.0	95	78 - 123
Bromodichloromethane	20.0	20.9	104	79 - 125
Bromoform	20.0	20.7	104	66 - 130
Bromomethane	20.0	18.4	92	53 - 141
2-Butanone (MEK)	20.0	19.1	96	56 - 143
Carbon disulfide	20.0	19.0	95	64 - 133
Carbon tetrachloride	20.0	19.5	97	72 - 136
Chlorobenzene	20.0	20.7	103	82 - 118
Chloroethane	20.0	19.5	97	60 - 138
Chloroform	20.0	19.7	99	79 - 124
Chloromethane	20.0	21.9	110	50 - 139
1,2-Dibromo-3-chloropropane	20.0	18.1	90	62 - 128
Dibromochloromethane	20.0	19.1	96	74 - 126
1,2-Dibromoethane (EDB)	20.0	19.6	98	77 - 121
1,2-Dichlorobenzene	20.0	20.4	102	80 - 119
1,3-Dichlorobenzene	20.0	21.5	107	80 - 119
1,4-Dichlorobenzene	20.0	20.0	100	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	19.1	96	32 - 152
1,1-Dichloroethane	20.0	21.1	106	77 - 125
1,2-Dichloroethane	20.0	19.1	95	73 - 128
1,1-Dichloroethene	20.0	19.6	98	71 - 131
cis-1,2-Dichloroethene	20.0	19.6	98	78 - 123
trans-1,2-Dichloroethene	20.0	19.0	95	75 - 124
1,2-Dichloropropane	20.0	20.2	101	78 - 128
cis-1,3-Dichloropropene	20.0	19.0	95	75 - 124
trans-1,3-Dichloropropene	20.0	18.7	93	73 - 127
Ethylbenzene	20.0	21.2	106	79 - 121

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8260C**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>HPV3</u>
Batch: <u>1715747</u>	Laboratory ID: <u>1715747-BS1</u>
Preparation: <u>SW846 5030 Water MS</u>	Initial/Final: <u>5 ml / 5 ml</u>
Analyzed: <u>09/14/17 12:48</u>	Spike ID: <u>17I0350</u>
	File ID: <u>LCS0914A.D</u>

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
2-Hexanone (MBK)	20.0	18.1	91	57 - 139
Isopropylbenzene	20.0	20.7	104	72 - 131
Methyl tert-butyl ether	20.0	19.2	96	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	17.1	86	67 - 130
Methylene chloride	20.0	18.6	93	74 - 124
Styrene	20.0	21.4	107	78 - 123
1,1,2,2-Tetrachloroethane	20.0	19.5	97	71 - 121
Tetrachloroethene	20.0	19.4	97	74 - 129
Toluene	20.0	19.8	99	80 - 121
1,2,3-Trichlorobenzene	20.0	18.6	93	69 - 129
1,2,4-Trichlorobenzene	20.0	18.8	94	69 - 130
1,1,1-Trichloroethane	20.0	20.4	102	74 - 131
1,1,2-Trichloroethane	20.0	19.5	98	80 - 119
Trichloroethene	20.0	20.2	101	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	20.7	103	64 - 141
Vinyl chloride	20.0	20.5	102	58 - 137
m,p-Xylene	20.0	22.3	111	80 - 121
o-Xylene	20.0	21.4	107	78 - 122
Cyclohexane	20.0	20.0	100	71 - 130
Methyl acetate	20.0	16.4	82	56 - 136
Methylcyclohexane	20.0	19.8	99	72 - 132

File ID: LCS0914B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,2-Trichlorotrifluoroethane (Freon)	20.0	18.2	91	5	25	70 - 136
Acetone	20.0	18.8	94	3	50	39 - 160
Benzene	20.0	18.9	95	6	25	79 - 120
Bromochloromethane	20.0	17.8	89	6	25	78 - 123
Bromodichloromethane	20.0	19.7	99	6	25	79 - 125

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715747

Laboratory ID: 1715747-BSD1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/14/17 13:17

Spike ID: 17I0350

File ID: LCS0914B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromoform	20.0	19.8	99	4	25	66 - 130
Bromomethane	20.0	18.0	90	2	50	53 - 141
2-Butanone (MEK)	20.0	21.5	108	12	50	56 - 143
Carbon disulfide	20.0	17.8	89	6	25	64 - 133
Carbon tetrachloride	20.0	17.7	88	10	25	72 - 136
Chlorobenzene	20.0	19.9	100	4	25	82 - 118
Chloroethane	20.0	19.1	95	2	50	60 - 138
Chloroform	20.0	19.3	96	2	25	79 - 124
Chloromethane	20.0	20.7	104	6	25	50 - 139
1,2-Dibromo-3-chloropropane	20.0	19.6	98	8	25	62 - 128
Dibromochloromethane	20.0	19.2	96	0.2	50	74 - 126
1,2-Dibromoethane (EDB)	20.0	19.1	96	3	25	77 - 121
1,2-Dichlorobenzene	20.0	20.9	105	2	25	80 - 119
1,3-Dichlorobenzene	20.0	20.4	102	5	25	80 - 119
1,4-Dichlorobenzene	20.0	20.1	100	0.5	25	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	17.5	87	9	50	32 - 152
1,1-Dichloroethane	20.0	19.7	99	7	25	77 - 125
1,2-Dichloroethane	20.0	18.8	94	2	25	73 - 128
1,1-Dichloroethene	20.0	17.7	88	10	25	71 - 131
cis-1,2-Dichloroethene	20.0	18.4	92	6	25	78 - 123
trans-1,2-Dichloroethene	20.0	18.5	92	3	25	75 - 124
1,2-Dichloropropane	20.0	18.6	93	8	25	78 - 128
cis-1,3-Dichloropropene	20.0	18.4	92	3	25	75 - 124
trans-1,3-Dichloropropene	20.0	18.6	93	0.6	25	73 - 127
Ethylbenzene	20.0	20.7	104	2	25	79 - 121
2-Hexanone (MBK)	20.0	19.3	97	6	25	57 - 139
Isopropylbenzene	20.0	19.9	100	4	25	72 - 131
Methyl tert-butyl ether	20.0	18.6	93	3	25	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	17.5	87	2	50	67 - 130
Methylene chloride	20.0	18.3	92	1	25	74 - 124



**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Matrix: Aqueous  
 Batch: 1715747  
 Preparation: SW846 5030 Water MS  
 Analyzed: 09/14/17 13:17

SDG: SC39093  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: HPV3  
 Laboratory ID: 1715747-BSD1  
 Initial/Final: 5 ml / 5 ml  
 Spike ID: 17I0350  
 File ID: LCS0914B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Styrene	20.0	20.6	103	4	25	78 - 123
1,1,2,2-Tetrachloroethane	20.0	19.9	99	2	25	71 - 121
Tetrachloroethene	20.0	18.6	93	4	25	74 - 129
Toluene	20.0	18.7	93	6	25	80 - 121
1,2,3-Trichlorobenzene	20.0	18.7	93	0.8	25	69 - 129
1,2,4-Trichlorobenzene	20.0	18.5	92	2	25	69 - 130
1,1,1-Trichloroethane	20.0	19.0	95	7	25	74 - 131
1,1,2-Trichloroethane	20.0	19.4	97	0.9	25	80 - 119
Trichloroethene	20.0	18.2	91	11	25	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	18.6	93	11	50	64 - 141
Vinyl chloride	20.0	19.7	98	4	25	58 - 137
m,p-Xylene	20.0	20.5	102	8	25	80 - 121
o-Xylene	20.0	20.5	103	4	25	78 - 122
Cyclohexane	20.0	18.8	94	6	30	71 - 130
Methyl acetate	20.0	17.5	88	7	30	56 - 136
Methylcyclohexane	20.0	18.6	93	7	30	72 - 132

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

\* Values outside of QC limits

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

**FORM IV - METHOD BLANK SUMMARY**  
**SW846 8260C**

<u>1715747-BLK1</u>
---------------------

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>		
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Matrix:	<u>Aqueous</u>	Laboratory ID:	<u>1715747-BLK1</u>	File ID:	<u>BK30914A.D</u>
		Preparation:	<u>SW846 5030 Water MS</u>	Initial/Final:	<u>5 ml / 5 ml</u>
Analyzed:	<u>09/14/17 11:51</u>	Instrument:	<u>HPV3</u>		
Batch:	<u>1715747</u>	Sequence:	<u>S708173</u>	Calibration:	<u>1709004</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715747-BS1	LCS0914A.D	09/14/17	12:48
LCS Dup	1715747-BSD1	LCS0914B.D	09/14/17	13:17
TF1-GT-121-091117	SC39093-01	3909301.D	09/14/17	19:32
TF1-GT-119-091117	SC39093-02	3909302.D	09/14/17	20:01
TF1-GZ-103-091117	SC39093-03	3909303.D	09/14/17	20:30
TF1-TB-091117	SC39093-05	3909305.D	09/14/17	20:59

**FORM I - ORGANIC ANALYSIS DATA SHEET**  
**SW846 8260C**

1715747-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Matrix: Aqueous Laboratory ID: 1715747-BLK1 File ID: BK30914A.D  
 Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml  
 Analyzed: 09/14/17 11:51 Instrument: HPV3  
 Batch: 1715747 Sequence: S708173 Calibration: 1709004

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

**FORM I - ORGANIC ANALYSIS DATA SHEET**  
**SW846 8260C**

1715747-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Matrix: Aqueous Laboratory ID: 1715747-BLK1 File ID: BK30914A.D  
 Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml  
 Analyzed: 09/14/17 11:51 Instrument: HPV3  
 Batch: 1715747 Sequence: S708173 Calibration: 1709004

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

# FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708173

Instrument: HPV3

Matrix: Aqueous

Calibration: 1709004

Analyzed: 09/14/17 12:19

File ID: CCV0914A.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	426789	11.15	438231	8.80	1001814	5.48						
Upper Limit	853578	11.65	876462	9.30	2003628	5.98						
Lower Limit	213395	10.65	219116	8.30	500907	4.98						
Sample ID												
Calibration Check (S708173-CCV2)	425057	11.146	447918	8.799	1032480	5.477						
Blank (1715747-BLK1)	397730	11.146	421911	8.799	1010552	5.481						
LCS (1715747-BS1)	447194	11.146	460454	8.803	1074269	5.481						
LCS Dup (1715747-BSD1)	437217	11.146	462035	8.799	1095562	5.481						
TF1-GT-121-091117 (SC39093-01)	415248	11.146	444236	8.799	1037857	5.481						
TF1-GT-119-091117 (SC39093-02)	411980	11.146	436342	8.799	1019568	5.481						
TF1-GZ-103-091117 (SC39093-03)	438461	11.146	464731	8.803	1072908	5.481						
TF1-TB-091117 (SC39093-05)	418596	11.146	448768	8.799	1081248	5.481						

IS1 = 1,4-Dichlorobenzene-d4

IS2 = Chlorobenzene-d5

IS3 = Fluorobenzene

# Column to be used to flag internal standard area values

\* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

**Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS****SW846 8260C****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC39093**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
1,1,2-Trichlorotrifluoroethane (Freon 11)	0.5	1.0	µg/l
Acetone	0.8	10.0	µg/l
Benzene	0.3	1.0	µg/l
Bromochloromethane	0.3	1.0	µg/l
Bromodichloromethane	0.4	0.5	µg/l
Bromoform	0.4	1.0	µg/l
Bromomethane	0.9	2.0	µg/l
2-Butanone (MEK)	1.1	2.0	µg/l
Carbon disulfide	0.4	2.0	µg/l
Carbon tetrachloride	0.4	1.0	µg/l
Chlorobenzene	0.2	1.0	µg/l
Chloroethane	0.6	2.0	µg/l
Chloroform	0.3	1.0	µg/l
Chloromethane	0.4	2.0	µg/l
1,2-Dibromo-3-chloropropane	0.9	2.0	µg/l
Dibromochloromethane	0.3	0.5	µg/l
1,2-Dibromoethane (EDB)	0.2	0.5	µg/l
1,2-Dichlorobenzene	0.3	1.0	µg/l
1,3-Dichlorobenzene	0.3	1.0	µg/l
1,4-Dichlorobenzene	0.3	1.0	µg/l
Dichlorodifluoromethane (Freon12)	0.6	2.0	µg/l
1,1-Dichloroethane	0.3	1.0	µg/l
1,2-Dichloroethane	0.3	1.0	µg/l
1,1-Dichloroethene	0.7	1.0	µg/l
cis-1,2-Dichloroethene	0.3	1.0	µg/l
trans-1,2-Dichloroethene	0.4	1.0	µg/l
1,2-Dichloropropane	0.3	1.0	µg/l
cis-1,3-Dichloropropene	0.4	0.5	µg/l
trans-1,3-Dichloropropene	0.3	0.5	µg/l
Ethylbenzene	0.3	1.0	µg/l
2-Hexanone (MBK)	0.5	2.0	µg/l
Isopropylbenzene	0.4	1.0	µg/l
Methyl tert-butyl ether	0.2	1.0	µg/l
4-Methyl-2-pentanone (MIBK)	0.5	2.0	µg/l
Methylene chloride	0.7	2.0	µg/l
Styrene	0.4	1.0	µg/l
1,1,2,2-Tetrachloroethane	0.3	0.5	µg/l
Tetrachloroethene	0.6	1.0	µg/l
Toluene	0.3	1.0	µg/l

**Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS****SW846 8260C****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC39093**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport

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

PREPARATION BENCH SHEET

1715747

Method No.: U30871140000

Sequence No.: 5708173

Matrix: Aqueous

Prepared using: VOC - SW846 5030 Water MS

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Collection Date	Sample Comments	RE
1715747-BLK1	Blank		QC	5	5				14-Sep-17 06:00		
1715747-BS1	LCS		QC	5	5	1710350			14-Sep-17 06:00		
1715747-BSD1	LCS Dup		QC	5	5	1710350			14-Sep-17 06:00		
1715747-MS1	Matrix Spike		QC	0.25	5	1710212	SC38931-03		06-Sep-17 11:45		
1715747-MSD1	Matrix Spike Dup		QC	0.25	5	1710212	SC38931-03		06-Sep-17 11:45		
SC38931-01	1347170906-01	A	624 Volatiles	5	5			18-Sep-17 16:00	06-Sep-17 11:30	UTC/report one analyte per method	
SC38931-01	1347170906-01	A	8260 CAM-NH	5	5			18-Sep-17 16:00	06-Sep-17 11:30	UTC/report one analyte per method; rr- qcs failed for UTC	
SC38931-02	1347170906-02	B	624 Volatiles	5	5			18-Sep-17 16:00	06-Sep-17 12:05	UTC/report one analyte per method	
SC38931-02	1347170906-02	B	8260 CAM-NH	5	5			18-Sep-17 16:00	06-Sep-17 12:05	UTC/report one analyte per method; rr- qcs failed for UTC	
SC38931-03	1347170906-03	B	524 Full list	5	5				06-Sep-17 11:45	BatchQC	
SC38931-03	1347170906-03	B	624 Volatiles	5	5			18-Sep-17 16:00	06-Sep-17 11:45	UTC/report one analyte per method	
SC38931-03	1347170906-03	B	8260 CAM-NH	5	5			18-Sep-17 16:00	06-Sep-17 11:45	UTC/report one analyte per method; rr 1:20 qc failed for UTC	
SC38931-03	1347170906-03	B	8260 DoD Full	5	5				06-Sep-17 11:45	BatchQC	
SC39024-01	INF	A	8260 DoD Full	5	5			20-Sep-17 16:00	11-Sep-17 11:20	DoD /costum project	
SC39024-02	GAC INF	A	8260 DoD Full	5	5			20-Sep-17 16:00	11-Sep-17 11:15	DoD /costum project	
SC39024-03	GAC MID	A	8260 DoD Full	5	5			20-Sep-17 16:00	11-Sep-17 11:10	DoD /costum project	
SC39024-04	GAC EFF	A	8260 DoD Full	5	5			20-Sep-17 16:00	11-Sep-17 11:05	DoD /costum project	
SC39024-05	EFF	A	8260 DoD Full	5	5			20-Sep-17 16:00	11-Sep-17 11:00	DoD /costum project	
SC39024-06	Trip Blank	A	8260 DoD Full	5	5			20-Sep-17 16:00	11-Sep-17 08:00	DoD /costum project	
SC39093-01	TF1-GT-121-091117	A	8260 DoD Full	5	5			21-Sep-17 16:00	11-Sep-17 12:35	DoD Level IV / @VTCL NJ Compounds.	
SC39093-02	TF1-GT-119-091117	A	8260 DoD Full	5	5			21-Sep-17 16:00	11-Sep-17 13:35	DoD Level IV / @VTCL NJ Compounds.	

[Signature] 9/15/17  
Analyst Reviewed Date

[Signature] 9/15/17  
Manager Reviewed Date

[Signature] 9/15/17  
Sequence Reviewed By Date



**PREPARATION BENCH SHEET**

1715747

Method No.: 170831A000

Sequence No.: 5708173


**Matrix: Aqueous**


**Prepared using: VOC - SW846 5030 Water MS**

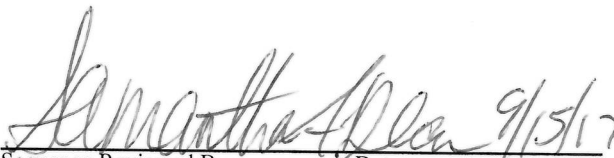
**(No Surrogate)**

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Collection Date	Sample Comments	RE
SC39093-03	TF1-GZ-103-091117	A	8260 DoD Full	5	5			21-Sep-17 16:00	11-Sep-17 15:50	DoD Level IV / @VTCL NJ Compounds.	
SC39093-05	TF1-TB-091117	A	8260 DoD Full	5	5			21-Sep-17 16:00	11-Sep-17 08:30	DoD Level IV / @VTCL NJ Compounds.	
SC39101-04	1370810	A	8260 CAM-NH	5	5			18-Sep-17 15:00	11-Sep-17 08:25	RCP/UTC/RES DEC/RES VC/GWPC/SWPC	
SC39111-01	1370806	A	8260 CAM-NH	5	5			18-Sep-17 15:00	12-Sep-17 09:02	RCP/UTC/RES DEC/RES VC/GWPC/SWPC	
SC39164-01	Influent	A	524 Full list	5	5			15-Sep-17 14:00	13-Sep-17 00:00	See attached for limits & compounds	
SC39164-01	Influent	A	624 Volatiles	5	5			15-Sep-17 14:00	13-Sep-17 00:00	See attached for limits & compounds	
SC39164-02	Effluent	A	524 Full list	5	5			15-Sep-17 14:00	13-Sep-17 00:00	See attached for limits & compounds	
SC39164-02	Effluent	A	624 Volatiles	5	5			15-Sep-17 14:00	13-Sep-17 00:00	See attached for limits & compounds	

HPV3  
9/14/17A

 9/15/17  
Analyst Reviewed Date

 09/15/17  
Manager Reviewed Date

 9/15/17  
Sequence Reviewed By Date

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S707839

Instrument: HPV3

Calibration: 1709004

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S707839-TUN1	VCAL000.D	08/31/17 11:41
Cal Standard	S707839-CAL1	DAPRTMTH-001	08/31/17 11:41
Low Cal Check	S707839-LCV1	VCAL000.D	08/31/17 11:41
Cal Standard	S707839-CAL2	DAPRTMTH-002	08/31/17 12:10
Low Cal Check	S707839-LCV2	VCAL001.D	08/31/17 12:10
Cal Standard	S707839-CAL3	DAPRTMTH-003	08/31/17 12:39
Cal Standard	S707839-CAL4	DAPRTMTH-004	08/31/17 13:08
Cal Standard	S707839-CAL5	DAPRTMTH-005	08/31/17 13:37
Cal Standard	S707839-CAL6	DAPRTMTH-006	08/31/17 14:06
Cal Standard	S707839-CAL7	DAPRTMTH-007	08/31/17 14:34
Cal Standard	S707839-CAL8	DAPRTMTH-008	08/31/17 15:03
Cal Standard	S707839-CAL9	DAPRTMTH-009	08/31/17 15:32
Cal Standard	S707839-CALA	DAPRTMTH-010	08/31/17 16:01
Cal Standard	S707839-CALB	DAPRTMTH-011	08/31/17 16:58
Initial Cal Check	S707839-ICV1	ICV0831A.D	08/31/17 17:56

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708173

Instrument: HPV3

Calibration: 1709004

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S708173-TUN1	BK30914A.D	09/14/17 11:51
Blank	1715747-BLK1	BK30914A.D	09/14/17 11:51
Calibration Check	S708173-CCV1	CCV0914A.D	09/14/17 12:19
LCS	1715747-BS1	LCS0914A.D	09/14/17 12:48
LCS Dup	1715747-BSD1	LCS0914B.D	09/14/17 13:17
TF1-GT-121-091117	SC39093-01	3909301.D	09/14/17 19:32
TF1-GT-119-091117	SC39093-02	3909302.D	09/14/17 20:01
TF1-GZ-103-091117	SC39093-03	3909303.D	09/14/17 20:30
TF1-TB-091117	SC39093-05	3909305.D	09/14/17 20:59
Calibration Check	S708173-CCV2	CCC0914B.D	09/14/17 23:23

2017 Aug 31 0833 Sequence Log  
Starting sequence Thu Aug 31 08: 33: 53 2017

Instrument Name: HP-3  
Sequence File: C:\msdchem\1\sequence\083117.s  
Comment:  
Operator: GMA  
Data Path: G:\AUG2017\HPV3\0831\  
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	BK30831A	V3030217	-BLK1 @ System Blank / bfb tune
2)	Sample	1	BK30831B	V3030217	-BLK1 @ System Blank / bfb tune
3)	Sample	2	CCV0831A	V3030217	SEQ-CCV1 @ 20PPB CCV
4)	Sample	3	LCS0831A	V3030217	-BS1 @ Prepared VOC QC- 20ppb
5)	Sample	3	LCS0831B	V3030217	-BSD1 @ Prepared VOC QC- 20ppb
6)	Sample	4	BROM01	V3030217	BROMOFORM STD
7)	Sample	5	VCAL000	V3030217	SEQ-CAL1 @ 0.5 PPB
8)	Sample	6	VCAL001	V3030217	SEQ-CAL2 @ 1 PPB
9)	Sample	7	VCAL002	V3030217	SEQ-CAL3 @ 2 PPB
10)	Sample	8	VCAL005	V3030217	SEQ-CAL4 @ 5 PPB
11)	Sample	9	VCAL010	V3030217	SEQ-CAL5 @ 10 PPB
12)	Sample	10	VCAL015	V3030217	SEQ-CAL6 @ 15 PPB
13)	Sample	11	VCAL020	V3030217	SEQ-CAL7 @ 20 PPB
14)	Sample	12	VCAL025	V3030217	SEQ-CAL8 @ 25 PPB
15)	Sample	13	VCAL040	V3030217	SEQ-CAL9 @ 40 PPB
16)	Sample	14	VCAL050	V3030217	SEQ-CAL10 @ 50 PPB
17)	Sample	15	BLK102	V3030217	BLANK
18)	Sample	16	VCAL100	V3030217	SEQ-CALB @ 100 PPB
19)	Sample	17	BLK103	V3030217	BLANK
20)	Sample	18	ICV0831A	V3030217	SEQ-ICV1 @ 20 PPB
21)	Sample	19	BLK104	V3030217	BLANK

Sequence completed Thu Aug 31 18: 43: 22 2017

G:\AUG2017\HPV3\0831\2017 Aug 31 0833 Quality Log.LOG  
G:\AUG2017\HPV3\0831\2017 Aug 31 0833 Sequence Log.LOG

Method: V3083117DOD.M  
 Calibration: 1709004  
 Internal Standard ID: 17H0825  
 Run Method: V3030217

Batch: 1715747  
 Sequence: S708173 (HPV3)  
 Matrix: Aqueous

Date: 9/14/2017  
 Analyst Initials: GMA  
 Cont. from pg. #: \_\_\_\_\_  
 Syringes: \_\_\_\_\_

10uL = SN16548, 25uL = SN16533, 50uL = SN16521, 500uL = SN16535, 1mL = SN16795

Position	Lab ID	Client ID	DF	Analysis	Vial (g)	Vial + Soil (g)	Soil (g)	pH/KI (check box if pH<2)	Standard ID & Comments
1	BK30914A	S708173-TUN1 @ System Blank / bfb tune						<input type="checkbox"/>	
2	CCC0914A	S708173-CCV1 @ Prepared VOC QC- 20ppb						<input type="checkbox"/>	1710350
3	LCS0914A	1715747-BS1 @ Prepared VOC QC- 20ppb						<input type="checkbox"/>	1710350
3	LCS0914B	1715747-BSD1 @ Prepared VOC QC- 20ppb						<input type="checkbox"/>	1710350
4	SC38931-03M	1715747-MS1 @ 1347170906-03	20					<input type="checkbox"/>	1710212
5	SC38931-03R	1715747-MSD1 @ 1347170906-03	20					<input type="checkbox"/>	1710212
6	BROM01	BROMOFORM STD						<input type="checkbox"/>	
7	SC38931-01	1347170906-01	R--	824 Volatiles 8260 CAM-NH				<input checked="" type="checkbox"/>	
8	SC38931-02	1347170906-02	R--	824 Volatiles 8260 CAM-NH				<input checked="" type="checkbox"/>	
9	SC38931-03	1347170906-03	20	524 Full list 824 Volatiles				<input checked="" type="checkbox"/>	
10	SC39024-01	INF	5	8260 DoD Full List				<input checked="" type="checkbox"/>	
11	SC39024-02	GAC INF	R--	8260 DoD Full List				<input checked="" type="checkbox"/>	
12	SC39024-03	GAC MID	R--	8260 DoD Full List				<input checked="" type="checkbox"/>	
13	SC39024-04	GAC EFF	R--	8260 DoD Full List				<input checked="" type="checkbox"/>	
14	SC39024-05	EFF	R--	8260 DoD Full List				<input checked="" type="checkbox"/>	
15	SC39024-06	Trip Blank	R--	8260 DoD Full List				<input checked="" type="checkbox"/>	
16	SC39093-01	TF1-GT-121-091117	R--	8260 DoD Full List				<input checked="" type="checkbox"/>	
17	SC39093-02	TF1-GT-119-091117	R--	8260 DoD Full List				<input checked="" type="checkbox"/>	
18	SC39093-03	TF1-GZ-103-091117	R--	8260 DoD Full List				<input checked="" type="checkbox"/>	
19	SC39093-05	TF1-TB-091117	R--	8260 DoD Full List				<input checked="" type="checkbox"/>	
20	SC39101-04	1370810	R--	8260 CAM-NH				<input checked="" type="checkbox"/>	
21	SC39111-01	1370806	R--	8260 CAM-NH				<input checked="" type="checkbox"/>	
22	SC39164-01	Influent	R--	524 Full list 824 Volatiles				<input checked="" type="checkbox"/>	
23	SC39164-02	Effluent	R--	524 Full list 824 Volatiles				<input checked="" type="checkbox"/>	
24	CCC0914B	S708173-CCV2 @ Prepared VOC QC- 20ppb						<input type="checkbox"/>	1710350

Signature of Analyst: W

Date: 9/14/17

Signature of Witness: JAO

Date: 9/14/17

# CROSS REFERENCE TABLE

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Project Number: 112608005-WE15

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**Client Sample ID:**

TF1-GT-121-091117

TF1-GT-119-091117

TF1-GZ-103-091117

**Lab Sample ID:**

SC39093-01

SC39093-02

SC39093-03

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39093

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39093

### I. RECEIPT

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

### II. HOLDING TIMES

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

### III. METHODS

Analyses were performed according to SW846 8270D.

### IV. PREPARATION

Aqueous samples were prepared according to SW846 3510C.

### V. INSTRUMENTATION

The following equipment was used to analyze SW846 8270D:

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

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Surrogates:

All method criteria were met.

#### D. Spikes:

##### 1. Laboratory Control Samples (LCS):

All method criteria were met.

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

No matrix spike or matrix spike duplicates were analyzed.

**E. Duplicates:**

A duplicate was analyzed.

In batch 1715919 from source sample TF1-GZ-103-091117 (SC39093-03).

All method criteria were met.

**F. Internal Standards:**

Internal standards were within the acceptance criteria.

**G. Samples:**

All method criteria were met.



# FORM II - SURROGATE STANDARD RECOVERY SUMMARY

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 1710218

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
<b>Blank (1715919-BLK1)</b>	65	64	78				0
<b>LCS (1715919-BS1)</b>	63	62	75				0
<b>LCS Dup (1715919-BSD1)</b>	59	58	72				0
<b>Duplicate (1715919-DUP1)</b>	66	64	81				0
<b>TF1-GT-121-091117 (SC39093-01)</b>	55	52	67				0
<b>TF1-GT-119-091117 (SC39093-02)</b>	60	59	73				0
<b>TF1-GZ-103-091117 (SC39093-03)</b>	55	54	68				0

**Control Limits**

S1 = 2-Fluorobiphenyl

44 - 119

S2 = Nitrobenzene-d5

40 - 110

S3 = Terphenyl-dl4

50 - 134

# Column to be used to flag recovery values

\* Values outside of QC limits

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS5

Batch: 1715919

Laboratory ID: 1715919-BS1

Preparation: SW846 3510C

Initial/Final: 990 ml / 1 ml

Analyzed: 09/20/17 21:32

Spike ID: 17H0927

File ID: BS715919.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
Acenaphthene	50.5	30.6	61	47 - 122
Acenaphthylene	50.5	30.3	60	41 - 130
Anthracene	50.5	34.8	69	57 - 123
Benzo (a) anthracene	50.5	34.1	68	58 - 125
Benzo (a) pyrene	50.5	35.4	70	54 - 128
Benzo (b) fluoranthene	50.5	36.8	73	53 - 131
Benzo (g,h,i) perylene	50.5	33.3	66	50 - 134
Benzo (k) fluoranthene	50.5	33.0	65	57 - 129
Chrysene	50.5	33.5	66	59 - 123
Dibenzo (a,h) anthracene	50.5	36.9	73	51 - 134
Fluoranthene	50.5	35.9	71	57 - 128
Fluorene	50.5	31.5	62	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	36.0	71	52 - 134
1-Methylnaphthalene	50.5	32.7	65	41 - 119
2-Methylnaphthalene	50.5	36.4	72	40 - 121
Naphthalene	50.5	28.8	57	40 - 121
Phenanthrene	50.5	33.3	66	59 - 120
Pyrene	50.5	33.5	66	57 - 126

File ID: BSD15919.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Acenaphthene	50.5	29.1	58	5	20	47 - 122
Acenaphthylene	50.5	28.7	57	5	20	41 - 130
Anthracene	50.5	32.1	64	8	20	57 - 123
Benzo (a) anthracene	50.5	32.3	64	5	20	58 - 125
Benzo (a) pyrene	50.5	33.9	67	4	20	54 - 128
Benzo (b) fluoranthene	50.5	32.8	65	11	20	53 - 131
Benzo (g,h,i) perylene	50.5	30.9	61	7	20	50 - 134
Benzo (k) fluoranthene	50.5	33.0	65	0.2	20	57 - 129

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**

**SW846 8270D**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	HPS5
Batch:	<u>1715919</u>	Laboratory ID:	<u>1715919-BSD1</u>
Preparation:	<u>SW846 3510C</u>	Initial/Final:	<u>990 ml / 1 ml</u>
Analyzed:	<u>09/20/17 22:04</u>	Spike ID:	17H0927
		File ID:	<u>BSD15919.D</u>

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Chrysene	50.5	32.0	63	5	20	59 - 123
Dibenzo (a,h) anthracene	50.5	34.1	67	8	20	51 - 134
Fluoranthene	50.5	33.5	66	7	20	57 - 128
Fluorene	50.5	29.7	59	6	20	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	33.0	65	8	20	52 - 134
1-Methylnaphthalene	50.5	30.4	60	7	20	41 - 119
2-Methylnaphthalene	50.5	33.3	66	9	20	40 - 121
Naphthalene	50.5	26.7	53	7	20	40 - 121
Phenanthrene	50.5	30.7	61	8	20	59 - 120
Pyrene	50.5	31.4	62	6	20	57 - 126

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

\* Values outside of QC limits

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

**FORM IIIc - DUPLICATES**

**TF1-GZ-103-091117**

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715919-DUP1

Batch: 1715919

Lab Source ID: SC39093-03

Preparation: SW846 3510C

Initial/Final: 1060 ml / 1 ml

Source Sample Name: TF1-GZ-103-091117

% Solids:

File ID: 3909303D.D

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (µg/l)	C	DUPLICATE CONCENTRATION (µg/l)	C	RPD %	Q	METHOD
Acenaphthene	20	BRL		BDL				SW846 8270D
Acenaphthylene	20	BRL		BDL				SW846 8270D
Anthracene	20	BRL		BDL				SW846 8270D
Benzo (a) anthracene	20	BRL		BDL				SW846 8270D
Benzo (a) pyrene	20	BRL		BDL				SW846 8270D
Benzo (b) fluoranthene	20	BRL		BDL				SW846 8270D
Benzo (g,h,i) perylene	20	BRL		BDL				SW846 8270D
Benzo (k) fluoranthene	20	BRL		BDL				SW846 8270D
Chrysene	20	BRL		BDL				SW846 8270D
Dibenzo (a,h) anthracene	20	BRL		BDL				SW846 8270D
Fluoranthene	20	BRL		BDL				SW846 8270D
Fluorene	20	BRL		BDL				SW846 8270D
Indeno (1,2,3-cd) pyrene	20	BRL		BDL				SW846 8270D
1-Methylnaphthalene	20	0.904		0.991		9		SW846 8270D
2-Methylnaphthalene	20	BRL		BDL				SW846 8270D
Naphthalene	20	2.24		2.45		9		SW846 8270D
Phenanthrene	20	BRL		BDL				SW846 8270D
Pyrene	20	BRL		BDL				SW846 8270D

\* Values outside of QC limits

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



**FORM I - ORGANIC ANALYSIS DATA SHEET**  
**SW846 8270D**

1715919-BLK1
--------------

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH                                  Project: WE15 Tank Farm 1 NAVSTA Newport  
 Matrix: Aqueous                      Laboratory ID: 1715919-BLK1                      File ID: BK715919.D  
    Preparation: SW846 3510C                      Initial/Final: 980 ml / 1 ml  
 Analyzed: 09/20/17 21:01                      Instrument: HPS5  
 Batch: 1715919                      Sequence: S708501                      Calibration: 1709033

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

# FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708501

Instrument: HPS5

Matrix: Aqueous

Calibration: 1709033

Analyzed: 09/20/17 20:29

File ID: SCG50920.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	1628869	7.72	3209585	12.95	3112872	5.53	3501548	15.35	3185304	9.49		
Upper Limit	3257738	8.22	6419170	13.45	6225744	6.03	7003096	15.85	6370608	9.99		
Lower Limit	814435	7.22	1604793	12.45	1556436	5.03	1750774	14.85	1592652	8.99		
Sample ID												
Calibration Check (S708501-CCV2)	1750024	7.723	3445530	12.958	3322410	5.535	3739342	15.357	3376585	9.493		
Blank (1715919-BLK1)	1884815	7.717	3773280	12.94	3686193	5.523	4041967	15.34	3649789	9.487		
LCS (1715919-BS1)	2069992	7.729	4172570	12.958	3938619	5.529	4471020	15.357	3839401	9.499		
LCS Dup (1715919-BSD1)	1927401	7.728	3885886	12.952	3667057	5.529	4175626	15.357	3597834	9.493		
Duplicate (1715919-DUP1)	1791900	7.717	3559946	12.94	3502227	5.523	3826071	15.346	3471640	9.487		
TF1-GT-121-091117 (SC39093-01)	1885815	7.717	3829091	12.94	3703943	5.523	4032110	15.346	3596829	9.487		
TF1-GT-119-091117 (SC39093-02)	1827851	7.717	3653261	12.94	3536316	5.523	3928278	15.346	3492580	9.487		
TF1-GZ-103-091117 (SC39093-03)	1882560	7.717	3798703	12.94	3677617	5.523	4011354	15.346	3608273	9.487		

IS1 = Acenaphthene-d10

IS2 = Chrysene-d12

IS3 = Naphthalene-d8

IS4 = Perylene-d12

IS5 = Phenanthrene-d10

# Column to be used to flag internal standard area values

\* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

**Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS****SW846 8270D****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC39093**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport

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



PREPARATION BENCH SHEET

FINAL COPY

\* A = Analyst \* W = Witness

1715919

Eurofins Spectrum Analytical, Inc. - MA

- |   |         |  |         |  |         |  |         |
|---|---------|--|---------|--|---------|--|---------|
| <input type="checkbox"/> Sodium Chloride (NaCl)                                       | 17G0504 | <input type="checkbox"/> Florisil  | 17I0342 | <input checked="" type="checkbox"/> Methylene Chloride (CH <sub>2</sub> Cl <sub>2</sub> )      | 17I0401 | <input type="checkbox"/> Ethyl Acetate (C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> ) | 14K0438 |
| <input type="checkbox"/> Ottawa Sand  | 17H0732 | <input type="checkbox"/> Silica gel (EPH)                                | 17H0666 | <input type="checkbox"/> Hexane (C <sub>6</sub> H <sub>14</sub> )                              | 17I0189 | <input checked="" type="checkbox"/> Aqueous Filter Paper                               | 17I0351 |
| <input type="checkbox"/> HCL  | 17H0366 | <input type="checkbox"/> Silica gel (TPH)                                | 17H0665 | <input type="checkbox"/> Acetone (CH <sub>3</sub> COCH <sub>3</sub> )                          | 17I0243 | <input type="checkbox"/> Soil Filter Paper   | 17I0209 |
| <input type="checkbox"/> Copper   | 17I0204 | <input type="checkbox"/> Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ) | 17H0891 | <input type="checkbox"/> Methanol (CH <sub>3</sub> OH)   | 17E0681 |  |         |
| <input checked="" type="checkbox"/> Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> ) | 17I0431 |  |         | <input type="checkbox"/> Ether (C <sub>2</sub> H <sub>5</sub> OC <sub>2</sub> H <sub>5</sub> ) | 17H0567 | <input type="checkbox"/> Gauze Wipe  | 17A0428 |
| <input type="checkbox"/> PCB Transformer Oil  | 10H0132 | <input type="checkbox"/> MTBE  | 16I0388 | <input type="checkbox"/> Acidified Sodium Sulfate  | 17G0918 | <input type="checkbox"/> 1:1 HCl Mix   | 17G0111 |
| <input checked="" type="checkbox"/> 1:1 H <sub>2</sub> SO <sub>4</sub> Mix            | 17G1000 | <input type="checkbox"/> Acidified Methanol                              | 17G0302 | <input checked="" type="checkbox"/> Sodium Hydroxide (NaOH)                                    | 17G0775 | <input type="checkbox"/> Glass Wool  | 17H0734 |
| <input type="checkbox"/> Iso-octane   | 17B0969 | <input type="checkbox"/> 37% KOH   | 17C0273 | <input type="checkbox"/> Sodium Bicarbonate  | 14K0424 | <input type="checkbox"/> Cupric Sulfate Pentahydrate                                   |         |
| <input type="checkbox"/> 1ml Syringe I  | 15A0480 | <input type="checkbox"/> 1ml Syringe II                                  | 15A0481 | <input type="checkbox"/> 1ml Syringe III   | 15A0482 | <input type="checkbox"/> 500ul Syringe   | 15C0951 |
| <input type="checkbox"/> 250ul Syringe  | 15A0484 | <input type="checkbox"/> 100ul Syringe                                   | 15A0485 | <input type="checkbox"/> 25ul Syringe I  | 15A0486 | <input type="checkbox"/> 25ul Syringe II   | 15A0487 |
| <input type="checkbox"/> 25ul Syringe III   | 15A0488 | <input type="checkbox"/> 25ul Syringe IV                                 | 15A0489 | <input type="checkbox"/> 25ul Syringe V  | 15A0490 | <input type="checkbox"/> 10ul Syringe I  | 15A0491 |
| <input type="checkbox"/> 1:1 DCM-Acetone  | 17I0246 | <input checked="" type="checkbox"/> pH paper                             | 16A0780 | <input type="checkbox"/> Chlorine Chk Strips   | 17D0909 | Balance ID   |         |

Matrix: Aqueous

Prepared using: SVOC - SW846 3510C

Surrogate used: 17I0218

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	C	pH		pH Init	CL
																	BASIC	ACID		
1715919-BLK1	Blank	QC	980	1						1000			18-Sep-17 08:00	18-Sep-17						
1715919-BS1	LCS	QC	990	1	17H0927				1000	1000			18-Sep-17 08:00	18-Sep-17						
1715919-BSD1	LCS Dup	QC	990	1	17H0927				1000	1000			18-Sep-17 08:00	18-Sep-17						
1715919-DUP1	Duplicate	QC	1060	1		SC39093-03				1000			11-Sep-17 15:50	18-Sep-17	Cont. M					
1715919-MS1	Matrix Spike	QC	1080	1	17H0927	SC39129-01			1000	1000			12-Sep-17 09:53	18-Sep-17	Cont. J					
1715919-MSD1	Matrix Spike Dup	QC	1080	1	17H0927	SC39129-01			1000	1000			12-Sep-17 09:53	18-Sep-17	Cont. M					
SC39093-01	TF1-GT-121-091117	8270 PAH DoD	1060	1						1000		21-Sep-17 16	11-Sep-17 12:35	18-Sep-17	DoD Level IV/Extra Liter	K				
SC39093-02	TF1-GT-119-091117	8270 PAH DoD	1000	1						1000		21-Sep-17 16	11-Sep-17 13:35	18-Sep-17	DoD Level IV/Extra Liter	L				
SC39093-03	TF1-GZ-103-091117	8270 PAH DoD	1040	1						1000		21-Sep-17 16	11-Sep-17 15:50	18-Sep-17	DoD Level IV/Extra Liter	L				
SC39129-01	BED-GW-ELM3-09122017	8270 PAH DoD	1070	1						1000		21-Sep-17 16	12-Sep-17 09:53	18-Sep-17	MS/MSD/DoD Level IV	L				
SC39129-02	BED-GW-IW18-09122017	8270 PAH DoD	1090	1						1000		21-Sep-17 16	12-Sep-17 10:03	18-Sep-17	Extra liter/DoD Level IV	E				
SC39129-04	BED-GW-MW805-09122017	8270 PAH DoD	1090	1						1000		21-Sep-17 16	12-Sep-17 11:25	18-Sep-17	Extra liter/DoD Level IV	D				
SC39129-05	BED-GW-MW18SR-09122017	8270 PAH DoD	1090	1						1000		21-Sep-17 16	12-Sep-17 12:34	18-Sep-17	Extra liter/DoD Level IV	D				
SC39129-06	BED-GW-MW15SR-09122017	8270 PAH DoD	750	1						1000		21-Sep-17 16	12-Sep-17 12:42	18-Sep-17	DoD Level IV	D				

*[Signature]*  
Analyst Reviewed 9/20/17 Date

*[Signature]*  
Manager Reviewed 9/26/17 Date

*[Signature]*  
Extracts Prepared By 9/18/17 Date

PREPARATION BENCH SHEET

ANALOGY

\* A = Analyst \* W = Witness

1715919

Eurofins Spectrum Analytical, Inc. - MA

Prepared using: SVOC - SW846 3510C

Surrogate used: 1710218

Matrix: Aqueous

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	C	pH BASIC	pH ACID	pH Init	CL
SC39129-08	BED-GW-Dup01-09122017	8270 PAH DoD	1090	1						1000		21-Sep-17 16	12-Sep-17 00:00	18-Sep-17	Extra liter/DoD Level IV	D				
SC39129-09	BED-GW-Dup02-09122017	8270 PAH DoD	1080	1						1000		21-Sep-17 16	12-Sep-17 00:00	18-Sep-17	Extra liter/DoD Level IV	D				
SC39129-10	BED-GW-RB01-09122017	8270 PAH DoD	1080	1						1000		21-Sep-17 16	12-Sep-17 13:30	18-Sep-17	Extra liter/DoD Level IV	E				
SC39163-01	TF1-GT-130-091217	8270 PAH DoD	940	1						1000		22-Sep-17 16	12-Sep-17 12:15	18-Sep-17	DoD Level IV/Extra Liter	J				
SC39163-02	TF1-GT-115-091217	8270 PAH DoD	1070	1						1000		22-Sep-17 16	12-Sep-17 10:30	18-Sep-17	DoD Level IV/Extra Liter	K				
SC39163-03	TF1-GT-111-091217	8270 PAH DoD	1070	1						1000		22-Sep-17 16	12-Sep-17 14:15	18-Sep-17	DoD Level IV/Extra Liter	L				
SC39163-04	TF1-GT-118-091217	8270 PAH DoD	1020	1						1000		22-Sep-17 16	12-Sep-17 10:20	18-Sep-17	DoD Level IV/Extra Liter	J				
SC39163-05	TF1-DUP-03-091217	8270 PAH DoD	1050	1						1000		22-Sep-17 16	12-Sep-17 12:00	18-Sep-17	DoD Level IV/Extra Liter	J				
SC39163-06	TF1-MW-1004-091217	8270 PAH DoD	1060	1						1000		22-Sep-17 16	12-Sep-17 15:10	18-Sep-17	DoD Level IV/Extra Liter	M				
SC39163-07	TF1-GZ-106-091217	8270 PAH DoD	1060	1						1000		22-Sep-17 16	12-Sep-17 08:00	18-Sep-17	DoD Level IV/Extra Liter	J				

*[Signature]*  
 Analyst Reviewed 9/20/17  
 Date

*[Signature]*  
 Manager Reviewed 9/26/17  
 Date

*[Signature]*  
 Extracts Prepared By 9/18/17  
 Date

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708282

Instrument: HPS5

Calibration: 1709033

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S708282-TUN1	DFT50914.D	09/14/17 10:06
Cal Standard	S708282-CAL1	5914CAL1.D	09/14/17 10:37
Low Cal Check	S708282-LCV2	5914CAL1.D	09/14/17 10:37
Cal Standard	S708282-CAL2	5914CAL2.D	09/14/17 11:08
Cal Standard	S708282-CAL3	5914CAL3.D	09/14/17 11:39
Low Cal Check	S708282-LCV1	5914CAL3.D	09/14/17 11:39
Cal Standard	S708282-CAL4	5914CAL4.D	09/14/17 12:10
Cal Standard	S708282-CAL5	5914CAL5.D	09/14/17 12:41
Cal Standard	S708282-CAL6	5914CAL6.D	09/14/17 13:12
Cal Standard	S708282-CAL7	5914CAL7.D	09/14/17 13:44
Cal Standard	S708282-CAL8	5914CAL8.D	09/14/17 14:15
Cal Standard	S708282-CAL9	5914CAL9.D	09/14/17 14:46
Cal Standard	S708282-CALA	5914CAL0.D	09/14/17 15:17
Initial Cal Check	S708282-ICV1	5914ICV.D	09/14/17 16:51

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 8270D**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Sequence:	<u>S708501</u>	Instrument:	<u>HPS5</u>
		Calibration:	<u>1709033</u>

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S708501-TUN1	DFG50920.D	09/20/17 19:58
Calibration Check	S708501-CCV1	SCG50920.D	09/20/17 20:29
Blank	1715919-BLK1	BK715919.D	09/20/17 21:01
LCS	1715919-BS1	BS715919.D	09/20/17 21:32
LCS Dup	1715919-BSD1	BSD15919.D	09/20/17 22:04
TF1-GT-121-091117	SC39093-01	C3909301.D	09/20/17 22:35
TF1-GT-119-091117	SC39093-02	C3909302.D	09/20/17 23:07
TF1-GZ-103-091117	SC39093-03	C3909303.D	09/20/17 23:39
TF1-GZ-103-091117	1715919-DUP1	3909303D.D	09/21/17 00:10
Calibration Check	S708501-CCV2	SCD50920.D	09/21/17 07:34

Sequence Name: C:\msdchem\1\sequence\PAH5091217.S

Comment:

Operator: MSL

Data Path: G:\SEP2017\HPS5\PAH5091417\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run            On A Barcode Mismatch  
 Full Method                     Inject Anyway  
 Reprocessing Only             Don't Inject

*MSL*  
*10-5-17*

Line	Sample Name/Misc Info
1) Sample	1 SYT50914 HP4NEW SYT50914
2) Sample	2 DFT50914 HP4NEW DFT50914
3) Sample	3 5914CAL1 HP4NEW 50914CAL1
4) Sample	4 5914CAL2 HP4NEW 50914CAL2
5) Sample	5 5914CAL3 HP4NEW 50914CAL3
6) Sample	6 5914CAL4 HP4NEW 50914CAL4
7) Sample	7 5914CAL5 HP4NEW 50914CAL5
8) Sample	8 5914CAL6 HP4NEW 50914CAL6
9) Sample	9 5914CAL7 HP4NEW 50914CAL7
10) Sample	10 5914CAL8 HP4NEW 50914CAL8
11) Sample	11 5914CAL9 HP4NEW 50914CAL9
12) Sample	12 5914CAL0 HP4NEW 50914CAL0
13) Sample	13 5914CALA HP4NEW 50914CALA
14) Sample	14 5914CALB HP4NEW 50914CALB
15) Sample	15 5914ICV HP4NEW 50914ICV
16) Sample	16 5914DMF1 HP4NEW 50914DMF1
17) Sample	17 5914DMF2 HP4NEW 50914DMF2
18) Sample	18 5914DMF3 HP4NEW 50914DMF3
19) Sample	19 5914DMF4 HP4NEW 50914DMF4
20) Sample	20 5914DMF5 HP4NEW 50914DMF5
21) Sample	21 5914DMF6 HP4NEW 50914DMF6
22) Sample	22 ICVDMF HP4NEW ICVDMF
23) Sample	23 TST1 HP4NEW TST1
24) Sample	24 SCT50914 HP4NEW SCT50914
25) Sample	25 BK715334 HP4NEW 1715334-BLK1
26) Sample	26 BS715334 HP4NEW 1715334-BS1
27) Sample	27 BSD15334 HP4NEW 1715334-BSD1

Sequence Name: C:\msdchem\1\sequence\PAH5092017.S

Comment:

Operator: MSL

Data Path: G:\SEP2017\HPS5\PAH5092017\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch  
(X) Full Method              (X) Inject Anyway  
( ) Reprocessing Only      ( ) Don't Inject

Line	Sample Name/Misc Info
1) Sample	1 SYT50920 HP4NEW SYT50920
2) Sample	2 DFT50920 HP4NEW DFT50920
3) Sample	3 SCT50920 HP4NEW SCT50920
4) Sample	4 3873304M HP4NEW 1715009-MS1
5) Sample	5 BK716026 HP4NEW 1716026-BLK1
6) Sample	6 BS716026 HP4NEW 1716026-BS1
7) Sample	7 BSD16026 HP4NEW 1716026-BSD1
8) Sample	8 C3893301 HP4NEW SC38933-01RE1
9) Sample	9 C3893302 HP4NEW SC38933-02RE1 <i>DMC</i>
10) Sample	10 C3893303 HP4NEW SC38933-03RE1
11) Sample	11 C3894601 HP4NEW SC38946-01
12) Sample	12 SCE50920 HP4NEW SCE50920
13) Sample	1 SYG50920 HP4NEW SYG50920
14) Sample	2 DFG50920 HP4NEW DFG50920
15) Sample	3 SCG50920 HP4NEW SCG50920
16) Sample	4 BK715919 HP4NEW 1715919-BLK1
17) Sample	5 BS715919 HP4NEW 1715919-BS1
18) Sample	6 BSD15919 HP4NEW 1715919-BSD1
19) Sample	7 C3909301 HP4NEW SC39093-01
20) Sample	8 C3909302 HP4NEW SC39093-02
21) Sample	9 C3909303 HP4NEW SC39093-03
22) Sample	10 3909303D HP4NEW 1715919-DUP1
23) Sample	11 C3912901 HP4NEW SC39129-01
24) Sample	12 3912901M HP4NEW 1715919-MS1
25) Sample	13 3912901S HP4NEW 1715919-MSD1
26) Sample	14 C3912902 HP4NEW SC39129-02
27) Sample	15 C3912904 HP4NEW SC39129-04
28) Sample	16 C3912905 HP4NEW SC39129-05
29) Sample	17 C3912906 HP4NEW SC39129-06
30) Sample	18 C3912908 HP4NEW SC39129-08
31) Sample	19 C3912909 HP4NEW SC39129-09
32) Sample	20 C3912910 HP4NEW SC39129-10
33) Sample	21 C3916301 HP4NEW SC39163-01
34) Sample	22 C3916302 HP4NEW SC39163-02
35) Sample	23 DFD50920 HP4NEW DFD50920
36) Sample	24 SCD50920 HP4NEW SCD50920
37) Sample	25 C3916303 HP4NEW SC39163-03
38) Sample	26 C3916304 HP4NEW SC39163-04
39) Sample	27 C3916305 HP4NEW SC39163-05
40) Sample	28 C3916306 HP4NEW SC39163-06
41) Sample	29 C3916307 HP4NEW SC39163-07
42) Sample	30 R873304M HP4NEW 1715009-MS1
43) Sample	31 DMF50920 HP4NEW DMF50920

*ay*  
*9/21/17*

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	32	C3869704	HP4NEW	SC38697-04
45)	Sample	33	C3869801	HP4NEW	SC38698-01
46)	Sample	34	C3869802	HP4NEW	SC38698-02
47)	Sample	35	C3869803	HP4NEW	SC38698-03
48)	Sample	36	SEE50920	HP4NEW	SEE50920

REPEAT  
②

# CROSS REFERENCE TABLE

## SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

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**Client Sample ID:**

TF1-GT-121-091117

TF1-GT-119-091117

TF1-GZ-103-091117

**Lab Sample ID:**

SC39093-01

SC39093-02

SC39093-03



## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39093

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39093

### I. RECEIPT

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

### II. HOLDING TIMES

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

### III. METHODS

Analyses were performed according to SW846 8081B.

### IV. PREPARATION

Aqueous samples were prepared according to SW846 3510C.

### V. INSTRUMENTATION

The following equipment was used to analyze SW846 8081B:

HPS17 details: Agilent 6890 series dual column ECD GC with RTX-CLPesticides (30m, 0.53mmID, 0.5um df) & RTX-CLPesticides2 Column (30m, 0.53mmID, 0.42um df)

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Surrogates:

All method criteria were met.

#### D. Spikes:

##### 1. Laboratory Control Samples (LCS):

All method criteria were met.

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

No matrix spike or matrix spike duplicates were analyzed.

**E. Duplicates:**

A duplicate was analyzed.

In batch 1715920 from source sample TF1-GT-119-091117 (SC39093-02).

All method criteria were met.

**F. Internal Standards:**

Internal standards were within the acceptance criteria.

**G. Samples:**

All method criteria were met.

# FORM II - SURROGATE STANDARD RECOVERY SUMMARY

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 1710082

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
<b>Blank (1715920-BLK1)</b>	106	112	99	82			0
<b>LCS (1715920-BS1)</b>	97	100	90	72			0
<b>LCS Dup (1715920-BSD1)</b>	94	101	104	73			0
<b>Duplicate (1715920-DUP1)</b>	73	79	99	76			0
<b>Instrument Blank (S708605-IBL1)</b>	90	93	100	93			0
<b>Instrument Blank (S708605-IBL2)</b>	90	94	94	96			0
<b>Instrument Blank (S708605-IBL3)</b>	90	92	98	100			0
<b>Instrument Blank (S708605-IBL4)</b>	87	93	98	99			0
<b>TF1-GT-121-091117 (SC39093-01)</b>	81	88	83	79			0
<b>TF1-GT-119-091117 (SC39093-02)</b>	73	77	85	82			0
<b>TF1-GZ-103-091117 (SC39093-03)</b>	87	95	87	84			0

**Control Limits**

S1 = 4,4-DB-Octafluorobiphenyl (Sr)	30 - 150
S2 = 4,4-DB-Octafluorobiphenyl (Sr) [2C]	30 - 150
S3 = Decachlorobiphenyl (Sr)	30 - 135
S4 = Decachlorobiphenyl (Sr) [2C]	30 - 135

# Column to be used to flag recovery values

\* Values outside of QC limits

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Matrix: Aqueous  
 Batch: 1715920  
 Preparation: SW846 3510C  
 Analyzed: 09/27/17 19:48

SDG: SC39093  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: HPS17  
 Laboratory ID: 1715920-BS1  
 Initial/Final: 980 ml / 10 ml  
 Spike ID: 17I0075  
 File ID: L1170927.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.510	0.403	79	54 - 138
alpha-BHC [2C]	0.510	0.409	80	54 - 138
beta-BHC	0.510	0.426	83	56 - 136
beta-BHC [2C]	0.510	0.472	93	56 - 136
delta-BHC	0.510	0.420	82	52 - 142
delta-BHC [2C]	0.510	0.432	85	52 - 142
gamma-BHC (Lindane)	0.510	0.393	77	59 - 134
gamma-BHC (Lindane) [2C]	0.510	0.415	81	59 - 134
Heptachlor	0.510	0.407	80	54 - 130
Heptachlor [2C]	0.510	0.460	90	54 - 130
Aldrin	0.510	0.402	79	45 - 134
Aldrin [2C]	0.510	0.393	77	45 - 134
Heptachlor epoxide	0.510	0.402	79	61 - 133
Heptachlor epoxide [2C]	0.510	0.403	79	61 - 133
Endosulfan I	0.510	0.412	81	62 - 126
Endosulfan I [2C]	0.510	0.447	88	62 - 126
Dieldrin	0.510	0.399	78	60 - 136
Dieldrin [2C]	0.510	0.390	76	60 - 136
4,4'-DDE (p,p')	0.510	0.389	76	57 - 135
4,4'-DDE (p,p') [2C]	0.510	0.386	76	57 - 135
Endrin	0.510	0.485	95	60 - 138
Endrin [2C]	0.510	0.497	98	60 - 138
Endosulfan II	0.510	0.410	80	52 - 135
Endosulfan II [2C]	0.510	0.489	96	52 - 135
4,4'-DDD (p,p')	0.510	0.410	80	56 - 143
4,4'-DDD (p,p') [2C]	0.510	0.474	93	56 - 143
Endosulfan sulfate	0.510	0.418	82	62 - 133
Endosulfan sulfate [2C]	0.510	0.489	96	62 - 133
4,4'-DDT (p,p')	0.510	0.273	54	51 - 143
4,4'-DDT (p,p') [2C]	0.510	0.397	78	51 - 143

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8081B**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>HPS17</u>
Batch: <u>1715920</u>	Laboratory ID: <u>1715920-BS1</u>
Preparation: <u>SW846 3510C</u>	Initial/Final: <u>980 ml / 10 ml</u>
Analyzed: <u>09/27/17 19:48</u>	Spike ID: <u>17I0075</u>
	File ID: <u>L1170927.D</u>

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
Methoxychlor	0.510	0.392	77	54 - 145
Methoxychlor [2C]	0.510	0.438	86	54 - 145
Endrin ketone	0.510	0.347	68	58 - 134
Endrin ketone [2C]	0.510	0.423	83	58 - 134
Endrin aldehyde	0.510	0.437	86	51 - 132
Endrin aldehyde [2C]	0.510	0.503	99	51 - 132
alpha-Chlordane	0.510	0.417	82	60 - 129
alpha-Chlordane [2C]	0.510	0.421	83	60 - 129
Chlordane (gamma)(trans)	0.510	0.431	85	56 - 136
Chlordane (gamma)(trans) [2C]	0.510	0.418	82	56 - 136
Alachlor	0.510	0.453	89	40 - 140
Alachlor [2C]	0.510	0.453	89	40 - 140

File ID: L2170927.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
alpha-BHC	0.510	0.378	74	6	20	54 - 138
alpha-BHC [2C]	0.510	0.393	77	4	20	54 - 138
beta-BHC	0.510	0.390	76	9	20	56 - 136
beta-BHC [2C]	0.510	0.446	87	6	20	56 - 136
delta-BHC	0.510	0.369	72	13	20	52 - 142
delta-BHC [2C]	0.510	0.406	80	6	20	52 - 142
gamma-BHC (Lindane)	0.510	0.368	72	7	20	59 - 134
gamma-BHC (Lindane) [2C]	0.510	0.402	79	3	20	59 - 134
Heptachlor	0.510	0.380	75	7	20	54 - 130
Heptachlor [2C]	0.510	0.451	88	2	20	54 - 130
Aldrin	0.510	0.381	75	5	20	45 - 134
Aldrin [2C]	0.510	0.383	75	2	20	45 - 134
Heptachlor epoxide	0.510	0.384	75	5	20	61 - 133
Heptachlor epoxide [2C]	0.510	0.395	77	2	20	61 - 133

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPS17

Batch: 1715920

Laboratory ID: 1715920-BSD1

Preparation: SW846 3510C

Initial/Final: 980 ml / 10 ml

Analyzed: 09/27/17 20:07

Spike ID: 17I0075

File ID: L2170927.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Endosulfan I	0.510	0.396	78	4	20	62 - 126
Endosulfan I [2C]	0.510	0.432	85	4	20	62 - 126
Dieldrin	0.510	0.387	76	3	20	60 - 136
Dieldrin [2C]	0.510	0.385	75	1	20	60 - 136
4,4'-DDE (p,p')	0.510	0.380	74	2	20	57 - 135
4,4'-DDE (p,p') [2C]	0.510	0.371	73	4	20	57 - 135
Endrin	0.510	0.470	92	3	20	60 - 138
Endrin [2C]	0.510	0.475	93	5	20	60 - 138
Endosulfan II	0.510	0.413	81	0.7	20	52 - 135
Endosulfan II [2C]	0.510	0.469	92	4	20	52 - 135
4,4'-DDD (p,p')	0.510	0.406	80	0.9	20	56 - 143
4,4'-DDD (p,p') [2C]	0.510	0.480	94	1	20	56 - 143
Endosulfan sulfate	0.510	0.402	79	4	20	62 - 133
Endosulfan sulfate [2C]	0.510	0.493	97	0.8	20	62 - 133
4,4'-DDT (p,p')	0.510	0.266	52	3	20	51 - 143
4,4'-DDT (p,p') [2C]	0.510	0.345	68	14	20	51 - 143
Methoxychlor	0.510	0.375	73	4	20	54 - 145
Methoxychlor [2C]	0.510	0.387	76	12	20	54 - 145
Endrin ketone	0.510	0.338	66	3	20	58 - 134
Endrin ketone [2C]	0.510	0.405	79	4	20	58 - 134
Endrin aldehyde	0.510	0.425	83	3	20	51 - 132
Endrin aldehyde [2C]	0.510	0.489	96	3	20	51 - 132
alpha-Chlordane	0.510	0.397	78	5	20	60 - 129
alpha-Chlordane [2C]	0.510	0.417	82	1	20	60 - 129
Chlordane (gamma)(trans)	0.510	0.417	82	3	20	56 - 136
Chlordane (gamma)(trans) [2C]	0.510	0.411	81	2	20	56 - 136
Alachlor	0.510	0.414	81	9	20	40 - 140
Alachlor [2C]	0.510	0.482	94	6	20	40 - 140

**FORM IIIc - DUPLICATES**

**TF1-GT-119-091117**

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715920-DUP1

Batch: 1715920

Lab Source ID: SC39093-02

Preparation: SW846 3510C

Initial/Final: 1040 ml / 10 ml

Source Sample Name: TF1-GT-119-091117

% Solids:

File ID: D1170927.D

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (µg/l)	C	DUPLICATE CONCENTRATION (µg/l)	C	RPD %	Q	METHOD
alpha-BHC	30	BRL		BDL				SW846 8081B
alpha-BHC [2C]	30			BDL				SW846 8081B
beta-BHC	30	BRL		BDL				SW846 8081B
beta-BHC [2C]	30			BDL				SW846 8081B
delta-BHC	30	BRL		BDL				SW846 8081B
delta-BHC [2C]	30			BDL				SW846 8081B
gamma-BHC (Lindane)	30	BRL		BDL				SW846 8081B
gamma-BHC (Lindane) [2C]	30			BDL				SW846 8081B
Heptachlor	30	BRL		BDL				SW846 8081B
Heptachlor [2C]	30			BDL				SW846 8081B
Aldrin	30	BRL		BDL				SW846 8081B
Aldrin [2C]	30			BDL				SW846 8081B
Heptachlor epoxide	30	BRL		BDL				SW846 8081B
Heptachlor epoxide [2C]	30			BDL				SW846 8081B
Endosulfan I	30	BRL		BDL				SW846 8081B
Endosulfan I [2C]	30			BDL				SW846 8081B
Dieldrin	30	BRL		BDL				SW846 8081B
Dieldrin [2C]	30			BDL				SW846 8081B
4,4'-DDE (p,p')	30	BRL		BDL				SW846 8081B
4,4'-DDE (p,p') [2C]	30			BDL				SW846 8081B
Endrin	30	BRL		BDL				SW846 8081B
Endrin [2C]	30			BDL				SW846 8081B
Endosulfan II	30	BRL		BDL				SW846 8081B
Endosulfan II [2C]	30			BDL				SW846 8081B
4,4'-DDD (p,p')	30	BRL		BDL				SW846 8081B
4,4'-DDD (p,p') [2C]	30			BDL				SW846 8081B
Endosulfan sulfate	30	BRL		BDL				SW846 8081B
Endosulfan sulfate [2C]	30			BDL				SW846 8081B
4,4'-DDT (p,p')	30	BRL		BDL				SW846 8081B

**FORM IIIc - DUPLICATES**

**TF1-GT-119-091117**

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715920-DUP1

Batch: 1715920

Lab Source ID: SC39093-02

Preparation: SW846 3510C

Initial/Final: 1040 ml / 10 ml

Source Sample Name: TF1-GT-119-091117

% Solids:

File ID: D1170927.D

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (µg/l)	C	DUPLICATE CONCENTRATION (µg/l)	C	RPD %	Q	METHOD
4,4'-DDT (p,p') [2C]	30			BDL				SW846 8081B
Methoxychlor	30	BRL		BDL				SW846 8081B
Methoxychlor [2C]	30			BDL				SW846 8081B
Endrin ketone	30	BRL		BDL				SW846 8081B
Endrin ketone [2C]	30			BDL				SW846 8081B
Endrin aldehyde	30	BRL		BDL				SW846 8081B
Endrin aldehyde [2C]	30			BDL				SW846 8081B
alpha-Chlordane	30	BRL		BDL				SW846 8081B
alpha-Chlordane [2C]	30			BDL				SW846 8081B
Chlordane (gamma)(trans)	30	BRL		BDL				SW846 8081B
Chlordane (gamma)(trans) [2C]	30			BDL				SW846 8081B
Toxaphene	30	BRL		BDL				SW846 8081B
Toxaphene [2C]	30			BDL				SW846 8081B
Chlordane	30	BRL		BDL				SW846 8081B
Chlordane [2C]	30			BDL				SW846 8081B
Alachlor	30	BRL		BDL				SW846 8081B
Alachlor [2C]	30			BDL				SW846 8081B

\* Values outside of QC limits

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



**FORM IV - METHOD BLANK SUMMARY**  
**SW846 8081B**

<u><b>1715920-BLK1</b></u>
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Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Laboratory ID: <u>1715920-BLK1</u>
	File ID: <u>B1170927.D</u>
	Preparation: <u>SW846 3510C</u>
	Initial/Final: <u>970 ml / 10 ml</u>
Analyzed: <u>09/27/17 19:29</u>	Instrument: <u>HPS17</u>
Batch: <u>1715920</u>	Sequence: <u>S708605</u>
	Calibration: <u>1709047</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715920-BS1	L1170927.D	09/27/17	19:48
LCS Dup	1715920-BSD1	L2170927.D	09/27/17	20:07
Duplicate	1715920-DUP1	D1170927.D	09/27/17	20:25
TF1-GT-121-091117	SC39093-01	3909301Z.D	09/27/17	21:58
TF1-GT-119-091117	SC39093-02	3909302Z.D	09/27/17	22:16
TF1-GZ-103-091117	SC39093-03	3909303Z.D	09/27/17	23:31

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

1715920-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC39093  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Matrix: Aqueous Laboratory ID: 1715920-BLK1 File ID: B1170927.D  
 Preparation: SW846 3510C Initial/Final: 970 ml / 10 ml  
 Analyzed: 09/27/17 19:29 Instrument: HPS17  
 Batch: 1715920 Sequence: S708605 Calibration: 1709047

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.021	U	0.012	0.021	0.021
319-84-6	alpha-BHC [2C]	1	0.021	U	0.018	0.021	0.021
319-85-7	beta-BHC	1	0.021	U	0.015	0.021	0.021
319-85-7	beta-BHC [2C]	1	0.021	U	0.020	0.021	0.021
319-86-8	delta-BHC	1	0.021	U	0.016	0.021	0.021
319-86-8	delta-BHC [2C]	1	0.021	U	0.020	0.021	0.021
58-89-9	gamma-BHC (Lindane)	1	0.021	U	0.018	0.021	0.021
58-89-9	gamma-BHC (Lindane) [2C]	1	0.021	U	0.018	0.021	0.021
76-44-8	Heptachlor	1	0.021	U	0.020	0.021	0.021
76-44-8	Heptachlor [2C]	1	0.021	U	0.020	0.021	0.021
309-00-2	Aldrin	1	0.021	U	0.016	0.021	0.021
309-00-2	Aldrin [2C]	1	0.021	U	0.019	0.021	0.021
1024-57-3	Heptachlor epoxide	1	0.021	U	0.016	0.021	0.021
1024-57-3	Heptachlor epoxide [2C]	1	0.021	U	0.015	0.021	0.021
959-98-8	Endosulfan I	1	0.021	U	0.017	0.021	0.021
959-98-8	Endosulfan I [2C]	1	0.021	U	0.016	0.021	0.021
60-57-1	Dieldrin	1	0.021	U	0.018	0.021	0.021
60-57-1	Dieldrin [2C]	1	0.021	U	0.019	0.021	0.021
72-55-9	4,4'-DDE (p,p')	1	0.021	U	0.018	0.021	0.021
72-55-9	4,4'-DDE (p,p') [2C]	1	0.021	U	0.018	0.021	0.021
72-20-8	Endrin	1	0.021	U	0.020	0.021	0.041
72-20-8	Endrin [2C]	1	0.021	U	0.020	0.021	0.041
33213-65-9	Endosulfan II	1	0.021	U	0.021	0.021	0.041
33213-65-9	Endosulfan II [2C]	1	0.021	U	0.016	0.021	0.041
72-54-8	4,4'-DDD (p,p')	1	0.021	U	0.019	0.021	0.041
72-54-8	4,4'-DDD (p,p') [2C]	1	0.021	U	0.018	0.021	0.041
1031-07-8	Endosulfan sulfate	1	0.021	U	0.020	0.021	0.041
1031-07-8	Endosulfan sulfate [2C]	1	0.021	U	0.017	0.021	0.041
50-29-3	4,4'-DDT (p,p')	1	0.031	U	0.018	0.031	0.041
50-29-3	4,4'-DDT (p,p') [2C]	1	0.031	U	0.022	0.031	0.041
72-43-5	Methoxychlor	1	0.021	U	0.019	0.021	0.041
72-43-5	Methoxychlor [2C]	1	0.021	U	0.019	0.021	0.041

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

<b>1715920-BLK1</b>
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Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>	
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>	
Matrix: <u>Aqueous</u>	Laboratory ID: <u>1715920-BLK1</u>	File ID: <u>B1170927.D</u>
	Preparation: <u>SW846 3510C</u>	Initial/Final: <u>970 ml / 10 ml</u>
Analyzed: <u>09/27/17 19:29</u>	Instrument: <u>HPS17</u>	
Batch: <u>1715920</u>	Sequence: <u>S708605</u>	Calibration: <u>1709047</u>

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
53494-70-5	Endrin ketone	1	0.021	U	0.018	0.021	0.041
53494-70-5	Endrin ketone [2C]	1	0.021	U	0.019	0.021	0.041
7421-93-4	Endrin aldehyde	1	0.021	U	0.020	0.021	0.041
7421-93-4	Endrin aldehyde [2C]	1	0.021	U	0.018	0.021	0.041
5103-71-9	alpha-Chlordane	1	0.021	U	0.016	0.021	0.021
5103-71-9	alpha-Chlordane [2C]	1	0.021	U	0.018	0.021	0.021
5103-74-2	Chlordane (gamma)(trans)	1	0.021	U	0.017	0.021	0.021
5103-74-2	Chlordane (gamma)(trans) [2C]	1	0.021	U	0.015	0.021	0.021
15972-60-8	Alachlor	1	0.021	U	0.019	0.021	0.021
15972-60-8	Alachlor [2C]	1	0.021	U	0.018	0.021	0.021

# FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Sequence: S708605  
 Matrix: Aqueous  
 Analyzed: 09/27/17 18:15

SDG: SC39093  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: HPS17  
 Calibration: 1709047  
 File ID: C1170927.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	16792740	3.15	28827860	2.85								
Upper Limit	33585480	3.65	57655720	3.35								
Lower Limit	8396370	2.65	14413930	2.35								
Sample ID												
Calibration Check (S708605-CCV2)	16137720	3.15	27865700	2.85								
Calibration Check (S708605-CCV3)	16260210	3.15	26757370	2.86								
Calibration Check (S708605-CCV4)	26618120	3.15	45403790	2.85								
Calibration Check (S708605-CCV5)	18738820	3.15	33455530	2.85								
Calibration Check (S708605-CCV6)	18907300	3.15	34465360	2.85								
Calibration Check (S708605-CCV7)	19012080	3.11	30408840	2.82								
Calibration Check (S708605-CCV8)	17794030	3.11	26298860	2.82								
Blank (1715920-BLK1)	13224070	3.15	23649140	2.85								
LCS (1715920-BS1)	15053420	3.15	26976430	2.85								
LCS Dup (1715920-BSD1)	14466870	3.15	24752160	2.86								
Duplicate (1715920-DUP1)	14251480	3.15	25769440	2.86								
Instrument Blank (S708605-IBL1)	18564200	3.15	32010740	2.85								
Instrument Blank (S708605-IBL2)	18647850	3.15	31099660	2.85								
Instrument Blank (S708605-IBL3)	23378750	3.15	41137110	2.85								
Instrument Blank (S708605-IBL4)	16109810	3.15	27763930	2.85								
Performance Mix (S708605-PEM1)	32163570	3.15	54004890	2.85								
Performance Mix (S708605-PEM2)	15462740	3.12	25750680	2.83								
Performance Mix (S708605-PEM3)	15808020	3.11	26992710	2.83								
Performance Mix (S708605-PEM4)	15919540	3.11	27845220	2.83								
TF1-GT-121-091117 (SC39093-01)	13870290	3.15	22817480	2.85								
TF1-GT-119-091117 (SC39093-02)	15919900	3.15	24904590	2.84								
TF1-GZ-103-091117 (SC39093-03)	14615350	3.15	23581020	2.85								

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

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

# Column to be used to flag internal standard area values

\* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

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

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

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

**Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS****SW846 8081B****Laboratory:** Eurofins Spectrum Analytical, Inc. - MA**SDG:** SC39093**Client:** Tetra Tech, Inc. - Salem, NH**Project:** WE15 Tank Farm 1 NAVSTA Newport

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

PREPARATION BENCH SHEET

1715920

FINAL COPY

\* A = Analyst \* W = Witness

Eurofins Spectrum Analytical, Inc. - MA

- Sodium Chloride (NaCl) 17G0504
- Ottawa Sand 17F1043
- HCL 17I0035
- Copper 17A0800
- Sodium Sulfate (Na2SO4) 17I0431
- PCB Transformer Oil 10H0132
- 1:1 H2SO4 Mix 17G1000
- Iso-octane 17B0969
- 1ml Syringe I 15A0480
- 250ul Syringe 15A0484
- 25ul Syringe III 15A0488
- 1:1 DCM-Acetone
- Florisil
- Silica gel (EPH)
- Silica gel (TPH)
- Sulfuric Acid (H2SO4)
- MTBE
- Acidified Methanol
- 37% KOH
- 1ml Syringe II
- 100ul Syringe
- 25ul Syringe IV
- pH paper

- 17I0342
- 17H0665
- 17H0891
- 17G0302
- 17C0273
- 15A0481
- 15A0485
- 15A0489
- 16A0780
- Methylene Chloride (CH2Cl2)
- Hexane (C6H14)
- Acetone (CH3COCH3)
- Methanol (CH3OH)
- Ether (C2H5OC2H5)
- Acidified Sodium Sulfate
- Sodium Hydroxide (NaOH)
- Sodium Bicarbonate
- 1ml Syringe III
- 25ul Syringe I
- 25ul Syringe V
- Chlorine Chk Strips

- 17I0401
- 17I0189
- 17I0243
- 17E0681
- 17H0567
- 17H0033
- 17G0775
- 14K0424
- 15A0482
- 15A0486
- 15A0490
- 17D0909
- Ethyl Acetate (C4H8O2)
- Aqueous Filter Paper
- Soil Filter Paper
- Gauze Wipe
- 1:1 HCl Mix
- Glass Wool
- Cupric Sulfate Pentahydrate
- 500ul Syringe
- 25ul Syringe II
- 10ul Syringe I
- Balance ID
- 14K0438
- 17A0428
- 17G0111
- 17G0179
- 15C0951
- 15A0487
- 15A0491

Matrix: Aqueous

Prepared using: SVOC - SW846 3510C

Surrogate used: 17I0082

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	ments C	pH BASIC	pH ACID	pH Init	CL
1715920-BLK1	Blank	QC	970	10						1000			18-Sep-17 08:00	18-Sep-17						
1715920-BS1	LCS	QC	980	10	17I0075				1000	1000			18-Sep-17 08:00	18-Sep-17						
1715920-BSD1	LCS Dup	QC	980	10	17I0075				1000	1000			18-Sep-17 08:00	18-Sep-17						
1715920-DUP1	Duplicate	QC	1040	10		SC39093-02				1000			11-Sep-17 13:35	18-Sep-17	Clear yellow Cont:M					
1715920-MS1	Matrix Spike	QC	990	10	17I0075	SC39266-01			1000	1000			14-Sep-17 10:20	18-Sep-17	Cont. AK					
1715920-MS2	Matrix Spike	QC	920	10	17I0075	SC39221-06			1000	1000			13-Sep-17 11:20	18-Sep-17	Clear yellow Cont:AI					
1715920-MSD1	Matrix Spike Dup	QC	1030	10	17I0075	SC39266-01			1000	1000			14-Sep-17 10:20	18-Sep-17	Cont. AJ					
1715920-MSD2	Matrix Spike Dup	QC	950	10	17I0075	SC39221-06			1000	1000			13-Sep-17 11:20	18-Sep-17	Clear yellow Cont:AM					
SC39093-01	TF1-GT-121-091117	8081 Pesticides DoD	1040	10						1000			21-Sep-17 16	11-Sep-17 12:35	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear	J		
SC39093-02	TF1-GT-119-091117	8081 Pesticides DoD	1030	10						1000			21-Sep-17 16	11-Sep-17 13:35	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear	K		
SC39093-03	TF1-GZ-103-091117	8081 Pesticides DoD	1020	10						1000			21-Sep-17 16	11-Sep-17 15:50	18-Sep-17	DoD Level IV/Extra Liter orange	Cloudy	J		
SC39163-01	TF1-GT-130-091217	8081 Pesticides DoD	940	10						1000			22-Sep-17 16	12-Sep-17 12:15	18-Sep-17	DoD Level IV/Extra Liter orange	Clear	K		
SC39163-02	TF1-GT-115-091217	8081 Pesticides DoD	1040	10						1000			22-Sep-17 16	12-Sep-17 10:30	18-Sep-17	DoD Level IV/Extra Liter orange	Clear	L		
SC39163-03	TF1-GT-111-091217	8081 Pesticides DoD	1030	10						1000			22-Sep-17 16	12-Sep-17 14:15	18-Sep-17	DoD Level IV/Extra Liter		K		

S. Mateo 9/26/17  
Analyst Reviewed Date

Manager Reviewed Date 9/26/17

Anthony Tejero 9/26/17  
Extracts Prepared By Date

PREPARATION BENCH SHEET

\* A = Analyst \* W = Witness

1715920

Eurofins Spectrum Analytical, Inc. - MA

Prepared using: SVOC - SW846 3510C

Surrogate used: 1710082

Matrix: Aqueous

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	C	pH		pH Init	CL	
																	BASIC	ACID			
SC39163-04	TF1-GT-118-091217	8081 Pesticides DoD	1000	10						1000		22-Sep-17 16	12-Sep-17 10:20	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear	L				
SC39163-05	TF1-DUP-03-091217	8081 Pesticides DoD	1020	10						1000		22-Sep-17 16	12-Sep-17 12:00	18-Sep-17	DoD Level IV/Extra Liter orange	Clear	L				
SC39163-06	TF1-MW-1004-091217	8081 Pesticides DoD	1040	10						1000		22-Sep-17 16	12-Sep-17 15:10	18-Sep-17	DoD Level IV/Extra Liter		L				
SC39221-01	TF1-GZ-106-091317	8081 Pesticides DoD	1040	10						1000		25-Sep-17 16	13-Sep-17 08:25	18-Sep-17	DoD Level IV/Extra Liter		A				
SC39221-02	TF1-GT-117-091317	8081 Pesticides DoD	1000	10						1000		25-Sep-17 16	13-Sep-17 09:50	18-Sep-17	DoD Level IV/Extra Liter orange	Clear	L				
SC39221-03	TF1-GT-108-091317	8081 Pesticides DoD	1010	10						1000		25-Sep-17 16	13-Sep-17 14:30	18-Sep-17	DoD Level IV/Extra Liter		J				
SC39221-04	TF1-MW-1008-091317	8081 Pesticides DoD	1040	10						1000		25-Sep-17 16	13-Sep-17 13:20	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear	L				
SC39221-05	TF1-DUP-04-091317	8081 Pesticides DoD	1040	10						1000		25-Sep-17 16	13-Sep-17 14:30	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear	K				
SC39221-06	TF1-MW-7-091317	8081 Pesticides DoD	960	10						1000		25-Sep-17 16	13-Sep-17 11:20	18-Sep-17	Run MS/MSD/DoD Level IV/Extra Liter Clear yellow		AK				
SC39266-01	TF1-GT-136B-091417	8081 Pesticides DoD	1060	10						1000		26-Sep-17 16	14-Sep-17 10:20	18-Sep-17	Run MS/MSD/DoD Level IV/Extra Liter		AC				
SC39266-02	Grab-WILLH-091417	8081 Pesticides DoD	950	10						1000		26-Sep-17 16	14-Sep-17 15:10	18-Sep-17	DoD Level IV/Extra Liter		L				

S. Malaga 9/26/17  
Analyst Reviewed Date

[Signature] 9/26/17  
Manager Reviewed Date

Anthony Fern 9/26/17  
Extracts Prepared By Date



**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708093

Instrument: HPS17

Calibration: 1709047

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S708093-CAL1	AA170924.D	09/24/17 12:10
Cal Standard	S708093-CAL2	AB170924.D	09/24/17 12:29
Cal Standard	S708093-CAL3	AC170924.D	09/24/17 12:48
Cal Standard	S708093-CAL4	AD170924.D	09/24/17 13:06
Cal Standard	S708093-CAL5	AE170924.D	09/24/17 13:25
Initial Cal Check	S708093-ICV1	AF170924.D	09/24/17 13:43
Low Cal Check	S708093-LCV1	AG170924.D	09/24/17 14:02
Cal Standard	S708093-CAL6	AH170924.D	09/24/17 14:20
Cal Standard	S708093-CAL7	AI170924.D	09/24/17 14:39
Cal Standard	S708093-CAL8	AJ170924.D	09/24/17 14:57
Cal Standard	S708093-CAL9	AK170924.D	09/24/17 15:16
Cal Standard	S708093-CALA	AL170924.D	09/24/17 15:34
Initial Cal Check	S708093-ICV2	AM170924.D	09/24/17 15:53
Low Cal Check	S708093-LCV2	AN170924.D	09/24/17 16:11
Cal Standard	S708093-CALB	AP170924.D	09/24/17 16:30
Cal Standard	S708093-CALC	AQ170924.D	09/24/17 16:48
Cal Standard	S708093-CALD	AR170924.D	09/24/17 17:07
Cal Standard	S708093-CALE	AS170924.D	09/24/17 17:26
Cal Standard	S708093-CALF	AT170924.D	09/24/17 17:44
Initial Cal Check	S708093-ICV3	AU170924.D	09/24/17 18:03
Low Cal Check	S708093-LCV3	AV170924.D	09/24/17 18:21

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708605

Instrument: HPS17

Calibration: 1709047

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Performance Mix	S708605-PEM1	G1170927.D	09/27/17 17:57
Calibration Check	S708605-CCV1	C1170927.D	09/27/17 18:15
Calibration Check	S708605-CCV2	Y1170927.D	09/27/17 18:34
Calibration Check	S708605-CCV3	T1170927.D	09/27/17 18:52
Instrument Blank	S708605-IBL1	I1170927.D	09/27/17 19:11
Blank	1715920-BLK1	B1170927.D	09/27/17 19:29
LCS	1715920-BS1	L1170927.D	09/27/17 19:48
LCS Dup	1715920-BSD1	L2170927.D	09/27/17 20:07
TF1-GT-119-091117	1715920-DUP1	D1170927.D	09/27/17 20:25
TF1-GT-121-091117	SC39093-01	3909301Z.D	09/27/17 21:58
TF1-GT-119-091117	SC39093-02	3909302Z.D	09/27/17 22:16
Performance Mix	S708605-PEM2	G2170927.D	09/27/17 22:35
Calibration Check	S708605-CCV4	C2170927.D	09/27/17 22:53
Instrument Blank	S708605-IBL2	I2170926.D	09/27/17 23:12
TF1-GZ-103-091117	SC39093-03	3909303Z.D	09/27/17 23:31
Performance Mix	S708605-PEM3	G3170927.D	09/28/17 02:36
Calibration Check	S708605-CCV7	C3170927.D	09/28/17 02:55
Calibration Check	S708605-CCV5	Y3170927.D	09/28/17 03:14
Calibration Check	S708605-CCV6	T3170927.D	09/28/17 03:32
Instrument Blank	S708605-IBL3	I3170927.D	09/28/17 03:51
Performance Mix	S708605-PEM4	G4170927.D	09/28/17 05:42
Calibration Check	S708605-CCV8	C4170927.D	09/28/17 06:01
Instrument Blank	S708605-IBL4	I4170927.D	09/28/17 06:57

Comment:

Operator: sm

Data Path: G:\SEP2017\HPS17\DATA\PEST170924\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run            On A Barcode Mismatch  
 Full Method                     Inject Anyway  
 Reprocessing Only             Don't Inject

*JA*  
*9-24-17*

Line	Sample Name/Misc Info
1) Sample	1 H1170924 PS170731 HEXANE BLANL
2) Sample	2 P1170924 PS170731 PESTICIDE PRIMER
3) Sample	3 E1170924 PS170731 PEM#1
4) Sample	4 G0170924 PS170731 DEGRADATION CHECK
5) Sample	5 AA170924 PS170731 S708093CAL1 @1NG/ML PESTICIDE
6) Sample	6 AB170924 PS170731 S708093-CAL2 @10NG/ML PESTICI
7) Sample	7 AC170924 PS170731 S708093-CAL3 @ 50 NG/ML PESTI
8) Sample	8 AD170924 PS170731 S708093-CAL4 @100NG/ML PESTIC
9) Sample	9 AE170924 PS170731 S708093-CAL5 @250NG/ML PESTIC
10) Sample	10 AF170924 PS170731 S708093-ICV1 @ 50NG/ML PESTIC
11) Sample	11 AG170924 PS170731 S708093-LCV1 @1NG/ML PESTICID
12) Sample	12 AH170924 PS170731 S708093-CAL6 @ 0.02UG/ML CHLO
13) Sample	13 AI170924 PS170731 S708093-CAL7 @ 0.1UG/ML CHLOR
14) Sample	14 AJ170924 PS170731 S708093-CAL8 @ 0.5U/ML CHLORD
15) Sample	15 AK170924 PS170731 S708093-CAL9 @ 1.0UG/ML CHLOR
16) Sample	16 AL170924 PS170731 S708093-CALA @ 2.5UG/ML CHLOR
17) Sample	17 AM170924 PS170731 S708093-ICV2 @ 0.5UG/ML CHLOR
18) Sample	18 AN170924 PS170731 S708093-LCV2 @ 0.02UG/ML CHLO
19) Sample	19 AP170924 PS170731 S708093-CALB @ 0.1UG/ML TOXAP
20) Sample	20 AQ170924 PS170731 S708093-CALC @ 0.2UG/ML TOXAP
21) Sample	21 AR170924 PS170731 S708093-CALC @ 0.5UG/ML TOXAP
22) Sample	22 AS170924 PS170731 S708093-CALE @ 1.0UG/ML TOXAP
23) Sample	23 AT170924 PS170731 S708093-CALE @ 2.5UG/ML TOXAP
24) Sample	24 AU170924 PS170731 S708093-ICV3 @ 0.5UG/ML TOXAP
25) Sample	25 AV170924 PS170731 S708093-LCV3 @ 0.1UG/ML TOXAP
26) Sample	26 11170924 PS170731 INSTRUMENT BLANK IBK1
27) Sample	27 G1170924 PS170731 DEGRADATION CHECK DEG1
28) Sample	28 C1170924 PS170731 50NG/ML PESTICIDE CCV1
29) Sample	29 Y1170924 PS170731 0.5UG/ML CHLORDANE CCV1
30) Sample	30 T1170924 PS170731 0.5UG/ML TOXAPHENE CCV1
31) Sample	31 TEST1 PS170731 TEST1
32) Sample	32 TEST2 PS170731 TEST2
33) Sample	33 TEST3 PS170731 TEST3

Comment:

Operator: sm

Data Path: G:\SEP2017\HPS17\DATA\PEST170927\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

*ESJ*  
*10.3.17*

Method Sections To Run	On A Barcode Mismatch
(X) Full Method	(X) Inject Anyway
( ) Reprocessing Only	( ) Don't Inject

Line	Sample Name/Misc Info
1) Sample	1 H2170927 PS170731 HEXANE BLANK
2) Sample	2 P2170927 PS170731 PESTICIDE PRIMER
3) Sample	3 E2170927 PS170731 PEM#1
4) Sample	4 G1170927 PS170731 DEGRADATION CHECK DEG1
5) Sample	5 C1170927 PS170731 50NG/ML PESTICIDE CCV1
6) Sample	6 Y1170927 PS170731 0.5UG/ML CHLORDANE CCV1
7) Sample	7 T1170927 PS170731 0.5UG/ML TOXAPHENE CCV1
8) Sample	8 I1170927 PS170731 INSTRUMENT BLANK IBK1
9) Sample	9 B1170927 PS170731 1715920-BLK1 @ Solvent Blank
10) Sample	10 L1170927 PS170731 1715920-BS1 @ 50ng/ml pest B
11) Sample	11 L2170927 PS170731 1715920-BSD1 @ 50ng/ml pest
12) Sample	12 D1170927 PS170731 1715920-DUP1 @ SC39093-02 Dup
13) Sample	13 M1170927 PS170731 1715920-MS1 @ SC39266-01 Matr
14) Sample	14 M2170927 PS170731 1715920-MS2 @ SC39221-06 Matr
15) Sample	15 M3170927 PS170731 1715920-MSD1 @ SC39266-01 Mat
16) Sample	16 M4170927 PS170731 1715920-MSD2 @ SC39221-06 Mat
17) Sample	17 3909301Z PS170731 SC39093-01 @ TF1-GT-121-09111
18) Sample	18 3909302Z PS170731 SC39093-02 @ TF1-GT-119-09111
19) Sample	19 G2170927 PS170731 DEGRADATION CHECK DEG2
20) Sample	20 C2170927 PS170731 50NG/ML PESTICIDE CCV2
21) Sample	21 I2170926 PS170731 INSTRUMENT BLANK IBK2
22) Sample	22 3909303Z PS170731 SC39093-03 @ TF1-GZ-103-09111
23) Sample	23 3916301Z PS170731 SC39163-01 @ TF1-GT-130-09121
24) Sample	24 3916302Z PS170731 SC39163-02 @ TF1-GT-115-09121
25) Sample	25 3916303Z PS170731 SC39163-03 @ TF1-GT-111-09121
26) Sample	26 3916304Z PS170731 SC39163-04 @ TF1-GT-118-09121
27) Sample	27 3916305Z PS170731 SC39163-05 @ TF1-DUP-03-09121
28) Sample	28 3916306Z PS170731 SC39163-06 @ TF1-MW-1004-0912
29) Sample	29 3922101Z PS170731 SC39221-01 @ TF1-GZ-106-09131
30) Sample	30 3922102Z PS170731 SC39221-02 @ TF1-GT-117-09131
31) Sample	31 3922103Z PS170731 SC39221-03 @ TF1-GT-108-09131
32) Sample	32 G3170927 PS170731 DEGRADATION CHECK DEG3
33) Sample	33 C3170927 PS170731 50NG/ML PESTICIDE CCV3
34) Sample	34 Y3170927 PS170731 0.5UG/ML CHLORDANE CCV3
35) Sample	35 T3170927 PS170731 0.5UG/ML TOXAPHENE CCV3
36) Sample	36 I3170927 PS170731 INSTRUMENT BLANK IBK3
37) Sample	37 3922104Z PS170731 SC39221-04 @ TF1-MW-1008-0913
38) Sample	38 3922105Z PS170731 SC39221-05 @ TF1-DUP-04-09131
39) Sample	39 3922106Z PS170731 SC39221-06 @ TF1-MW-7-091317
40) Sample	40 3926601Z PS170731 SC39266-01 @ TF1-GT-136B-0914
41) Sample	41 3926602Z PS170731 SC39266-02 @ Grab-WILLH-09141
42) Sample	42 G4170927 PS170731 DEGRADATION CHECK DEG4
43) Sample	43 C4170927 PS170731 50NG/ML PESTICIDE CCV4

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	Y4170927	PS170731	0.5UG/ML CHLORDANE CCV4
45)	Sample	45	T4170927	PS170731	0.5UG/ML TOXAPHENE CCV4
46)	Sample	46	I4170927	PS170731	INSTRUMENT BLANK IBK4
47)	Sample	47	B3170927	PS170731	1716032-BLK1 @ Solvent Blank
48)	Sample	48	L5170927	PS170731	1716032-BS1 @ 50ng/ml pest B
49)	Sample	49	L6170927	PS170731	1716032-BSD1 @ 50ng/ml pest
50)	Sample	50	D3170927	PS170731	1716032-DUP1 @ SC39204-06 Dup
51)	Sample	51	M7170927	PS170731	1716032-MS1 @ SC39204-07 Matr
52)	Sample	52	M8170927	PS170731	1716032-MSD1 @ SC39204-07 Mat
53)	Sample	53	3920406Z	PS170731	SC39204-06 @ PE-RD-G5-NW-0913
54)	Sample	54	3920407Z	PS170731	SC39204-07 @ PE-RD3-N14-WW-09
55)	Sample	55	3920407R	PS170731	SC39204-07RE1 @ PE-RD3-N14-WW
56)	Sample	56	3920408Z	PS170731	SC39204-08 @ PE-RD3-O14-WW-09
57)	Sample	57	3920408R	PS170731	SC39204-08RE1 @ PE-RD3-O14-WW
58)	Sample	58	I5170927	PS170731	INSTRUMENT BLANK IBK5
59)	Sample	59	G5170927	PS170731	DEGRADATION CHECK DEG5
60)	Sample	60	C5170927	PS170731	50NG/ML PESTICIDE CCV5

# CROSS REFERENCE TABLE

## Mod EPA 3C/SOP RSK-175

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

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<b>Client Sample ID:</b>	<b>Lab Sample ID:</b>
<u>TF1-GT-121-091117</u>	<u>SC39093-01</u>
<u>TF1-GT-119-091117</u>	<u>SC39093-02</u>
<u>TF1-GZ-103-091117</u>	<u>SC39093-03</u>

## CASE NARRATIVE

**Spectrum Analytical, Inc. Lab Reference No. SC39093**

**Client: Tetra Tech, Inc. - Salem, NH**

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

**SDG #: SC39093**

### **I. RECEIPT**

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

### **II. HOLDING TIMES**

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

### **III. METHODS**

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

### **IV. PREPARATION**

Aqueous samples were prepared according to General Air Prep.

### **V. INSTRUMENTATION**

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

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

### **VI. ANALYSIS**

#### **A. Calibration:**

All quality control samples were within the acceptance criteria.

#### **B. Blanks:**

All blanks were within the acceptance criteria.

#### **C. Spikes:**

##### **1. Laboratory Control Samples (LCS):**

All method criteria were met.

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

No matrix spike or matrix spike duplicates were analyzed.

**D. Duplicates:**

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

**E. Samples:**

All method criteria were met.



# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

## Mod EPA 3C/SOP RSK-175

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Matrix: Aqueous    Instrument: Air5  
Batch: 1715864    Laboratory ID: 1715864-BS1  
Preparation: General Air Prep    Initial/Final: 10 µg / 10 µg  
Analyzed: 09/15/17 09:24    Spike ID: 17F0404  
File ID: 091517-chanb-002-0

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Methane	500	453	91	73 - 125
Ethane	500	517	103	74 - 131

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

\* Values outside of QC limits

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

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

<u>1715864-BLK1</u>
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Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Laboratory ID:	<u>1715864-BLK1</u>
		File ID:	<u>091517-chanb-003-0</u>
		Preparation:	<u>General Air Prep</u>
		Initial/Final:	<u>10 µg / 10 µg</u>
Analyzed:	<u>09/15/17 10:02</u>	Instrument:	<u>Air5</u>
Batch:	<u>1715864</u>	Sequence:	<u>S708265</u>
		Calibration:	<u>1707028</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715864-BS1	091517-chanb-002-0	09/15/17	9:24
TF1-GT-121-091117	SC39093-01	091517-chanb-004-0	09/15/17	10:24
TF1-GT-119-091117	SC39093-02	091517-chanb-005-0	09/15/17	10:56
TF1-GZ-103-091117	SC39093-03	091517-chanb-006-0	09/15/17	11:18



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

## Mod EPA 3C/SOP RSK-175

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

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

**Quality Control Reference List**  
**EPH/Miscellaneous GC**

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: THO39**

**Fraction: Custom TPH by GC with Ranges**

<b>Analysis</b>	<b>Batch Number</b>	<b>Sample Number</b>	<b>Analysis Date</b>
Custom TPH with Ranges (Water)	172570043A	PBLK43257	09/18/2017 14:16:00
		LCS43257	09/18/2017 14:37:00
		LCSD43257	09/18/2017 14:59:00
		9208998	09/18/2017 15:20:00
		9208999	09/18/2017 15:42:00
		9209000	09/18/2017 16:03:00

## Case Narrative/Conformance Summary

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: THO39**

### EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

Sample #	Client ID	Matrix		DF	Comments
		Liquid	Solid		
9208998	SC39093-01	X		1	
9208999	SC39093-02	X		1	
9209000	SC39093-03	X		1	

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

#### SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

#### HOLDING TIME:

All holding times were met.

#### PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

#### CALIBRATION/STANDARDIZATION:

All criteria were met.

#### QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

##### MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

#### SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Fraction: Custom TPH by GC with Ranges

<b>172570043A / PBLK43257</b> <b>Analyte</b>	<b>Analysis Date</b>	<b>Blank Results</b>	<b>Units</b>	<b>DL</b>	<b>LOD</b>	<b>LOQ</b>
Total TPH	09/18/17	N.D.	mg/l	0.050	0.10	0.20
C8-C44	09/18/17	N.D.	mg/l	0.050	0.10	0.20

Fraction: Custom TPH by GC with Ranges

172570043A Sample	Chlorobenzene		Orthoterphenyl	
	Spike Added	0.0121 mg/l	Spike Added	0.0121 mg/l
	% Recovery	Limits	% Recovery	Limits
PBLK43257	54	35 - 135	87	56 - 125
LCS43257	62	35 - 135	72	56 - 125
LCSD43257	86	35 - 135	91	56 - 125
9208998	91	35 - 135	95	56 - 125
9208999	94	35 - 135	93	56 - 125
9209000	75	35 - 135	90	56 - 125



SDG: THO39  
Matrix: LIQUID

**EPH/Miscellaneous GC**

Fraction: Custom TPH by GC with Ranges

LCS: LCS43257 LCSD: LCSD43257  Analyte	Batch: 172570043A (Sample number(s): 9208998-9209000 )							
	Spike Added mg/l	LCS Conc mg/l	LCSD Conc mg/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Total TPH	0.800	0.487	0.642	61	80	36-132	27	30

Fraction: Custom TPH by GC with Ranges

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

Organic Extraction Batchlog

Assigned to: 9121 Bradley VanLeuven

Reviewed by: JE1173

Start Date: 9/15/17

Start time: 10:00

**172570043A**

Tech 1: W 9121

Tech 2: \_\_\_\_\_

Dept: 32		Prep Analysis: 11181 Custom TPH w/ Ranges Water Ext				Custom TPH with Ranges (Water)					
QC	Sample Code	Amt mL	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANKA	PBLK43257	1000	SS1724332D	1.0			1	7	7	7	DI H2O
LCSA	LCS43257	1000	SS1724332D	↓	MS1724432A	1.0	1	7	7	7	
LCSDA	LCSD43257	1000	SS1724332D	↓	MS1724432A	↓	1	7	7	7	↓

Solvent Used	Lot No.
1:1 HCl	G180-05
Methylene Chloride	175710
Sodium Sulfate	17251A

Spike Solutions: \_\_\_\_\_ Witness: N/A  
 MS1724432A DRO WATER SPIKE  
 SS1724332D DRO WATER SURROGATE

Sample #	Sample Code	Amt mL	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	List	Due Date	Prio
1	9194291 R AMP-1	1057	SS1724332D	1.0	1	7	7	43B	tan cloudy	02740	13583	09/18/2017	N
2	9194292 R AMP-2	1059	SS1724332D	↓	1	7	7	43B	↓	02740	13583	09/18/2017	N
3	9194293 R AMP-3	1059	SS1724332D	↓	1	7	7	43B	↓	02740	13583	09/18/2017	N
4	9194315 R AMFD2	1060	SS1724332D	↓	1	7	7	43B	↓	02740	13583	09/18/2017	N
5	9202720 1300-	1058	SS1724332D	↓	1	7	7	43A	clear	02740	13335	09/22/2017	N
6	9202724 --150	1061	SS1724332D	↓	1	7	7	43A	tan cloudy	02740	13335	09/22/2017	N
7	9205820 SS-81	1026	SS1724332D	↓	1	7	7	43A	↓	02740	4317	09/25/2017	N
8	9205822 SS-77	1041	SS1724332D	↓	1	7	7	43A	↓	02740	4317	09/25/2017	N
9	9205824 SS-FB	1030	SS1724332D	↓	1	7	7	43A	clear	02740	4317	09/25/2017	N
10	9205826 SS-DP	1024	SS1724332D	↓	1	7	7	43A	tan cloudy	02740	4317	09/25/2017	N
11	9208998 39T01	997	SS1724332D	↓	1	7	7	29A	clear	02740	24604	09/26/2017	N
12	9208999 39T02	994	SS1724332D	↓	1	7	7	29A	↓	02740	24604	09/26/2017	N
13	9209000 39T03	998	SS1724332D	↓	1	7	7	29A	↓	02740	24604	09/26/2017	N

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Bench#	Bench#	Bench#
Rack ID:		Work Station <u>H203</u>
Internal Standard		Balance # <u>25996</u>
		Micro Temp <u>100?</u>

R-VAP ID	C	R-VAP ID	C	R-VAP ID	C
S-bath ID	<u>88</u>	S-bath ID	C	N-Evap	C
		M-vap	C		

N/A

172570043A



**Quality Control Reference List**  
**PFAS Group**

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: THO39**

**Fraction: PFAS by LC/MS/MS**

<b>Analysis</b>	<b>Batch Number</b>	<b>Sample Number</b>	<b>Analysis Date</b>
PFAS in Water by LC/MS/MS	17262001	BLK262001B	09/22/2017 03:25:00
		LCS262001Q	09/22/2017 02:03:00
		LCSDAY	09/22/2017 02:23:00
		9208998 MS	09/22/2017 02:44:00
		9208998 UNSPK	09/22/2017 03:46:00
		9208999	09/22/2017 04:06:00
		9209000	09/22/2017 04:27:00
		9209001	09/22/2017 04:47:00

## Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical  
SDG: THO39

### PFAS Group

Fraction: PFAS by LC/MS/MS

Sample #	Client ID	Matrix		DF	Comments
		Liquid	Solid		
9208998	SC39093-01	X		1	
9208999	SC39093-02	X		1	
9209000	SC39093-03	X		1	
9209001	SC39093-04	X		1	

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

### SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

### HOLDING TIME:

All holding times were met.

### PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

### CALIBRATION/STANDARDIZATION:

All criteria were met.

### QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

#### Surrogate

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted.

(Sample number(s): 9208998-9209001: Analysis: 10954)

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

### SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Fraction: PFAS by LC/MS/MS

<b>17262001 / BLK262001B</b> <b>Analyte</b>	<b>Analysis Date</b>	<b>Blank Results</b>	<b>Units</b>	<b>DL</b>	<b>LOD</b>	<b>LOQ</b>
Perfluorooctanoic acid	09/22/17	N.D.	ng/l	0.6	2	2
Perfluorononanoic acid	09/22/17	N.D.	ng/l	0.6	2	2
Perfluorodecanoic acid	09/22/17	N.D.	ng/l	0.5	2	2
Perfluoroundecanoic acid	09/22/17	N.D.	ng/l	1	3	3
Perfluorododecanoic acid	09/22/17	N.D.	ng/l	0.5	2	2
Perfluorotridecanoic acid	09/22/17	N.D.	ng/l	0.5	2	2
Perfluorotetradecanoic acid	09/22/17	N.D.	ng/l	0.5	2	2
Perfluorohexanoic acid	09/22/17	N.D.	ng/l	0.6	2	2
Perfluoroheptanoic acid	09/22/17	N.D.	ng/l	0.5	2	2
Perfluorobutanesulfonate	09/22/17	N.D.	ng/l	0.8	3	3
Perfluorohexanesulfonate	09/22/17	N.D.	ng/l	1	3	3
Perfluoro-octanesulfonate	09/22/17	N.D.	ng/l	2	6	6
Perfluorobutanoic Acid	09/22/17	N.D.	ng/l	3	10	10
Perfluoropentanoic Acid	09/22/17	N.D.	ng/l	0.5	2	2
Perfluoroheptanesulfonate	09/22/17	N.D.	ng/l	2	6	6
Perfluorodecanesulfonate	09/22/17	N.D.	ng/l	2	6	6
PFOSA	09/22/17	N.D.	ng/l	3	9	9



SDG No.: THO39  
Matrix: WATER

17262001	Limits	13C2-PFDODA	13C2-PFTEDA	13C3-PFBS	13C3-PFHXS	13C4-PFBA
		28-127	26-119	26-148	34-126	33-123
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS262001	09/22/17 02:03	63	66	69	84	74
LCSDA	09/22/17 02:23	67	68	73	78	75
9208998MS	09/22/17 02:44	70	64	94	87	73
BLK262001	09/22/17 03:25	66	73	78	83	80
9208998	09/22/17 03:46	61	59	81	72	69
9208999	09/22/17 04:06	55	55	85	78	66
9209000	09/22/17 04:27	54	57	96	79	74
9209001	09/22/17 04:47	59	61	85	85	76

\* Outside QC Limits

SDG No.: THO39  
Matrix: WATER

17262001		13C4-PFHPA	13C5-PFHXA	13C5-PFPEA	13C6-PFDA	13C7-PFUNDA
	<b>Limits</b>	35-126	31-128	39-135	40-115	30-128
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS262001	09/22/17 02:03	76	80	70	73	70
LCSDA	09/22/17 02:23	75	72	66	74	70
9208998MS	09/22/17 02:44	73	86	77	70	71
BLK262001	09/22/17 03:25	74	87	79	79	73
9208998	09/22/17 03:46	64	73	74	71	67
9208999	09/22/17 04:06	69	76	75	62	62
9209000	09/22/17 04:27	80	81	83	72	59
9209001	09/22/17 04:47	82	89	76	76	64

\* Outside QC Limits



SDG No.: THO39  
Matrix: WATER

17262001		13C8-PFOA	13C8-PFOS	13C8-PFOSA	13C9-PFNA
	<b>Limits</b>	43-112	43-115	70-130	32-134
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery
LCS262001	09/22/17 02:03	83	72	17 *	68
LCSDA	09/22/17 02:23	64	85	6 *	71
9208998MS	09/22/17 02:44	69	77	10 *	71
BLK262001	09/22/17 03:25	79	70	18 *	78
9208998	09/22/17 03:46	67	70	10 *	68
9208999	09/22/17 04:06	65	66	17 *	64
9209000	09/22/17 04:27	76	74	8 *	70
9209001	09/22/17 04:47	74	74	13 *	66

\* Outside QC Limits

**PFAS Group**

Fraction: PFAS by LC/MS/MS

UNSPK: 9208998 MS: 9208998  Analyte	Batch: 17262001 (Sample number(s): 9208998-9209001 )								
	Spike Added ng/l	Unspiked Conc ng/l	MS Conc ng/l	MSD Conc ng/l	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits
Perfluorooctanoic acid	13.66	14.68	30.47	NA	116	NA	70-130	NA	NA
Perfluorononanoic acid	13.66	N.D.	13.5	NA	99	NA	70-130	NA	NA
Perfluorodecanoic acid	13.66	0.878	14.93	NA	103	NA	70-130	NA	NA
Perfluoroundecanoic acid	13.66	N.D.	14.27	NA	104	NA	70-130	NA	NA
Perfluorododecanoic acid	13.66	N.D.	13.62	NA	100	NA	70-130	NA	NA
Perfluorotridecanoic acid	13.66	N.D.	15.16	NA	111	NA	70-130	NA	NA
Perfluorotetradecanoic acid	13.66	N.D.	14.32	NA	105	NA	70-130	NA	NA
Perfluorohexanoic acid	13.66	48.33	62.53	NA	104	NA	70-130	NA	NA
Perfluoroheptanoic acid	13.66	12.24	26.5	NA	104	NA	70-130	NA	NA
Perfluorobutanesulfonate	12.09	8.54	20.96	NA	103	NA	70-130	NA	NA
Perfluorohexanesulfonate	12.92	12.93	24.54	NA	90	NA	70-130	NA	NA
Perfluoro-octanesulfonate	13.06	2.23	14.55	NA	94	NA	70-130	NA	NA
Perfluorobutanoic Acid	13.66	21.24	34.34	NA	96	NA	70-130	NA	NA
Perfluoropentanoic Acid	13.66	50.94	67.6	NA	122	NA	70-130	NA	NA
Perfluoroheptanesulfonate	12.55	N.D.	12.85	NA	102	NA	70-130	NA	NA
Perfluorodecanesulfonate	13.16	N.D.	11.59	NA	88	NA	70-130	NA	NA
PFOSA	13.66	N.D.	13.11	NA	96	NA	70-130	NA	NA

Comments:

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

\* = Out of Specification

Results are being reported on an as received basis.

SDG: THO39  
Matrix: LIQUID

**PFAS Group**  
Fraction: PFAS by LC/MS/MS

LCS: LCS262001Q LCSD: LCSDAY  Analyte	Batch: 17262001 (Sample number(s): 9208998-9209001 )							
	Spike Added ng/l	LCS Conc ng/l	LCSD Conc ng/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Perfluorooctanoic acid	13.6	11.83	13.41	87	99	70-130	12	30
Perfluorononanoic acid	13.6	16.14	14.46	119	106	70-130	11	30
Perfluorodecanoic acid	13.6	12.92	11.96	95	88	70-130	8	30
Perfluoroundecanoic acid	13.6	12.29	14.49	90	107	70-130	16	30
Perfluorododecanoic acid	13.6	13.25	13.53	97	99	70-130	2	30
Perfluorotridecanoic acid	13.6	14.18	15.2	104	112	70-130	7	30
Perfluorotetradecanoic acid	13.6	13.61	13.96	100	103	70-130	3	30
Perfluorohexanoic acid	13.6	13.82	13.84	102	102	70-130	0	30
Perfluoroheptanoic acid	13.6	15.25	12.17	112	89	70-130	22	30
Perfluorobutanesulfonate	12.03	11.34	11.27	94	94	70-130	1	30
Perfluorohexanesulfonate	12.86	12.66	13.38	98	104	70-130	6	30
Perfluoro-octanesulfonate	13	11.64	11.18	90	86	70-130	4	30
Perfluorobutanoic Acid	13.6	14.22	13.63	105	100	70-130	4	30
Perfluoropentanoic Acid	13.6	12.74	13.05	94	96	70-130	2	30
Perfluoroheptanesulfonate	12.49	12.81	12.17	103	97	70-130	5	30
Perfluorodecanesulfonate	13.1	11.02	9.92	84	76	70-130	10	30
PFOSA	13.6	12.76	11.7	94	86	70-130	9	30



SDG No.: THO39  
Matrix: WATER

17262001		13C2-PFDA	13C2-PFOA	13C3-PFBA	13C4-PFOS
		Area	Area	Area	Area
<b>Average ICAL Response</b>		339765	262013	469829	148338
<b>UPPER LIMIT</b>		509648	393020	704744	222507
<b>LOWER LIMIT</b>		169883	131007	234915	74169
LAB SAMPLE ID	DATE ANALYZED				
LCS262001	09/22/17 02:03	433700	306425	658460	187890
LCSDA	09/22/17 02:23	404707	314379	640866	181129
9208998MS	09/22/17 02:44	381493	305678	583247	185365
BLK262001	09/22/17 03:25	369142	306174	580675	182469
9208998	09/22/17 03:46	363618	334218	580899	189968
9208999	09/22/17 04:06	361788	306513	513292	188307
9209000	09/22/17 04:27	351490	320922	503721	176032
9209001	09/22/17 04:47	290876	286529	557271	172301

AREA: Upper limit: 150% of the internal standard area.  
Lower Limit: 50% of the internal standard area.

\* Outside QC Limits

Fraction: PFAS by LC/MS/MS

10954: PFAS in Water by LC/MS/MS Analyte Name	Default DL	Default LOD	Default LOQ	Units
Perfluorooctanoic acid	.6	2	2	ng/l
Perfluorononanoic acid	.6	2	2	ng/l
Perfluorodecanoic acid	.5	2	2	ng/l
Perfluoroundecanoic acid	1	3	3	ng/l
Perfluorododecanoic acid	.5	2	2	ng/l
Perfluorotridecanoic acid	.5	2	2	ng/l
Perfluorotetradecanoic acid	.5	2	2	ng/l
Perfluorohexanoic acid	.6	2	2	ng/l
Perfluoroheptanoic acid	.5	2	2	ng/l
Perfluorobutanesulfonate	.8	3	3	ng/l
Perfluorohexanesulfonate	1	3	3	ng/l
Perfluoro-octanesulfonate	2	6	6	ng/l
Perfluorobutanoic Acid	3	10	10	ng/l
Perfluoropentanoic Acid	.5	2	2	ng/l
Perfluoroheptanesulfonate	2	6	6	ng/l
Perfluorodecanesulfonate	2	6	6	ng/l
PFOSA	3	9	9	ng/l

Organic Extraction Batchlog

Assigned to: 9213 Pamela Rothharpt

Reviewed by: JWK924

Start Date: 9/19/17

Start time: 9:05

**17262001**

Tech 1: PJR9213

Tech 2: \_\_\_\_\_

Analyses on Batch: PFAS in Water by LC/MS/MS

Dept: 33 Prep Analysis: 14091 PFAS Water Prep											
Port#	QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (uL)	IS amt (uL)	BC	Comments
5	9208998MS	39T01MS	99.53	SSMODX1733AH	.025	MSMODX1733X	.04	1ml	20	201a	
1	BLANKA	BLK262001	100	SSMODX1733AH	.025	---	---	↓	↓	Z	
2	LCSA	LCS262001	100	SSMODX1733AH	.025	MSMODX1733X	.04	↓	↓	Z	
3	LCSDA	LCSD262001	100	SSMODX1733AH	.025	MSMODX1733X	.04	↓	↓	Z	

Spike Solutions: Witness: 4072657

Instrument: LM24960

MSMODX1733X PFAS 537 Native Spike

Sequence: 17SEP13MOD-(17SEP21)(17SEP25)

SSMODX1733AH PFAS 537 Modified Extraction/Surrogate Spik

Port#	Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (uL)	IS Amt (uL)	BC	Comments	Analyses	Due Date	Prio
39	1 9208998	39T0	100.34	SSMODX1733AF	.025	1ml	20	201a	cloudy, sediment	10954	09/26/2017	N
39	2 9208999	39T0	100.36	SSMODX1733AF	.025	↓	↓	201a		10954	09/26/2017	N
Page 70300	3 9209000	39T0	99.94	SSMODX1733AF	.025	↓	↓	201a	light brown, sediment	10954	09/26/2017	N
70300	4 9209001	39T0	100.29	SSMODX1733AF	.025	↓	↓	201a		10954	09/26/2017	N
704	5 9210929	O400	100.05	SSMODX1733AF	.025	↓	↓	201a	light brown, sediment	10954	09/27/2017	N
704	6 9210930	O400	99.68	SSMODX1733AF	.025	↓	↓	201a	light brown, sediment	10954	09/27/2017	N
12	7 9210931	O400	100.07	SSMODX1733AF	.025	↓	↓	201a		10954	09/27/2017	N
1	8 9210932	O400	99.64	SSMODX1733AF	.025	↓	↓	201a	light brown sediment	10954	09/27/2017	N
2	9 9210933	O400	100.49	SSMODX1733AF	.025	↓	↓	201a	light brown, sediment	10954	09/27/2017	N
3	10 9210934	O400	99.71	SSMODX1733AF	.025	↓	↓	201a		10954	09/27/2017	N
4	11 9210935	O400	100.11	SSMODX1733AF	.025	↓	↓	201a	dark brown, sediment	10954	09/27/2017	N
4	12 9210936	O400	99.64	SSMODX1733AF	.025	↓	↓	201a		10954	09/27/2017	N

Balance # B6297W122

SPE Manifold 4,7 N-evap C

17262001

DF = Dilution Factor FV = Final Volume

Documented temps are NIST corrected.



Reagents used During Extraction

Reagent/Material/Equip	Lot No./ID No.
96% MeOH:H2O	—
Acetate Buffer	2707948
Acetonitrile	—
Auto-pipette (dilutions)	—
Auto-pipette (extract vialin)	P1000-3
Internal Standard	I51726233A
Methanol	DS096-US
Milli-Q H2O	2547809181733A
NH4OH:H2O	2547809181733B
NH4OH:MeOH	U370231-02③
SPE Cartridge #1	—
SPE Cartridge #2	—
Sodium Thiosulfate	—
Syringe (IS)	I51
Syringe (MS)	PFAS10
Syringe (SS)	PFAS9
Trizma	SLBT 4699

Mouse A223  
 2547809181733A  
 2547809181733B  
 2547809181733B  
 → U370231-02

③ PJK9213 9/26/17

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# CROSS REFERENCE TABLE

## SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

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<b>Client Sample ID:</b>	<b>Lab Sample ID:</b>
<u>TF1-GT-121-091117</u>	<u>SC39093-01</u>
<u>TF1-GT-119-091117</u>	<u>SC39093-02</u>
<u>TF1-GZ-103-091117</u>	<u>SC39093-03</u>
<u>TF1-GZ-103-091117</u>	<u>SC39093-03RE1</u>



## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39093

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39093

### I. RECEIPT

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

### II. HOLDING TIMES

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

### III. METHODS

Analyses were performed according to SW846 6010C.

### IV. PREPARATION

Aqueous samples were prepared according to SW846 3005A.

### V. INSTRUMENTATION

The following equipment was used to analyze SW846 6010C:

ICAP5 details: Thermo ICAP 6000 series CETAC Autosampler

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

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

### VI. ANALYSIS

#### A. Calibration:

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

In sample S708796-CRL1:

Low level calibration check failed, reporting limit has been elevated.

Iron

In sample S708828-CRL3:

Low level calibration check failed, reporting limit has been elevated.

Iron

In sample S708828-CRL5:

Low level calibration check failed, reporting limit has been elevated.

Iron

In sample S708796-ICV1:

QC recovery was outside of acceptance range however it was re-run before samples were run and was within the control limits.

Iron

In sample S708796-ICV1:

Analyte percent recovery is outside individual acceptance criteria (90-110).

Iron (111%)

This affected the following samples:

S708796-CCV1

**B. Blanks:**

All blanks were within the acceptance criteria.

**C. Spikes:**

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

All method criteria were met.

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

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1716277 from source sample TF1-GZ-103-091117 (SC39093-03).

In batch 1716530 from source sample TF1-GZ-103-091117 (SC39093-03).

All method criteria were met with the following exceptions:

Iron in batch 1716277, lab sample 1716277-MS1 from source sample TF1-GZ-103-091117 (SC39093-03): The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Iron in batch 1716277, lab sample 1716277-MSD1 from source sample TF1-GZ-103-091117 (SC39093-03): The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

**3. Post Spike Samples (PS):**

A post spike was analyzed.

In batch 1716277 from source sample TF1-GZ-103-091117 (SC39093-03).

In batch 1716530 from source sample TF1-GZ-103-091117 (SC39093-03).

All method criteria were met with the following exceptions:

Iron in batch 1716277, lab sample 1716277-PS1 from source sample TF1-GZ-103-091117 (SC39093-03): The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

**D. Duplicates:**

A duplicate was analyzed.

In batch 1716277 from source sample TF1-GZ-103-091117 (SC39093-03).

In batch 1716530 from source sample TF1-GZ-103-091117 (SC39093-03).

All method criteria were met with the following exceptions:

Iron in batch 1716277, sample 1716277-DUP1 from source sample TF1-GZ-103-091117 (SC39093-03): MRL raised to correlate to batch QC reporting limits.

**E. Serial Dilutions:**

All quality control criteria were met.

**F. Samples:**

All method criteria were met with the following exceptions:

Iron in batch 1716277, samples TF1-GT-119-091117 (SC39093-02), TF1-GT-121-091117 (SC39093-01), TF1-GZ-103-091117 (SC39093-03): MRL raised to correlate to batch QC reporting limits.

**FORM III - BLANKS****SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: ICAP5Calibration: 1710008Sequence: S708796

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
S708796-ICB1	Iron	BRL	0.0800	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.100	mg/l	U	SW846 6010C
	Calcium	BRL	0.500	mg/l	U	SW846 6010C
	Magnesium	BRL	0.100	mg/l	U	SW846 6010C
S708796-CCB1	Iron	BRL	0.0800	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.100	mg/l	U	SW846 6010C
	Calcium	BRL	0.500	mg/l	U	SW846 6010C
	Magnesium	BRL	0.100	mg/l	U	SW846 6010C

**FORM III - BLANKS****SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: ICAP5Calibration: 1710008Sequence: S708828

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S708828-CCB1	Iron	0.0179	0.0300	mg/l	J	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCB2	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
1716277-BLK1	Iron	BRL	0.0800	mg/l	U	SW846 6010C
	Sodium	0.164	0.500	mg/l	J	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	0.0178	0.200	mg/l	J	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCB3	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCB4	Iron	0.0161	0.0300	mg/l	J	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCB5	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCB6	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCB7	Sodium	BRL	0.500	mg/l	U	SW846 6010C

**FORM III - BLANKS****SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: ICAP5Calibration: 1710008Sequence: S708828

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S708828-CCB7	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCB8	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCB9	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCBA	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCBB	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	0.0161	0.200	mg/l	J	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCBC	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCBD	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	0.025	0.200	mg/l	J	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C

**FORM III - BLANKS****SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: ICAP5Calibration: 1711058Sequence: S710437

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
S710437-ICB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710437-CCB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C

**FORM III - BLANKS****SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: ICAP5Calibration: 1711058Sequence: S710438

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710438-CCB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
1716530-BLK1	Potassium	0.351	1.00	mg/l	J	SW846 6010C
S710438-CCB2	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB3	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB4	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB5	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB6	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB7	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB8	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C



# FORM IV - ICP INTERFERENCE CHECK SAMPLE

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: ICAP5

Calibration: 1710008

Sequence: S708828

Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S708828-IFA1	Iron	100	102.60000	103
	Magnesium	250	237.10000	95
	Iron	100	102.60000	103
	Sodium		0.05760	
	Aluminum	250	246.20000	98
	Aluminum	250	246.20000	98
	Calcium	250	254.40000	102
S708828-IFB1	Calcium	250	254.40000	102
	Magnesium	250	237.10000	95
	Iron	100	99.02000	99
	Magnesium	250	227.70000	91
	Iron	100	99.02000	99
	Sodium		0.05600	
	Aluminum	250	235.80000	94
S708828-IFA2	Aluminum	250	235.80000	94
	Calcium	250	246.10000	98
	Calcium	250	246.10000	98
	Magnesium	250	227.70000	91
	Iron	100	103.70000	104
	Magnesium	250	241.10000	96
	Iron	100	103.70000	104
S708828-IFB2	Sodium		0.03970	
	Aluminum	250	248.80000	100
	Aluminum	250	248.80000	100
	Calcium	250	256.80000	103
	Calcium	250	256.80000	103
	Magnesium	250	241.10000	96
	Iron	100	100.30000	100
S708828-IFB2	Magnesium	250	231.90000	93
	Iron	100	100.30000	100

# FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: ICAP5

Calibration: 1710008

Sequence: S708828

Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S708828-IFB2	Sodium		0.04180	
	Aluminum	250	239.50000	96
	Aluminum	250	239.50000	96
	Calcium	250	248.30000	99
	Calcium	250	248.30000	99
	Magnesium	250	231.90000	93
S708828-IFA3	Iron	100	99.17000	99
	Magnesium	250	225.40000	90
	Iron	100	99.17000	99
	Sodium		0.01980	
	Aluminum	250	230.00000	92
	Aluminum	250	230.00000	92
	Calcium	250	249.50000	100
	Calcium	250	249.50000	100
	Magnesium	250	225.40000	90
S708828-IFB3	Iron	100	99.13000	99
	Magnesium	250	224.90000	90
	Iron	100	99.13000	99
	Sodium		0.02490	
	Aluminum	250	229.00000	92
	Aluminum	250	229.00000	92
	Calcium	250	247.80000	99
	Calcium	250	247.80000	99
	Magnesium	250	224.90000	90
S708828-IFA4	Iron	100	98.91000	99
	Magnesium	250	226.30000	91
	Sodium		0.05010	
	Aluminum	250	234.20000	94
	Aluminum	250	234.20000	94
	Calcium	250	252.00000	101

# FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: ICAP5

Calibration: 1710008

Sequence: S708828

Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S708828-IFA4	Calcium	250	252.00000	101
	Magnesium	250	226.30000	91
S708828-IFB4	Iron	100	101.00000	101
	Magnesium	250	231.50000	93
	Sodium		0.04900	
	Aluminum	250	239.80000	96
	Aluminum	250	239.80000	96
	Calcium	250	253.30000	101
	Calcium	250	253.30000	101
	Magnesium	250	231.50000	93
S708828-IFA5	Iron	100	102.20000	102
	Magnesium	250	237.20000	95
	Sodium		0.04620	
	Aluminum	250	246.40000	99
	Aluminum	250	246.40000	99
	Calcium	250	255.70000	102
	Calcium	250	255.70000	102
	Magnesium	250	237.20000	95
S708828-IFB5	Iron	100	101.30000	101
	Magnesium	250	232.70000	93
	Sodium		0.04520	
	Aluminum	250	240.80000	96
	Aluminum	250	240.80000	96
	Calcium	250	253.60000	101
	Calcium	250	253.60000	101
	Magnesium	250	232.70000	93
S708828-IFA6	Iron	100	99.13000	99
	Magnesium	250	230.60000	92
	Sodium		0.05700	
	Aluminum	250	239.60000	96

# FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: ICAP5

Calibration: 1710008

Sequence: S708828

Units: mg/l

Lab Sample ID	Analyte	True	Found	%R	
S708828-IFA6	Aluminum	250	239.60000	96	
	Calcium	250	248.30000	99	
	Calcium	250	248.30000	99	
	Magnesium	250	230.60000	92	
S708828-IFB6	Iron	100	98.15000	98	
	Magnesium	250	223.30000	89	
	Sodium		0.05040		
	Aluminum	250	231.10000	92	
	Aluminum	250	231.10000	92	
	Calcium	250	247.70000	99	
	Calcium	250	247.70000	99	
	Magnesium	250	223.30000	89	
	S708828-IFA7	Iron	100	98.92000	99
		Magnesium	250	228.50000	91
Sodium			0.05280		
Aluminum		250	238.00000	95	
Aluminum		250	238.00000	95	
Calcium		250	249.70000	100	
Calcium		250	249.70000	100	
Magnesium		250	228.50000	91	
S708828-IFB7		Iron	100	99.37000	99
		Magnesium	250	231.00000	92
	Sodium		0.05510		
	Aluminum	250	241.30000	97	
	Aluminum	250	241.30000	97	
	Calcium	250	248.70000	99	
	Calcium	250	248.70000	99	
	Magnesium	250	231.00000	92	

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

# FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: ICAP5

Calibration: 1711058

Sequence: S710438

Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S710438-IFA1	Iron	100	101.10000	101
	Magnesium	250	233.50000	93
	Iron	100	101.10000	101
	Potassium		-0.04250	
	Aluminum	250	252.80000	101
S710438-IFB1	Calcium	250	250.30000	100
	Iron	100	102.50000	102
	Magnesium	250	231.40000	93
	Iron	100	102.50000	102
	Potassium		-0.04270	
S710438-IFA2	Aluminum	250	245.20000	98
	Calcium	250	251.90000	101
	Iron	100	100.20000	100
	Magnesium	250	229.60000	92
	Iron	100	100.20000	100
S710438-IFB2	Potassium		-0.03510	
	Aluminum	250	248.20000	99
	Calcium	250	247.70000	99
	Iron	100	98.56000	99
	Magnesium	250	227.90000	91
S710438-IFA3	Iron	100	98.56000	99
	Potassium		-0.03380	
	Aluminum	250	246.90000	99
	Calcium	250	247.00000	99
	Iron	100	97.76000	98
S710438-IFA3	Magnesium	250	226.80000	91
	Iron	100	97.76000	98
	Potassium		-0.05410	
	Aluminum	250	244.90000	98
	Calcium	250	246.20000	98

# FORM IV - ICP INTERFERENCE CHECK SAMPLE

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: ICAP5

Calibration: 1711058

Sequence: S710438

Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S710438-IFB3	Iron	100	96.88000	97
	Magnesium	250	227.90000	91
	Iron	100	96.88000	97
	Potassium		-0.03890	
	Aluminum	250	248.70000	99
	Calcium	250	243.80000	98
S710438-IFA4	Iron	100	97.54000	98
	Magnesium	250	231.80000	93
	Iron	100	97.54000	98
	Potassium		-0.06110	
	Aluminum	250	254.70000	102
	Calcium	250	246.60000	99
S710438-IFB4	Iron	100	98.34000	98
	Magnesium	250	226.80000	91
	Iron	100	98.34000	98
	Potassium		-0.06010	
	Aluminum	250	243.20000	97
	Calcium	250	246.80000	99

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

**FORM Vb - POST DIGEST SPIKE SAMPLE RECOVERY**

TF1-GZ-103-091117

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1716277-PS1

Batch: 1716277

Lab Source ID: SC39093-03

Preparation: SW846 3005A

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-GZ-103-091117

% Solids:

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/l)	Sample Result (SR) (mg/l)	Spike Added (SA) (mg/l)	%R	Method
Iron	80 - 120	50.4	45.9	2.50	182 *	SW846 6010C
Sodium	80 - 120	19.6	7.14	12.5	100	SW846 6010C
Aluminum	80 - 120	2.68	BRL	2.50	107	SW846 6010C
Calcium	80 - 120	43.6	29.0	12.5	117	SW846 6010C
Magnesium	80 - 120	6.44	3.66	2.50	111	SW846 6010C

\* Values outside of QC limits

**FORM Vb - POST DIGEST SPIKE SAMPLE RECOVERY**

TF1-GZ-103-091117

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1716530-PS1

Batch: 1716530

Lab Source ID: SC39093-03

Preparation: SW846 3005A

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-GZ-103-091117

% Solids:

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/l)	Sample Result (SR) (mg/l)	Spike Added (SA) (mg/l)	%R	Method
Potassium	80 - 120	28.6	3.40	25.0	101	SW846 6010C

\* Values outside of QC limits



**FORM IIIc - DUPLICATES**

**TF1-GZ-103-091117**

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1716277-DUP1

Batch: 1716277

Lab Source ID: SC39093-03

Preparation: SW846 3005A

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-GZ-103-091117

% Solids:

File ID: 20170926-048

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Iron	20	45.9		45.5		0.9		SW846 6010C
Sodium	20	7.14		7.12		0.2		SW846 6010C
Aluminum	20	BRL		BDL				SW846 6010C
Calcium	20	29.0		28.8		0.9		SW846 6010C
Magnesium	20	3.66		3.66		0.08		SW846 6010C

\* Values outside of QC limits

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

**FORM IIIc - DUPLICATES****TF1-GZ-103-091117****SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportMatrix: AqueousLaboratory ID: 1716530-DUP1Batch: 1716530Lab Source ID: SC39093-03Preparation: SW846 3005AInitial/Final: 50 ml / 50 mlSource Sample Name: TF1-GZ-103-091117

% Solids:

File ID: 20170929-048

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Potassium	20	3.40		3.36		0.9		SW846 6010C

\* Values outside of QC limits

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

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 6010C**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>ICAP5</u>
Batch: <u>1716277</u>	Laboratory ID: <u>1716277-BS1</u>
Preparation: <u>SW846 3005A</u>	Initial/Final: <u>50 ml / 50 ml</u>
Analyzed: <u>09/26/17 15:26</u>	Spike ID: <u>17H1034</u>
	File ID: <u>20170926-042</u>

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Iron	2.50	2.59	104	87 - 115
Sodium	12.5	11.7	94	87 - 115
Aluminum	2.50	2.54	102	86 - 115
Calcium	12.5	12.2	97	87 - 113
Magnesium	2.50	2.42	97	85 - 113

File ID: 20170926-043

COMPOUND	SPIKE ADDED (mg/l)	LCSD CONCENTRATION (mg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Iron	2.50	2.63	105	1	20	87 - 115
Sodium	12.5	11.7	93	0.3	20	87 - 115
Aluminum	2.50	2.54	102	0.2	20	86 - 115
Calcium	12.5	12.2	98	0.2	20	87 - 113
Magnesium	2.50	2.43	97	0.5	20	85 - 113

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

\* Values outside of QC limits

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

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 6010C

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>ICAP5</u>
Batch: <u>1716530</u>	Laboratory ID: <u>1716530-BS1</u>
Preparation: <u>SW846 3005A</u>	Initial/Final: <u>50 ml / 50 ml</u>
Analyzed: <u>09/29/17 15:20</u>	Spike ID: <u>17H1034</u>
	File ID: <u>20170929-042</u>

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Potassium	25.0	24.2	97	86 - 114

File ID: 20170929-043

COMPOUND	SPIKE ADDED (mg/l)	LCSD CONCENTRATION (mg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Potassium	25.0	23.2	93	4	20	86 - 114

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

\* Values outside of QC limits

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

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

**TF1-GZ-103-091117**

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Matrix: Aqueous  
 Batch: 1716277  
 Preparation: SW846 3005A  
 Source Sample Name: TF1-GZ-103-091117

SDG: SC39093  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: ICAP5  
 Laboratory ID: 1716277-MS1  
 Initial/Final: 50 ml / 50 ml  
 % Solids:  
 Spike ID: 17H1034  
 File ID: 20170926-049

Sample result greater than 4X spike added.  
 No qualification.

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Iron	2.50	45.9	48.0	83 *	87 - 115
Sodium	12.5	7.14	19.2	97	87 - 115
Aluminum	2.50	BRL	2.62	105	86 - 115
Calcium	12.5	29.0	41.0	95	87 - 113
Magnesium	2.50	3.66	6.18	101	85 - 113

File ID: 20170926-050

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Iron	2.50	47.3	59 *	1	20	87 - 115
Sodium	12.5	19.0	95	1	20	87 - 115
Aluminum	2.50	2.61	104	0.2	20	86 - 115
Calcium	12.5	41.2	98	0.7	20	87 - 113
Magnesium	2.50	6.08	97	2	20	85 - 113

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

\* Values outside of QC limits

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

<b>TF1-GZ-103-091117</b>
--------------------------

**SW846 6010C**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>ICAP5</u>
Batch: <u>1716530</u>	Laboratory ID: <u>1716530-MS1</u>
Preparation: <u>SW846 3005A</u>	Initial/Final: <u>50 ml / 50 ml</u>
Source Sample Name: <u>TF1-GZ-103-091117</u>	% Solids:
	Spike ID: <u>17H1034</u>
	File ID: <u>20170929-049</u>

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Potassium	25.0	3.40	28.0	98	86 - 114

File ID: 20170929-050

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Potassium	25.0	28.8	101	3	20	86 - 114

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

\* Values outside of QC limits

# FORM VIII - SERIAL DILUTION

**SW846 6010C**

TF1-GZ-103-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Laboratory ID: S708828-SRD2

Lab Source ID: SC39093-03

Sequence: S708828

Initial/Final: 50 / 50

Preparation: 1716317

Source Sample Name: TF1-GZ-103-091117

% Solids:

Units: mg/l

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Iron	45.9		48.2		5		SW846 6010C	10
Sodium	7.14		7.24		2		SW846 6010C	10
Aluminum	BRL		BRL				SW846 6010C	10
Calcium	29.0		30.6		5		SW846 6010C	10
Magnesium	3.66		3.82		4		SW846 6010C	10

\* Values outside of QC limits

# FORM VIII - SERIAL DILUTION

**SW846 6010C**

TF1-GZ-103-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Laboratory ID: S710438-SRD1

Sequence: S710438

Lab Source ID: SC39093-03

Preparation: 1716544

Initial/Final: 50 / 50

Source Sample Name: TF1-GZ-103-091117

% Solids:

Units: mg/l

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Potassium	3.40		3.02				SW846 6010C	10

\* Values outside of QC limits



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

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Iron	0.0089	0.0300	mg/l
	0.0089	0.0300	mg/l
Magnesium	0.0088	0.0200	mg/l
Potassium	0.120	1.00	mg/l
Sodium	10.8	25.0	mg/kg
	0.0785	0.500	mg/l
Aluminum	1.14	5.00	mg/kg
	0.0206	0.0500	mg/l
	0.0206	0.0500	mg/l
Calcium	5.12	25.0	mg/kg
	0.0142	0.200	mg/l
	0.0142	0.200	mg/l
Iron	2.06	4.00	mg/kg
Magnesium	1.44	5.00	mg/kg
	0.0088	0.0200	mg/l

# METALS ANALYSIS RUN LOG

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708796

Instrument: ICAP5

Calibration: 1710008

Sample Name	Lab ID	D/F	Time	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N		
Cal Standard	S708796-CAL1	1	09/26/17 11:39	X					X				X	X								X							
Cal Standard	S708796-CAL2	1	09/26/17 11:43	X					X				X	X								X							
Cal Standard	S708796-CAL3	1	09/26/17 11:47	X					X				X	X								X							
Cal Standard	S708796-CAL4	1	09/26/17 11:51	X					X				X	X								X							
Cal Standard	S708796-CAL5	1	09/26/17 11:54	X					X				X	X								X							
Cal Standard	S708796-CAL6	1	09/26/17 11:58	X					X				X	X								X							
Cal Standard	S708796-CAL7	1	09/26/17 12:02	X					X				X	X								X							
Cal Standard	S708796-CAL8	1	09/26/17 12:06	X					X				X	X								X							
Cal Standard	S708796-CAL9	1	09/26/17 12:11	X					X				X									X							
Initial Cal Check	S708796-ICV1	1	09/26/17 12:23	X					X				X	X								X							
Initial Cal Blank	S708796-ICB1	1	09/26/17 12:27	X					X				X	X								X							
Instrument RL Check	S708796-CRL1	1	09/26/17 12:33	X					X				X	X								X							
Instrument RL Check	S708796-CRL2	1	09/26/17 12:38	X					X				X	X								X							
Calibration Check	S708796-CCV1	1	09/26/17 12:53	X					X				X	X								X							
Calibration Blank	S708796-CCB1	1	09/26/17 12:58	X					X				X	X								X							
Initial Cal Check	S708796-ICV2	1	09/26/17 13:13										X																

# METALS ANALYSIS RUN LOG

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708828

Instrument: ICAP5

Calibration: 1710008

Sample Name	Lab ID	D/F	Time	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N		
Calibration Blank	S708828-CCB6	1	09/26/17 18:49	X					X				X	X								X							
Calibration Check	S708828-CCV7	1	09/26/17 20:34	X					X					X								X							
Calibration Blank	S708828-CCB7	1	09/26/17 20:39	X					X					X								X							
Instrument RL Check	S708828-CRL7	1	09/26/17 21:00	X					X					X								X							
Instrument RL Check	S708828-CRL8	1	09/26/17 21:05	X					X					X								X							
Interference Check A	S708828-IFA4	1	09/26/17 21:10	X					X				X	X								X							
Interference Check B	S708828-IFB4	1	09/26/17 21:15	X					X				X	X								X							
Calibration Check	S708828-CCV8	1	09/26/17 21:20	X					X					X								X							
Calibration Blank	S708828-CCB8	1	09/26/17 21:25	X					X					X								X							
Calibration Check	S708828-CCV9	1	09/26/17 22:21	X					X					X								X							
Calibration Blank	S708828-CCB9	1	09/26/17 22:26	X					X					X								X							
Instrument RL Check	S708828-CRL9	1	09/26/17 22:52	X					X					X								X							
Instrument RL Check	S708828-CRLA	1	09/26/17 22:57	X					X					X								X							
Interference Check A	S708828-IFA5	1	09/26/17 23:02	X					X				X	X								X							
Interference Check B	S708828-IFB5	1	09/26/17 23:07	X					X				X	X								X							
Calibration Check	S708828-CCVA	1	09/26/17 23:12	X					X					X								X							
Calibration Blank	S708828-CCBA	1	09/26/17 23:17	X					X					X								X							
Calibration Check	S708828-CCVB	1	09/27/17 00:13	X					X					X								X							
Calibration Blank	S708828-CCBB	1	09/27/17 00:18	X					X					X								X							
Instrument RL Check	S708828-CRLB	1	09/27/17 00:28	X					X					X								X							
Instrument RL Check	S708828-CRLC	1	09/27/17 00:34	X					X					X								X							
Interference Check A	S708828-IFA6	1	09/27/17 00:39	X					X				X	X								X							
Interference Check B	S708828-IFB6	1	09/27/17 00:44	X					X				X	X								X							
Calibration Check	S708828-CCVC	1	09/27/17 00:49	X					X					X								X							
Calibration Blank	S708828-CCBC	1	09/27/17 00:54	X					X					X								X							
Calibration Check	S708828-CCVD	1	09/27/17 01:50	X					X					X								X							
Calibration Blank	S708828-CCBD	1	09/27/17 01:55	X					X					X								X							
Instrument RL Check	S708828-CRLD	1	09/27/17 02:01	X					X					X								X							
Instrument RL Check	S708828-CRLE	1	09/27/17 02:06	X					X					X								X							
Interference Check A	S708828-IFA7	1	09/27/17 02:11	X					X				X	X								X							
Interference Check B	S708828-IFB7	1	09/27/17 02:16	X					X				X	X								X							

# METALS ANALYSIS RUN LOG

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708828

Instrument: ICAP5

Calibration: 1710008

Sample Name	Lab ID	D/F	Time	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N		
Calibration Check	S708828-CCV1	1	09/26/17 14:20	X					X			X	X									X							
Calibration Blank	S708828-CCB1	1	09/26/17 14:25	X					X			X	X									X							
Instrument RL Check	S708828-CRL1	1	09/26/17 14:50	X					X			X	X									X							
Instrument RL Check	S708828-CRL2	1	09/26/17 14:55	X					X			X	X									X							
Interference Check A	S708828-IFA1	1	09/26/17 15:00	X					X			X	X									X							
Interference Check B	S708828-IFB1	1	09/26/17 15:06	X					X			X	X									X							
Calibration Check	S708828-CCV2	1	09/26/17 15:11	X					X			X	X									X							
Calibration Blank	S708828-CCB2	1	09/26/17 15:16	X					X			X	X									X							
Blank	1716277-BLK1	1	09/26/17 15:21	X					X			X	X									X							
LCS	1716277-BS1	1	09/26/17 15:26	X					X			X	X									X							
LCS Dup	1716277-BSD1	1	09/26/17 15:31	X					X			X	X									X							
TF1-GT-121-091117	SC39093-01	1	09/26/17 15:36	X					X			X	X									X							
TF1-GT-119-091117	SC39093-02	1	09/26/17 15:41	X					X			X	X									X							
TF1-GZ-103-091117	S708828-SRD2	5	09/26/17 15:46	X					X			X	X									X							
TF1-GZ-103-091117	SC39093-03	1	09/26/17 15:51	X					X			X	X									X							
TF1-GZ-103-091117	1716277-DUP1	1	09/26/17 15:56	X					X			X	X									X							
TF1-GZ-103-091117	1716277-MS1	1	09/26/17 16:01	X					X			X	X									X							
TF1-GZ-103-091117	1716277-MSD1	1	09/26/17 16:06	X					X			X	X									X							
Calibration Check	S708828-CCV3	1	09/26/17 16:11	X					X			X	X									X							
Calibration Blank	S708828-CCB3	1	09/26/17 16:16	X					X			X	X									X							
TF1-GZ-103-091117	1716277-PS1	1	09/26/17 16:21	X					X			X	X									X							
Instrument RL Check	S708828-CRL3	1	09/26/17 16:26	X					X			X	X									X							
Instrument RL Check	S708828-CRL4	1	09/26/17 16:32	X					X			X	X									X							
Interference Check A	S708828-IFA2	1	09/26/17 16:37	X					X			X	X									X							
Interference Check B	S708828-IFB2	1	09/26/17 16:42	X					X			X	X									X							
Calibration Check	S708828-CCV4	1	09/26/17 16:47	X					X			X	X									X							
Calibration Blank	S708828-CCB4	1	09/26/17 16:52	X					X			X	X									X							
Calibration Check	S708828-CCV5	1	09/26/17 17:48	X					X			X	X									X							
Calibration Blank	S708828-CCB5	1	09/26/17 17:53	X					X			X	X									X							
Instrument RL Check	S708828-CRL5	1	09/26/17 18:24	X					X			X	X									X							
Instrument RL Check	S708828-CRL6	1	09/26/17 18:29	X					X			X	X									X							
Interference Check A	S708828-IFA3	1	09/26/17 18:34	X					X			X	X									X							
Interference Check B	S708828-IFB3	1	09/26/17 18:39	X					X			X	X									X							
Calibration Check	S708828-CCV6	1	09/26/17 18:44	X					X			X	X									X							

# METALS ANALYSIS RUN LOG

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710437

Instrument: ICAP5

Calibration: 1711058

Sample Name	Lab ID	D/F	Time	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N		
Cal Standard	S710437-CAL1	1	09/29/17 11:29																	X									
Cal Standard	S710437-CAL2	1	09/29/17 11:33																	X									
Cal Standard	S710437-CAL3	1	09/29/17 11:37										X							X									
Cal Standard	S710437-CAL4	1	09/29/17 11:41										X							X									
Cal Standard	S710437-CAL5	1	09/29/17 11:45										X							X									
Cal Standard	S710437-CAL6	1	09/29/17 11:49										X							X									
Cal Standard	S710437-CAL7	1	09/29/17 11:53										X							X									
Cal Standard	S710437-CAL8	1	09/29/17 11:57										X							X									
Cal Standard	S710437-CAL9	1	09/29/17 12:02																	X									
Cal Standard	S710437-CAL9	1	09/29/17 12:12										X																
Cal Standard	S710437-CAL1	1	09/29/17 12:23										X																
Cal Standard	S710437-CAL2	1	09/29/17 12:36										X																
Initial Cal Check	S710437-ICV1	1	09/29/17 12:44										X							X									
Initial Cal Blank	S710437-ICB1	1	09/29/17 12:49										X							X									
Instrument RL Check	S710437-CRL1	1	09/29/17 12:54										X							X									
Instrument RL Check	S710437-CRL2	1	09/29/17 12:59										X							X									
Calibration Check	S710437-CCV1	1	09/29/17 13:14										X							X									
Calibration Blank	S710437-CCB1	1	09/29/17 13:19										X							X									
Initial Cal Check	S710437-ICV2	1	09/29/17 13:28										X																

# METALS ANALYSIS RUN LOG

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710438

Instrument: ICAP5

Calibration: 1711058

Sample Name	Lab ID	D/F	Time	Analytes																																				
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N													
Calibration Blank	S710438-CCB7	1	09/29/17 20:23																	X							X													
Calibration Check	S710438-CCV8	1	09/29/17 21:18																	X								X												
Calibration Blank	S710438-CCB8	1	09/29/17 21:23																	X								X												
Instrument RL Check	S710438-CRL5	1	09/29/17 21:29																	X								X												
Instrument RL Check	S710438-CRL6	1	09/29/17 21:34																	X								X												
Interference Check A	S710438-IFA4	1	09/29/17 21:39	X						X										X		X					X													
Interference Check B	S710438-IFB4	1	09/29/17 21:44	X						X										X		X					X													

# METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710438

Instrument: ICAP5

Calibration: 1711058

Sample Name	Lab ID	D/F	Time	Analytes																							
				A	S	A	B	B	C	C	C	C	C	F	P	M	M	H	N	K	S	A	N	S	T	V	Z
				L	B	S	A	E	D	A	O	R	U	E	B	G	N	G	I		E	G	A	U	L	N	
Calibration Check	S710438-CCV1	1	09/29/17 15:05												X						X						
Calibration Blank	S710438-CCB1	1	09/29/17 15:10												X						X						
Blank	1716530-BLK1	1	09/29/17 15:15																		X						
LCS	1716530-BS1	1	09/29/17 15:20																		X						
LCS Dup	1716530-BSD1	1	09/29/17 15:25																		X						
TF1-GT-121-091117	SC39093-01	1	09/29/17 15:30																		X						
TF1-GT-119-091117	SC39093-02	1	09/29/17 15:35																		X						
TF1-GZ-103-091117	S710438-SRD1	5	09/29/17 15:40																		X						
TF1-GZ-103-091117	SC39093-03	1	09/29/17 15:45																		X						
TF1-GZ-103-091117	1716530-DUP1	1	09/29/17 15:50																		X						
TF1-GZ-103-091117	1716530-MS1	1	09/29/17 15:55																		X						
TF1-GZ-103-091117	1716530-MSD1	1	09/29/17 16:00																		X						
Calibration Check	S710438-CCV2	1	09/29/17 16:05												X						X						
Calibration Blank	S710438-CCB2	1	09/29/17 16:10												X						X						
TF1-GZ-103-091117	1716530-PS1	1	09/29/17 16:15																		X						
Instrument RL Check	S710438-CRL1	1	09/29/17 16:20												X						X						
Interference Check A	S710438-IFA1	1	09/29/17 16:25	X						X					X		X				X						
Interference Check B	S710438-IFB1	1	09/29/17 16:31	X						X					X		X				X						
Calibration Check	S710438-CCV3	1	09/29/17 16:36												X						X						
Calibration Blank	S710438-CCB3	1	09/29/17 16:41												X						X						
Calibration Check	S710438-CCV4	1	09/29/17 17:36												X						X						
Calibration Blank	S710438-CCB4	1	09/29/17 17:41												X						X						
Instrument RL Check	S710438-CRL2	1	09/29/17 18:11												X						X						
Interference Check A	S710438-IFA2	1	09/29/17 18:16	X						X					X		X				X						
Interference Check B	S710438-IFB2	1	09/29/17 18:21	X						X					X		X				X						
Calibration Check	S710438-CCV5	1	09/29/17 18:27												X						X						
Calibration Blank	S710438-CCB5	1	09/29/17 18:32												X						X						
Calibration Check	S710438-CCV6	1	09/29/17 19:27												X						X						
Calibration Blank	S710438-CCB6	1	09/29/17 19:32												X						X						
Instrument RL Check	S710438-CRL3	1	09/29/17 19:57												X						X						
Instrument RL Check	S710438-CRL4	1	09/29/17 20:03												X						X						
Interference Check A	S710438-IFA3	1	09/29/17 20:08	X						X					X		X				X						
Interference Check B	S710438-IFB3	1	09/29/17 20:13	X						X					X		X				X						
Calibration Check	S710438-CCV7	1	09/29/17 20:18												X						X						

# CROSS REFERENCE TABLE

## EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

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<b>Client Sample ID:</b>	<b>Lab Sample ID:</b>
<u>TF1-GT-121-091117</u>	<u>SC39093-01</u>
<u>TF1-GT-119-091117</u>	<u>SC39093-02</u>
<u>TF1-GZ-103-091117</u>	<u>SC39093-03</u>



## CASE NARRATIVE

**Spectrum Analytical, Inc. Lab Reference No. SC39093**

**Client: Tetra Tech, Inc. - Salem, NH**

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

**SDG #: SC39093**

### I. RECEIPT

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

### II. HOLDING TIMES

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

### III. METHODS

Analyses were performed according to EPA 245.1/7470A.

### IV. PREPARATION

Aqueous samples were prepared according to EPA200/SW7000 Series.

### V. INSTRUMENTATION

The following equipment was used to analyze EPA 245.1/7470A:

Mercury4 details: Leeman Labs Hydra IIAA Mercury Analyzer

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Spikes:

##### 1. Laboratory Control Samples (LCS):

All method criteria were met.

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

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1716279 from source sample TF1-GT-121-091117 (SC39093-01).

All method criteria were met.

**3. Post Spike Samples (PS):**

A post spike was analyzed.

In batch 1716279 from source sample TF1-GT-121-091117 (SC39093-01).

All method criteria were met.

**D. Duplicates:**

A duplicate was analyzed.

In batch 1716279 from source sample TF1-GT-121-091117 (SC39093-01).

All method criteria were met.

**E. Samples:**

All method criteria were met.

**FORM III - BLANKS**

**EPA 245.1/7470A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: Mercury4

Calibration: 1711054

Sequence: S710400

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
S710400-ICB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710400-CCB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A

**FORM III - BLANKS****EPA 245.1/7470A**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: Mercury4Calibration: 1711054Sequence: S710401

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
S710401-CCB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710401-CCB2	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710401-CCB3	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
1716279-BLK1	Mercury	BRL	0.00020	mg/l	U	EPA 245.1/7470A
S710401-CCB4	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710401-CCB5	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710401-CCB6	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A

# FORM Vb - POST DIGEST SPIKE SAMPLE RECOVERY

EPA 245.1/7470A

TF1-GT-121-091117

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1716279-PS1

Batch: 1716279

Lab Source ID: SC39093-01

Preparation: EPA200/SW7000 Series

Initial/Final: 20 ml / 20 ml

Source Sample Name: TF1-GT-121-091117

% Solids:

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/l)	Sample Result (SR) (mg/l)	Spike Added (SA) (mg/l)	%R	Method
Mercury	85 - 115	0.00515	BRL	0.00500	103	EPA 245.1/7470A

\* Values outside of QC limits

**FORM IIIc - DUPLICATES**

**TF1-GT-121-091117**

**EPA 245.1/7470A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1716279-DUP1

Batch: 1716279

Lab Source ID: SC39093-01

Preparation: EPA200/SW7000 Series

Initial/Final: 20 ml / 20 ml

Source Sample Name: TF1-GT-121-091117

% Solids:

File ID: 092517A-067

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Mercury	20	BRL		BDL				EPA 245.1/7470A

\* Values outside of QC limits

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

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**

**EPA 245.1/7470A**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Mercury4
Batch:	<u>1716279</u>	Laboratory ID:	<u>1716279-BS1</u>
Preparation:	<u>EPA200/SW7000 Series</u>	Initial/Final:	<u>20 ml / 20 ml</u>
Analyzed:	<u>09/25/17 15:24</u>	Spike ID:	17I0655
		File ID:	<u>092517A-065</u>

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Mercury	0.00500	0.00480	96	82 - 119

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

\* Values outside of QC limits

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

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

<b>TF1-GT-121-091117</b>
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**EPA 245.1/7470A**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>Mercury4</u>
Batch: <u>1716279</u>	Laboratory ID: <u>1716279-MS1</u>
Preparation: <u>EPA200/SW7000 Series</u>	Initial/Final: <u>20 ml / 20 ml</u>
Source Sample Name: <u>TF1-GT-121-091117</u>	% Solids:
	Spike ID: <u>1710655</u>
	File ID: <u>092517A-068</u>

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Mercury	0.00500	BRL	0.00485	97	82 - 119

File ID: 092517A-069

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Mercury	0.00500	0.00497	99	3	20	82 - 119

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

\* Values outside of QC limits



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

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Mercury	0.00013	0.00020	mg/l

# METALS ANALYSIS RUN LOG

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710400

Instrument: Mercury4

Calibration: 1711054

Sample Name	Lab ID	D/F	Time	Analytes																																	
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N										
Cal Standard	S710400-CAL1	1	09/25/17 12:57																								X										
Cal Standard	S710400-CAL2	1	09/25/17 12:59																									X									
Cal Standard	S710400-CAL3	1	09/25/17 13:01																									X									
Cal Standard	S710400-CAL4	1	09/25/17 13:03																									X									
Cal Standard	S710400-CAL5	1	09/25/17 13:05																									X									
Cal Standard	S710400-CAL6	1	09/25/17 13:07																									X									
Cal Standard	S710400-CAL7	1	09/25/17 13:09																									X									
Cal Standard	S710400-CAL8	1	09/25/17 13:11																									X									
Initial Cal Check	S710400-ICV1	1	09/25/17 13:15																									X									
Initial Cal Blank	S710400-ICB1	1	09/25/17 13:17																										X								
Instrument RL Check	S710400-CRL1	1	09/25/17 13:20																										X								
Calibration Check	S710400-CCV1	1	09/25/17 13:23																										X								
Calibration Blank	S710400-CCB1	1	09/25/17 13:25																										X								

# METALS ANALYSIS RUN LOG

**EPA 245.1/7470A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710401

Instrument: Mercury4

Calibration: 1711054

Sample Name	Lab ID	D/F	Time	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N		
Calibration Check	S710401-CCV1	1	09/25/17 14:16																								X		
Calibration Blank	S710401-CCB1	1	09/25/17 14:18																								X		
Instrument RL Check	S710401-CRL1	1	09/25/17 14:20																							X			
Calibration Check	S710401-CCV2	1	09/25/17 14:43																							X			
Calibration Blank	S710401-CCB2	1	09/25/17 14:45																							X			
Instrument RL Check	S710401-CRL2	1	09/25/17 15:01																						X				
Calibration Check	S710401-CCV3	1	09/25/17 15:03																						X				
Calibration Blank	S710401-CCB3	1	09/25/17 15:05																						X				
Instrument RL Check	S710401-CRL3	1	09/25/17 15:14																						X				
Blank	1716279-BLK1	1	09/25/17 15:22																						X				
LCS	1716279-BS1	1	09/25/17 15:24																						X				
TF1-GT-121-091117	SC39093-01	1	09/25/17 15:26																						X				
TF1-GT-121-091117	1716279-DUP1	1	09/25/17 15:28																						X				
TF1-GT-121-091117	1716279-MS1	1	09/25/17 15:30																						X				
TF1-GT-121-091117	1716279-MSD1	1	09/25/17 15:32																						X				
TF1-GT-121-091117	1716279-PS1	1	09/25/17 15:34																						X				
TF1-GT-119-091117	SC39093-02	1	09/25/17 15:36																						X				
TF1-GZ-103-091117	SC39093-03	1	09/25/17 15:39																						X				
Instrument RL Check	S710401-CRL4	1	09/25/17 15:41																						X				
Calibration Check	S710401-CCV4	1	09/25/17 15:43																						X				
Calibration Blank	S710401-CCB4	1	09/25/17 15:45																						X				
Calibration Check	S710401-CCV5	1	09/25/17 16:07																						X				
Calibration Blank	S710401-CCB5	1	09/25/17 16:09																						X				
Instrument RL Check	S710401-CRL5	1	09/25/17 16:17																						X				
Calibration Check	S710401-CCV6	1	09/25/17 16:19																						X				
Calibration Blank	S710401-CCB6	1	09/25/17 16:21																						X				

SDG No.: SAI24

Matrix: WATER

<u>Analyte</u>	<u>Batch Number</u>	<u>Lab Sample ID</u>
Antimony	172771063902	*40345BKG
Arsenic		9240358
Barium		9240359
Beryllium		9240360
Cadmium		P27763BB
Chromium		P27763BQ
Cobalt		
Copper		
Lead		
Manganese		
Molybdenum		
Nickel		
Selenium		
Silver		
Thallium		
Vanadium		
Zinc		

**LEGEND:**

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

## Case Narrative/Conformance Summary

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: SAI24**

### ICP Metals

Fraction: Metals in Liquid

Sample #	Client ID	Matrix		DF	Comments
		Liquid	Solid		
9240358	SC39093-01	X		1	
9240359	SC39093-02	X		1	
9240360	SC39093-03	X		1	

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

#### SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

#### HOLDING TIME:

All holding times were met.

#### PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

#### CALIBRATION/STANDARDIZATION:

All criteria were met.

#### QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

##### MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

#### SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

The instrument detection limits (IDLs) are used for determining the U flags on the initial and continuing calibration blanks. The highest IDL is selected when multiple instruments are used for an analysis. The method detection limits (MDLs) are used for determining all other U flags.



Method: MS  
Run Name: 1728411E05  
Calibration Date(s): 10/11/2017  
Preparation Blank Matrix: WATER

Analyte	Mass	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (UG/L)			
			C	1	C	2	C	3	C	Mass		C	Batch Number
Antimony	121	0.35	U	0.35	U	0.35	U	0.35	U	121	0.450	U	172771063902A
Arsenic	75	0.60	U	0.60	U	0.60	U	0.60	U	75	0.720	U	172771063902A
Barium	137	0.43	U	0.43	U	0.43	U			137	0.720	U	172771063902A
Beryllium	9	0.054	U	0.054	U	0.054	U	0.054	U	9	0.071	U	172771063902A
Cadmium	111	0.15	U	0.15	U	0.15	U	0.15	U	111	0.150	U	172771063902A
Chromium	52	0.50	U	0.50	U	0.50	U	0.50	U	52	0.870	U	172771063902A
Cobalt	59	0.17	U	0.17	U	0.17	U	0.17	U	59	0.160	U	172771063902A
Copper	63	0.40	U	0.40	U	0.40	U	0.40	U	63	0.540	U	172771063902A
Lead	208	0.088	U	0.088	U	0.088	U	0.088	U	208	0.110	U	172771063902A
Manganese	55	0.90	U	0.90	U	0.90	U	0.90	U	55	0.900	U	172771063902A
Molybdenum	98	0.25	U	0.25	U	0.25	U	0.25	U	98	0.250	U	172771063902A
Nickel	60	0.61	U	0.61	U	0.61	U	0.61	U	60	1.000	U	172771063902A
Selenium	78	0.50	U	0.50	U	0.50	U	0.50	U	78	0.500	U	172771063902A
Silver	107	0.12	U	0.12	U	0.12	U	0.12	U	107	0.150	U	172771063902A
Thallium	203	0.12	U	0.12	U	0.12	U	0.12	U	203	0.120	U	172771063902A
Vanadium	51	0.17	U	0.17	U	0.17	U	0.17	U	51	0.210	U	172771063902A
Zinc	66	2.6	U	2.6	U	2.6	U	2.6	U	66	3.900	U	172771063902A

METHODS:

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry  
CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:

U= Below IDL/MDL  
B= Below LOQ



Method: MS  
Run Name: 1728503E05  
Calibration Date(s): 10/12/2017

Analyte	Mass	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (UG/L)		
		C		1	C	2	C	3	C	Mass	C	Batch Number
Antimony												
Arsenic												
Barium	137	0.43	U	0.43	U	0.43	U	0.43	U			
Beryllium												
Cadmium												
Chromium												
Cobalt												
Copper												
Lead												
Manganese												
Molybdenum												
Nickel												
Selenium												
Silver												
Thallium												
Vanadium												
Zinc												

<p><b>METHODS:</b>  P = ICP Atomic Emission Spectrometer  MS = ICP Mass Spectrometry  CV = Cold Vapor  AF = Cold Vapor Atomic Fluorescence</p>	<p><b>CONCENTRATION QUALIFIERS:</b>  U= Below IDL/MDL  B= Below LOQ</p>
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Instrument ID: 19204  
Run Name: 1728411E05  
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	100000	100000	92236	92.2	92596.6	92.6
Antimony	121	0	0	1		1.3	
Arsenic	75	0	100	0		98.6	98.6
Barium	137	0	0	1		1.0	
Beryllium	9	0	0	0		0.0	
Cadmium	111	0	100	0		92.7	92.7
Calcium	44	300000	300000	254787	84.9	257876.9	86.0
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium	52	0	200	1		189.0	94.5
Cobalt	59	0	205	1		188.2	91.8
Copper	63	0	200	1		189.1	94.6
Iron	57	250000	250000	218986	87.6	216631.7	86.7
Lead	208	0	0	0		0.2	
Magnesium	24	100000	100000	91465	91.5	92541.4	92.5
Manganese	55	0	200	3		193.2	96.6
Molybdenum	98	2000	2000	1980	99.0	1940.1	97.0
Nickel	60	0	200	1		187.6	93.8
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	100000	100000	94673	94.7	94710.0	94.7
Selenium	78	0	100	0		92.4	92.4
Silver	107	0	50	0		47.7	95.4
Sodium	23	250000	250000	231932	92.8	234810.0	93.9
Sulfur	34	10000	10000	NA		NA	
Thallium	203	0	0	0		0.1	
Titanium	47	2000	2000	1976	98.8	1987.1	99.4
Vanadium	51	0	200	0		192.9	96.5
Zinc	66	0	100	2		92.0	92.0

Control Limits: All Metals 80%-120%



Instrument ID: 19204  
Run Name: 1728503E05  
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	100000	100000	99008	99.0	97273.3	97.3
Antimony							
Arsenic							
Barium	137	0	0	1		1.1	
Beryllium							
Cadmium							
Calcium	44	300000	300000	298152	99.4	290643.5	96.9
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium							
Cobalt							
Copper							
Iron	57	250000	250000	228727	91.5	225666.5	90.3
Lead							
Magnesium	24	100000	100000	96127	96.1	94889.2	94.9
Manganese							
Molybdenum	98	2000	2000	1911	95.6	1978.2	98.9
Nickel							
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	100000	100000	98618	98.6	96797.3	96.8
Selenium							
Silver							
Sodium	23	250000	250000	240929	96.4	237819.4	95.1
Sulfur	34	10000	10000	NA		NA	
Thallium							
Titanium	47	2000	2000	1984	99.2	1989.3	99.5
Vanadium							
Zinc							

Control Limits: All Metals 80%-120%



Analyte	Mass	Batch Number	Units	True	Found	C	Control Limits (%)	%R	M	In Spec
Antimony	121	172771063902	UG/L	6.000	5.634		85 - 117	94	MS	Yes
Arsenic	75	172771063902	UG/L	10.000	10.368		84 - 116	104	MS	Yes
Barium	137	172771063902	UG/L	50.000	49.804		86 - 114	100	MS	Yes
Beryllium	9	172771063902	UG/L	4.000	4.150		83 - 121	104	MS	Yes
Cadmium	111	172771063902	UG/L	5.000	5.149		87 - 115	103	MS	Yes
Chromium	52	172771063902	UG/L	50.000	50.542		85 - 116	101	MS	Yes
Cobalt	59	172771063902	UG/L	250.000	261.907		86 - 115	105	MS	Yes
Copper	63	172771063902	UG/L	50.000	53.752		85 - 118	108	MS	Yes
Lead	208	172771063902	UG/L	15.000	15.364		88 - 115	102	MS	Yes
Manganese	55	172771063902	UG/L	50.000	48.406		87 - 115	97	MS	Yes
Molybdenum	98	172771063902	UG/L	50.000	52.926		83 - 115	106	MS	Yes
Nickel	60	172771063902	UG/L	50.000	52.979		85 - 117	106	MS	Yes
Selenium	78	172771063902	UG/L	10.000	10.334		80 - 120	103	MS	Yes
Silver	107	172771063902	UG/L	50.000	52.532		85 - 116	105	MS	Yes
Thallium	203	172771063902	UG/L	2.000	1.969		82 - 116	98	MS	Yes
Vanadium	51	172771063902	UG/L	50.000	50.399		86 - 115	101	MS	Yes
Zinc	66	172771063902	UG/L	500.000	533.882		83 - 119	107	MS	Yes

**METHODS:**

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry  
CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence

**CONCENTRATION QUALIFIERS:**

U= Below MDL  
B= Below LOQ



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: SAI24

Matrix: WATER

Level (low/med): LOW

Background Lab Sample ID: \*40345BKG

Serial Dilution Lab Sample ID: \*40345L

Batch Number(s): 172771063902

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	0.4510	U	2.2550	U			MS
Arsenic	75	4.1700		4.3500	B	4		MS
Barium	137	8.9630		8.8850	B	1		MS
Beryllium	9	0.1680	B	0.3565	U	100		MS
Cadmium	111	0.1520	U	0.7600	U			MS
Chromium	52	0.8700	U	4.3500	U			MS
Cobalt	59	94.6980		99.3000		5		MS
Copper	63	0.5360	U	2.6800	U			MS
Lead	208	0.1110	U	0.5550	U			MS
Manganese	55	4338.8950		4270.6300		2		MS
Molybdenum	98	0.2500	U	1.2500	U			MS
Nickel	60	104.0960		112.2050		8		MS
Selenium	78	0.5000	U	2.5000	U			MS
Silver	107	0.1460	U	0.7300	U			MS
Thallium	203	0.1170	U	0.5850	U			MS
Vanadium	51	0.2130	U	1.0650	U			MS
Zinc	66	98.0500		95.1550	B	3		MS

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

U= Below MDL  
B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by  
Serial Dilution or Spiked Dilution

Method: MS  
Instrument ID: 19204  
Date: 07/2017

Analyte	MASS (amu)	Background	IDL (UG/L)
Antimony	121		0.35
Arsenic	75		0.60
Barium	137		0.43
Beryllium	9		0.054
Cadmium	111		0.15
Chromium	52		0.50
Cobalt	59		0.17
Copper	63		0.40
Lead	208		0.088
Manganese	55		0.90
Molybdenum	98		0.25
Nickel	60		0.61
Selenium	78		0.50
Silver	107		0.12
Thallium	203		0.12
Vanadium	51		0.17
Zinc	66		2.6

Comments:

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**METHODS:**

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry  
CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence



Method: MS  
Date: 06/2017

Analyte	Mass	Background	LOQ (UG/L)	MDL (UG/L)
Antimony	121		2.0	0.45
Arsenic	75		4.0	0.72
Barium	137		4.0	0.72
Beryllium	9		1.0	0.071
Cadmium	111		1.0	0.15
Chromium	52		4.0	0.87
Cobalt	59		1.0	0.16
Copper	63		4.0	0.54
Lead	208		2.0	0.11
Manganese	55		4.0	0.90
Molybdenum	98		1.0	0.25
Nickel	60		4.0	1.0
Selenium	78		4.0	0.50
Silver	107		1.0	0.15
Thallium	203		1.0	0.12
Vanadium	51		1.0	0.21
Zinc	66		30.0	3.9

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

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**METHODS:**

- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

Method: MS  
Batch Number: 172771063902

Lab Sample ID	Date	Initial Volume(ml)	Final Volume(ml)
9240358	10/08/2017	50.00	50
9240359	10/08/2017	50.00	50
9240360	10/08/2017	50.00	50
*40345BKG	10/08/2017	50.00	50
P27763BB	10/08/2017	50.00	50
P27763BQ	10/08/2017	1.00	1

**METHODS:**

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry  
CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence

**LEGEND:**

BKG = Background  
DUP = Duplicate  
MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
B = Blank  
Q = Laboratory Control Sample  
Y = Laboratory Control Sample Duplicate



Method: MS  
Instrument ID: 19204  
Run Name: 1728411E05

Run Start Date: 10/11/2017  
Run End Date: 10/11/2017

Lab Sample ID	D/F	Time	Analytes																											
			S B	A S	B A	B E	C D	C R	C O	C U	P B	M N	M O	N I	S E	A G	T L	V N	Z N											
S0	1.00	20:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S	1.00	20:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCS	1.00	20:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCS	1.00	20:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV	1.00	20:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB	1.00	20:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LLC	1.00	20:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA	1.00	20:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1.00	20:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	20:35																												
CCV	1.00	20:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1.00	20:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P27763BB	1.00	20:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P27763BQ	1.00	20:48	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
*40345BKG	1.00	20:51	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	20:54																												
ZZZZZZ	1.00	20:57																												
ZZZZZZ	1.00	21:00																												
ZZZZZZ	1.00	21:03																												
*40345L	5.00	21:06	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	21:10																												
ZZZZZZ	1.00	21:13																												
CCV	1.00	21:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1.00	21:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	21:22																												
ZZZZZZ	1.00	21:25																												
ZZZZZZ	1.00	21:28																												
9240358	1.00	21:31	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9240359	1.00	21:34	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9240360	1.00	21:37	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	21:41																												
ZZZZZZ	1.00	21:44																												
ZZZZZZ	1.00	21:47																												
ZZZZZZ	1.00	21:50																												
CCV	1.00	21:53	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1.00	21:56	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

<p><b>METHODS:</b></p> <p>P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry CV = Cold Vapor AF = Cold Vapor Atomic Fluorescence</p>	<p><b>LEGEND:</b></p> <p>BKG = Background DUP = Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate A = Post Digest Spike L = Serial Dilution B = Blank Q = Laboratory Control Sample Y = Laboratory Control Sample Duplicate</p>
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Method: MS  
Instrument ID: 19204  
Run Name: 1728503E05

Run Start Date: 10/12/2017  
Run End Date: 10/12/2017

Lab Sample ID	D/F	Time	Analytes																										
			S B	A S	B A	B E	C D	C R	C O	C U	P B	M N	M O	N I	S E	A G	T L	V N	Z N										
S0	1.00	04:17		X																									
S	1.00	04:19		X																									
CCS	1.00	04:21		X																									
CCS	1.00	04:23		X																									
ICV	1.00	04:25		X																									
ICB	1.00	04:26		X																									
LLC	1.00	04:28		X																									
ICSA	1.00	04:30		X																									
ICSAB	1.00	04:32		X																									
ZZZZZZ	1.00	04:34																											
CCV	1.00	04:36		X																									
CCB	1.00	04:37		X																									
P27763BQ	1.00	04:39		X																									
*40345BKG	1.00	04:41		X																									
ZZZZZZ	1.00	04:43																											
ZZZZZZ	1.00	04:45																											
ZZZZZZ	1.00	04:47																											
ZZZZZZ	1.00	04:48																											
*40345L	5.00	04:50		X																									
ZZZZZZ	1.00	04:52																											
ZZZZZZ	1.00	04:54																											
ZZZZZZ	1.00	04:56																											
CCV	1.00	04:58		X																									
CCB	1.00	05:00		X																									
ZZZZZZ	1.00	05:01																											
ZZZZZZ	1.00	05:03																											
ZZZZZZ	5.00	05:05																											
9240358	1.00	05:07		X																									
9240359	1.00	05:09		X																									
9240360	1.00	05:11		X																									
ZZZZZZ	1.00	05:12																											
ZZZZZZ	1.00	05:14																											
ZZZZZZ	1.00	05:16																											
ZZZZZZ	1.00	05:18																											
CCV	1.00	05:20		X																									
CCB	1.00	05:22		X																									

<p><b>METHODS:</b></p> <p>P = ICP Atomic Emission Spectrometer  MS = ICP Mass Spectrometry  CV = Cold Vapor  AF = Cold Vapor Atomic Fluorescence</p>	<p><b>LEGEND:</b></p> <p>BKG = Background  DUP = Duplicate  MS = Matrix Spike  MSD = Matrix Spike Duplicate  A = Post Digest Spike  L = Serial Dilution  B = Blank  Q = Laboratory Control Sample  Y = Laboratory Control Sample Duplicate</p>
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Instrument ID: 19204  
Run Name: 1728411E05

Start Date: 10/11/2017  
End Date: 10/11/2017

Standard	Elements Applies to	Standard	Elements Applies to
BI-2-209	PB, TL	IN-1-115	SE
IN-2-115	AG, AS, BA, CD, CO, CU, MO, NI, SB, ZN	SC-2-45	CR, MN, V
SC-3-45	BE		

Lab Sample ID	Time	Internal Standards %RI For:													
		Element SC-2-45	Q	Element SC-3-45	Q	Element IN-1-115	Q	Element IN-2-115	Q	Element BI-2-209	Q	Element	Q	Element	Q
S0	20:08	100		100		100		100		100					
S	20:11	94		101		97		97		95					
CCS	20:14	94		98		99		94		97					
CCS	20:17	96		97		97		98		98					
ICV	20:20	96		101		98		96		97					
ICB	20:23	95		97		97		96		97					
LLC	20:26	94		98		97		98		97					
ICSA	20:29	87		91		89		86		84					
ICSAB	20:32	88		92		89		89		84					
ZZZZZZ	20:35														
CCV	20:39	94		98		95		91		92					
CCB	20:42	95		97		95		94		92					
P27763BB	20:45	92		97		95		100		94					
P27763BQ	20:48	95		99		97		93		95					
*40345BKG	20:51	89		97		96		94		93					
ZZZZZZ	20:54														
ZZZZZZ	20:57														
ZZZZZZ	21:00														
ZZZZZZ	21:03														
*40345L	21:06	89		94		95		89		92					
ZZZZZZ	21:10														
ZZZZZZ	21:13														
CCV	21:16	91		96		95		93		92					
CCB	21:19	91		96		94		97		94					
ZZZZZZ	21:22														
ZZZZZZ	21:25														
ZZZZZZ	21:28														
9240358	21:31	92		96		94		92		94					
9240359	21:34	90		96		93		92		96					
9240360	21:37	89		96		94		90		92					
ZZZZZZ	21:41														

<p><b>LEGEND:</b>          BKG = Background      MS = Matrix Spike          DUP = Duplicate      MSD = Matrix Spike Duplicate          L = Serial Dilution    A = Post Digest Spike          B = Blank          Q = Laboratory Control Sample          Y = Laboratory Control Sample Duplicate</p> <p><b>FLAG:</b>          R = Internal Standard Relative Intensity OOS</p>	<p><b>INTERNAL STANDARD ELEMENTS:</b>          BE = Beryllium      LI = Lithium          BI = Bismuth      SC = Scandium          GE = Germanium      TB = Terbium          HO = Holmium      Y = Yttrium          IN = Indium</p>
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Instrument ID: 19204  
Run Name: 1728411E05

Start Date: 10/11/2017  
End Date: 10/11/2017

Standard	Elements Applies to	Standard	Elements Applies to
BI-2-209	PB, TL	IN-1-115	SE
IN-2-115	AG, AS, BA, CD, CO, CU, MO, NI, SB, ZN	SC-2-45	CR, MN, V
SC-3-45	BE		

Lab Sample ID	Time	Internal Standards %RI For:													
		Element SC-2-45	Q	Element SC-3-45	Q	Element IN-1-115	Q	Element IN-2-115	Q	Element BI-2-209	Q	Element	Q	Element	Q
ZZZZZZ	21:44														
ZZZZZZ	21:47														
ZZZZZZ	21:50														
CCV	21:53	88		94		94		91		94					
CCB	21:56	88		93		93		89		93					

<p><b>LEGEND:</b></p> <p>BKG = Background      MS = Matrix Spike          DUP = Duplicate      MSD = Matrix Spike Duplicate          L = Serial Dilution    A = Post Digest Spike          B = Blank          Q = Laboratory Control Sample          Y = Laboratory Control Sample Duplicate</p> <p><b>FLAG:</b></p> <p>R = Internal Standard Relative Intensity OOS</p>	<p><b>INTERNAL STANDARD ELEMENTS:</b></p> <p>BE = Beryllium      LI = Lithium          BI = Bismuth      SC = Scandium          GE = Germanium    TB = Terbium          HO = Holmium      Y = Yttrium          IN = Indium</p>
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Instrument ID: 19204  
Run Name: 1728503E05

Start Date: 10/12/2017  
End Date: 10/12/2017

Standard	Elements Applies to	Standard	Elements Applies to
IN-1-115	BA		

Lab Sample ID	Time	Internal Standards %RI For:											
		Element IN-1-115	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	04:17	100											
S	04:19	95											
CCS	04:21	99											
CCS	04:23	98											
ICV	04:25	97											
ICB	04:26	98											
LLC	04:28	103											
ICSA	04:30	92											
ICSAB	04:32	90											
ZZZZZZ	04:34												
CCV	04:36	101											
CCB	04:37	102											
P27763BQ	04:39	106											
*40345BKG	04:41	99											
ZZZZZZ	04:43												
ZZZZZZ	04:45												
ZZZZZZ	04:47												
ZZZZZZ	04:48												
*40345L	04:50	108											
ZZZZZZ	04:52												
ZZZZZZ	04:54												
ZZZZZZ	04:56												
CCV	04:58	109											
CCB	05:00	110											
ZZZZZZ	05:01												
ZZZZZZ	05:03												
ZZZZZZ	05:05												
9240358	05:07	111											
9240359	05:09	106											
9240360	05:11	110											
ZZZZZZ	05:12												

<p><b>LEGEND:</b></p> <p>BKG = Background      MS = Matrix Spike          DUP = Duplicate      MSD = Matrix Spike Duplicate          L = Serial Dilution    A = Post Digest Spike          B = Blank          Q = Laboratory Control Sample          Y = Laboratory Control Sample Duplicate</p> <p><b>FLAG:</b></p> <p>R = Internal Standard Relative Intensity OOS</p>	<p><b>INTERNAL STANDARD ELEMENTS:</b></p> <p>BE = Beryllium      LI = Lithium          BI = Bismuth      SC = Scandium          GE = Germanium      TB = Terbium          HO = Holmium      Y = Yttrium          IN = Indium</p>
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Instrument ID: 19204  
Run Name: 1728503E05

Start Date: 10/12/2017  
End Date: 10/12/2017

Standard	Elements Applies to	Standard	Elements Applies to
IN-1-115	BA		

Lab Sample ID	Time	Internal Standards %RI For:											
		Element IN-1-115	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	05:14												
ZZZZZZ	05:16												
ZZZZZZ	05:18												
CCV	05:20	114											
CCB	05:22	113											

<p><b>LEGEND:</b></p> <p>BKG = Background      MS = Matrix Spike          DUP = Duplicate      MSD = Matrix Spike Duplicate          L = Serial Dilution    A = Post Digest Spike          B = Blank          Q = Laboratory Control Sample          Y = Laboratory Control Sample Duplicate</p> <p><b>FLAG:</b></p> <p>R = Internal Standard Relative Intensity OOS</p>	<p><b>INTERNAL STANDARD ELEMENTS:</b></p> <p>BE = Beryllium      LI = Lithium          BI = Bismuth      SC = Scandium          GE = Germanium      TB = Terbium          HO = Holmium      Y = Yttrium          IN = Indium</p>
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# CROSS REFERENCE TABLE

## EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

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<b>Client Sample ID:</b>	<b>Lab Sample ID:</b>
<u>TF1-GT-121-091117</u>	<u>SC39093-01</u>
<u>TF1-GT-119-091117</u>	<u>SC39093-02</u>
<u>TF1-GZ-103-091117</u>	<u>SC39093-03</u>

## CASE NARRATIVE

**Spectrum Analytical, Inc. Lab Reference No. SC39093**

**Client: Tetra Tech, Inc. - Salem, NH**

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

**SDG #: SC39093**

### **I. RECEIPT**

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

### **II. HOLDING TIMES**

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

### **III. METHODS**

Analyses were performed according to EPA 300.0.

### **IV. PREPARATION**

Aqueous samples were prepared according to General Preparation.

### **V. INSTRUMENTATION**

The following equipment was used to analyze EPA 300.0:

IC3 details: Metrohm model 881 Compact Pro Ion Chromatograph

### **VI. ANALYSIS**

#### **A. Calibration:**

All quality control samples were within the acceptance criteria.

#### **B. Blanks:**

All blanks were within the acceptance criteria.

#### **C. Spikes:**

##### **1. Laboratory Control Samples (LCS):**

All method criteria were met.

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

No matrix spike or matrix spike duplicates were analyzed.

##### **3. Reference:**

All method criteria were met.

**D. Duplicates:**

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

**E. Samples:**

All method criteria were met.

**FORM III - BLANKS****EPA 300.0**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: IC3Calibration: 1710011Sequence: S708848

Matrix: Drinking Water

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
S708848-ICB1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.010	mg/l	U	EPA 300.0



**FORM III - BLANKS****EPA 300.0**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: IC3Calibration: 1710011Sequence: S709516Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715547-CCB1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1715547-CCB2	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	0.007	0.100	mg/l	J	EPA 300.0
1715547-CCB3	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1715547-BLK1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1715547-CCB4	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY****EPA 300.0**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Matrix: Aqueous    Instrument: IC3  
Batch: 1715547    Laboratory ID: 1715547-BS1  
Preparation: General Preparation    Initial/Final: 5 ml / 5 ml  
Analyzed: 09/12/17 19:42    Spike ID: 17I0114  
File ID: 091217-034

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Chloride	20.0	19.1	95	90 - 110
Sulfate as SO <sub>4</sub>	20.0	19.7	98	90 - 110
Nitrate as N	2.00	1.93	97	90 - 110

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

\* Values outside of QC limits

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

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

## EPA 300.0

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC39093

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 1710116

**Batch:** 1715547

**Laboratory ID:** 1715547-SRM1

**Preparation:** General Preparation

**Initial/Final:** 5 ml / 5 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Chloride	25.0	23.4	94	90 - 110
Sulfate as SO4	25.0	24.6	98	90 - 110
Nitrate as N	2.50	2.43	97	90 - 110

\* Values outside of QC limits

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

## EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Chloride	0.0994	1.00	mg/l
	0.0994	1.00	mg/l
Nitrate as N	0.007	0.010	mg/l
Sulfate as SO4	0.798	1.00	mg/l
	0.798	1.00	mg/l
Nitrate as N	0.007	0.100	mg/l

PREPARATION BENCH SHEET

1715547

Balance ID NIA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1715547-BLK1	Blank		QC	5	5					
1715547-BS1	LCS		QC	5	5	1710114				
1715547-CCB1	Calibration Blank		QC	5	5					
1715547-CCB2	Calibration Blank		QC	5	5					
1715547-CCB3	Calibration Blank		QC	5	5					
1715547-CCB4	Calibration Blank		QC	5	5					
1715547-CCV1	Calibration Check		QC	5	5	1710114				
1715547-CCV2	Calibration Check		QC	5	5	1710114				
1715547-CCV3	Calibration Check		QC	5	5	1710114				
1715547-CCV4	Calibration Check		QC	5	5	1710114				
1715547-DUP1	Duplicate		QC	5	5		SC39039-02			
1715547-MS1	Matrix Spike		QC	5	5	1710115	SC39039-02			T4, ICA1
1715547-MSD1	Matrix Spike Dup		QC	5	5	1710115	SC39039-02			T4, ICA1
1715547-SRM1	Reference		QC	5	5	1710116				
SC38976-01	RO Brine	B	wc-Sulfate - 30	5	5			18-Sep-17 16:00		T4, ICA1
SC39026-01	1710231-01	A	wc-Fluoride-30	5	5			18-Sep-17 15:00		CT RCP
SC39039-01	Influent	H	wc-Chloride-30	5	5			13-Sep-17 15:00		See attached for limits & compounds
SC39039-02	Effluent	G	wc-Chloride-30	5	5			13-Sep-17 15:00		See attached for limits & compounds
SC39039-02	Effluent	G	wc-Fluoride-30	5	5					BatchQC
SC39039-02	Effluent	G	wc-Nitrate 300	5	5					BatchQC
SC39039-02	Effluent	G	wc-Sulfate - 30	5	5					BatchQC
SC39045-04	GES-2D	H	wc-Sulfate - 30	5	5			20-Sep-17 16:00		Sunoco/Mass DEP Method-1/GW-1

UB 9/14/17  
Analyst Reviewed Date

Maged 9/14/17  
Manager Reviewed Date

Extracts Received By Date

**PREPARATION BENCH SHEET**

1715547

Balance ID \_\_\_\_\_

**Matrix: Aqueous**

**Prepared using: Wet Chem - General Preparation**

**(No Surrogate)**

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC39045-05	GES-4R	G	wc-Sulfate - 30	5	5			20-Sep-17 16:00		Sunoco/Mass DEP Method-1/GW-1
SC39045-07	MW-1	H	wc-Sulfate - 30	5	5			20-Sep-17 16:00		Sunoco/Mass DEP Method-1/GW-1
SC39093-01	TF1-GT-121-091117	N	wc-Chloride-30	5	5			21-Sep-17 16:00		DoD Level IV
SC39093-01	TF1-GT-121-091117	N	wc-Nitrate 300.	5	5			21-Sep-17 16:00		DoD Level IV
SC39093-01	TF1-GT-121-091117	N	wc-Sulfate - 30	5	5			21-Sep-17 16:00		DoD Level IV
SC39093-02	TF1-GT-119-091117	N	wc-Chloride-30	5	5			21-Sep-17 16:00		DoD Level IV
SC39093-02	TF1-GT-119-091117	N	wc-Nitrate 300.	5	5			21-Sep-17 16:00		DoD Level IV
SC39093-02	TF1-GT-119-091117	N	wc-Sulfate - 30	5	5			21-Sep-17 16:00		DoD Level IV
SC39093-03	TF1-GZ-103-091117	O	wc-Chloride-30	5	5			21-Sep-17 16:00		DoD Level IV
SC39093-03	TF1-GZ-103-091117	O	wc-Nitrate 300.	5	5			21-Sep-17 16:00		DoD Level IV
SC39093-03	TF1-GZ-103-091117	O	wc-Sulfate - 30	5	5			21-Sep-17 16:00		DoD Level IV

9/12/17 AQ ANIONS LNB

**Reagents Used:**

- 17A0456      IC3 column
- 17I0242      IC3 Eluent 090817

    LNB              9.14.17      
 Analyst Reviewed      Date

    [Signature]              9/14/17      
 Manager Reviewed      Date

\_\_\_\_\_  
 Extracts Received By      Date

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**EPA 300.0**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708848

Instrument: IC3

Calibration: 1710011

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S708848-CAL3	081717-012	08/17/17 14:13
Cal Standard	S708848-CAL2	081717-013	08/17/17 14:29
Cal Standard	S708848-CAL4	081717-014	08/17/17 14:45
Cal Standard	S708848-CAL5	081717-015	08/17/17 15:01
Cal Standard	S708848-CAL6	081717-016	08/17/17 15:16
Cal Standard	S708848-CAL7	081717-017	08/17/17 15:32
Cal Standard	S708848-CAL8	081717-018	08/17/17 15:48
Cal Standard	S708848-CAL1	081717-025	08/17/17 17:39
Initial Cal Check	S708848-ICV1	081717-026	08/17/17 17:55
Initial Cal Blank	S708848-ICB1	081717-027	08/17/17 18:11

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**EPA 300.0**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S709516

Instrument: IC3

Calibration: 1710011

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1715547-CCV1	091217-007	09/12/17 12:32
Calibration Blank	1715547-CCB1	091217-008	09/12/17 12:48
Calibration Check	1715547-CCV2	091217-019	09/12/17 15:43
Calibration Blank	1715547-CCB2	091217-020	09/12/17 15:59
Calibration Check	1715547-CCV3	091217-031	09/12/17 18:54
Calibration Blank	1715547-CCB3	091217-032	09/12/17 19:10
Blank	1715547-BLK1	091217-033	09/12/17 19:26
LCS	1715547-BS1	091217-034	09/12/17 19:42
Reference	1715547-SRM1	091217-035	09/12/17 19:58
TF1-GT-121-091117	SC39093-01	091217-038	09/12/17 20:46
TF1-GT-119-091117	SC39093-02	091217-039	09/12/17 21:02
TF1-GZ-103-091117	SC39093-03	091217-040	09/12/17 21:18
Calibration Check	1715547-CCV4	091217-043	09/12/17 22:06
Calibration Blank	1715547-CCB4	091217-044	09/12/17 22:22



# CROSS REFERENCE TABLE

## SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

---

**Client Sample ID:**

TF1-GT-121-091117

TF1-GT-119-091117

TF1-GZ-103-091117

**Lab Sample ID:**

SC39093-01

SC39093-02

SC39093-03

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39093

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39093

### I. RECEIPT

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

### II. HOLDING TIMES

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

### III. METHODS

Analyses were performed according to SM5310B (00, 11).

### IV. PREPARATION

Aqueous samples were prepared according to General Preparation.

### V. INSTRUMENTATION

The following equipment was used to analyze SM5310B (00, 11):

TOC4 details: Shimadzu TOC-L

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Spikes:

##### 1. Laboratory Control Samples (LCS):

All method criteria were met.

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

No matrix spike or matrix spike duplicates were analyzed.

##### 3. Reference:

All method criteria were met.

**D. Duplicates:**

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

**E. Samples:**

All method criteria were met.

**FORM III - BLANKS**  
**SM5310B (00, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: TOC4

Calibration: 1706085

Sequence: S705799

Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S705799-ICB1	Total Organic Carbon	0.3281	1.00	mg/l	J	SM5310B (00, 11)

**FORM III - BLANKS**  
**SM5310B (00, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: TOC4

Calibration: 1706085

Sequence: S708405

Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1716147-CCB1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1716147-BLK1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1716147-CCB2	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1716147-CCB3	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SM5310B (00, 11)

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: TOC4
Batch: <u>1716147</u>	Laboratory ID: <u>1716147-BS1</u>
Preparation: <u>General Preparation</u>	Initial/Final: <u>40 ml / 40 ml</u>
Analyzed: <u>09/20/17 17:25</u>	Spike ID: 17H0827
	File ID: <u>1716147-004</u>

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	15.0	13.2	88	85 - 115

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

\* Values outside of QC limits

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

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM5310B (00, 11)

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC39093

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 17H0608

**Batch:** 1716147

**Laboratory ID:** 1716147-SRM1

**Preparation:** General Preparation

**Initial/Final:** 40 ml / 40 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	14.6	13.4	92	88 - 112

\* Values outside of QC limits

**Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS**  
**SM5310B (00, 11)**

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC39093

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

<b>Analyte</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>
Total Organic Carbon	0.238	1.00	mg/l



PREPARATION BENCH SHEET

1716147

Sequence S708405

Balance ID MT

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1716147-BLK1	Blank		QC	40	40					
1716147-BS1	LCS		QC	40	40	17H0827				
1716147-CCB1	Calibration Blank		QC	40	40					
1716147-CCB2	Calibration Blank		QC	40	40					
1716147-CCB3	Calibration Blank		QC	40	40					
1716147-CCV1	Calibration Check		QC	40	40	17H0827				
1716147-CCV2	Calibration Check		QC	40	40	17H0827				
1716147-CCV3	Calibration Check		QC	40	40	17H0827				
1716147-DUP1	Duplicate		QC	40	40		SC39163-01			
1716147-MS1	Matrix Spike		QC	40	40	16E0251	SC39163-01			
1716147-MSD1	Matrix Spike Dup		QC	40	40	16E0251	SC39163-01			
1716147-SRM1	Reference		QC	40	40	17H0608				
SC39093-01	TF1-GT-121-091117	F	wc-TOC - water	40	40			21-Sep-17 16:00		DoD Level IV
SC39093-02	TF1-GT-119-091117	F	wc-TOC - water	40	40			21-Sep-17 16:00		DoD Level IV
SC39093-03	TF1-GZ-103-091117	F	wc-TOC - water	40	40			21-Sep-17 16:00		DoD Level IV
SC39163-01	TF1-GT-130-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		DoD Level IV
SC39163-02	TF1-GT-115-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		DoD Level IV
SC39163-03	TF1-GT-111-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		DoD Level IV
SC39163-04	TF1-GT-118-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		DoD Level IV
SC39163-05	TF1-DUP-03-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		DoD Level IV
SC39163-06	TF1-MW-1004-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		DoD Level IV
SC39163-07	TF1-GZ-106-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		DoD Level IV

ICU  
ICU  
PG

Agued - 9/22/17  
Analyst Reviewed Date

BD 9/22/17  
Manager Reviewed Date

Extracts Received By \_\_\_\_\_ Date \_\_\_\_\_

PREPARATION BENCH SHEET

1716147

Sequence S708405

Balance ID NA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
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toc9/20/17rlt  
VIAL LOT 7-080-001

Reagents Used:

17E0315 TOC WATER---1M HCL

[Signature] 9/22/17  
Analyst Reviewed Date

[Signature] 9/22/17  
Manager Reviewed Date

\_\_\_\_\_  
Extracts Received By Date

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SM5310B (00, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Sequence:	<u>S705799</u>	Instrument:	<u>TOC4</u>
		Calibration:	<u>1706085</u>

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S705799-CAL1	0-100 062217-012	06/21/17 13:22
Cal Standard	S705799-CAL2	0-100 062217-016	06/21/17 13:48
Cal Standard	S705799-CAL3	0-100 062217-020	06/21/17 14:10
Cal Standard	S705799-CAL4	0-100 062217-024	06/21/17 14:33
Cal Standard	S705799-CAL5	0-100 062217-028	06/21/17 14:55
Cal Standard	S705799-CAL6	0-100 062217-032	06/21/17 15:18
Cal Standard	S705799-CAL7	0-100 062217-036	06/21/17 15:41
Cal Standard	S705799-CAL8	0-100 062217-040	06/21/17 16:04
Initial Cal Check	S705799-ICV1	0-100 062217-044	06/21/17 16:26
Initial Cal Blank	S705799-ICB1	0-100 062217-048	06/21/17 16:43

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SM5310B (00, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708405

Instrument: TOC4

Calibration: 1706085

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1716147-CCV1	1716147-001	09/20/17 16:40
Calibration Blank	1716147-CCB1	1716147-002	09/20/17 16:56
Blank	1716147-BLK1	1716147-003	09/20/17 17:11
LCS	1716147-BS1	1716147-004	09/20/17 17:25
Reference	1716147-SRM1	1716147-005	09/20/17 17:41
TF1-GT-121-091117	SC39093-01	1716147-006	09/20/17 18:30
TF1-GT-119-091117	SC39093-02	1716147-007	09/20/17 18:46
TF1-GZ-103-091117	SC39093-03	1716147-008	09/20/17 19:03
Calibration Check	1716147-CCV2	1716147-013	09/20/17 20:20
Calibration Blank	1716147-CCB2	1716147-014	09/20/17 20:36
Calibration Check	1716147-CCV3	1716147-021	09/20/17 22:26
Calibration Blank	1716147-CCB3	1716147-022	09/20/17 22:43

# CROSS REFERENCE TABLE

## SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

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**Client Sample ID:**

TF1-GT-121-091117

TF1-GT-119-091117

TF1-GZ-103-091117

**Lab Sample ID:**

SC39093-01

SC39093-02

SC39093-03

**FORM III - BLANKS****SM18-22 5210B**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: DO MeterCalibration: UNASSIGNEDSequence: S708258

Matrix: Aqueous

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
1715712-BLK1	Biochemical Oxygen Demand (5-day	BRL	3.00	mg/l	U	SM18-22 5210B
1715712-BLK2	Biochemical Oxygen Demand (5-day	BRL	3.00	mg/l	U	SM18-22 5210B

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SM18-22 5210B**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC39093</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>DO Meter</u>
Batch: <u>1715712</u>	Laboratory ID: <u>1715712-BS1</u>
Preparation: <u>General Preparation</u>	Initial/Final: <u>300 ml / 300 ml</u>
Analyzed: <u>09/18/17 10:45</u>	Spike ID: <u>17H0348</u>
	File ID:

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	198	174	88	85 - 115

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

\* Values outside of QC limits

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

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Spike ID: 1710355

Batch: 1715712

Laboratory ID: 1715712-SRM1

Preparation: General Preparation

Initial/Final: 300 ml / 300 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	45.6	44.0	96	67 - 133

\* Values outside of QC limits



# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Spike ID: 1710355

Batch: 1715712

Laboratory ID: 1715712-SRM2

Preparation: General Preparation

Initial/Final: 300 ml / 300 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	45.6	45.0	99	67 - 133

\* Values outside of QC limits

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

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Biochemical Oxygen Demand (5-day)	2.74	3.00	mg/l

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY  
SM18-22 5210B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39093

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708258

Instrument: DO Meter

Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Blank	1715712-BLK1		09/18/17 10:45
LCS	1715712-BS1		09/18/17 10:45
Reference	1715712-SRM1		09/18/17 10:45
TF1-GT-121-091117	SC39093-01		09/18/17 10:45
TF1-GT-119-091117	SC39093-02		09/18/17 10:45
TF1-GZ-103-091117	SC39093-03		09/18/17 10:45
Reference	1715712-SRM2		09/18/17 10:45
Blank	1715712-BLK2		09/18/17 10:45

PREPARATION BENCH SHEET

1715712

Sequence S708258

Balance ID NA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1715712-BLK1	Blank		QC	300	300					
1715712-BLK2	Blank		QC	300	300					
1715712-BS1	LCS		QC	300	300	17H0348				
1715712-DUP1	Duplicate		QC	300	300		SC39036-01			
1715712-MS1	Matrix Spike		QC	300	300	17H0348	SC39036-01			
1715712-MSD1	Matrix Spike Dup		QC	300	300	17H0348	SC39036-01			
1715712-SRM1	Reference		QC	300	300	17I0355				
1715712-SRM2	Reference		QC	300	300	17I0355				
SC39036-01	Influent	A	wc-BOD/5-day	300	300			20-Sep-17 16:00		
SC39036-02	Effluent	A	wc-BOD/5-day	300	300			20-Sep-17 16:00		
SC39093-01	TF1-GT-121-091117	O	wc-BOD/5-day	300	300			21-Sep-17 16:00		DoD Level IV
SC39093-02	TF1-GT-119-091117	O	wc-BOD/5-day	300	300			21-Sep-17 16:00		DoD Level IV
SC39093-03	TF1-GZ-103-091117	O	wc-BOD/5-day	300	300			21-Sep-17 16:00		DoD Level IV
SC39108-03	B091217	A	wc-BOD/5-day	300	300			22-Sep-17 16:00		

wc-BOD5 09/13/17

Reagents Used:

TN 09/18/17  
Analyst Reviewed Date

BD 9/18/17  
Manager Reviewed Date

\_\_\_\_\_  
Extracts Received By Date

1715712

B005  
5704258

Work Continued From Page: 76

Reviewed Weekly By: MB

Start Date: 09/13/17  
Time: 1300  
Analyst: TW

In Date: 09/13/17  
Time: 1500  
Analyst: TW

Out Date: 09/18/17 Date: 11/13/17  
Time: 0930  
Analyst: TW

Bottle number	Sample ID	Client ID	chlorine /pH	volume mL	initial DO	final DO	change in DO	seed blank	dilution factor	Results mg/L	
763	Blk				8.65	8.41	.24				
235	Seed 1				8.62	7.62	1.00			} 1.05	
771	2				8.63	7.49	1.14				
355	3				8.64	7.63	1.01				
485	BS	1740348		3	8.65	5.81	2.84		100	179	} 174 @ 100
960				3	8.65	5.91	2.74		100	169	
460	SRM1	1710355		15	8.64	5.35	3.29		20	45	} 44 @ 20
914				15	8.65	5.43	3.22		20	43	
976	SC39036.01A	Influent	7.67	1	8.66	5.83	2.83		300	534	} 503 @ 100
406				3	8.65	2.89	5.76		100	471	
796				5	8.67	.34	-		60	-	
817	Dup	SC39036.01		1	8.67	5.68	2.99		300	582	} 530 @ 100
542				3	8.67	2.85	5.82		100	477	
699				5	8.66	.25	-		60	-	
448	MS			1	8.65	3.64	5.01		300	1188	} 1215 @ 300
510				1	8.67	3.48	5.19		300	1242	
537	MCP			1	8.66	3.73	4.93		300	1164	
464				1	8.67	3.54	5.13		300	1224	} 1194 @ 300
962	SC39036.02A	Efluent	7.17	10	8.67	7.21	1.46		30	-	
980				30	8.75	7.25	1.50		10	-	
251				100	8.93	6.94	1.99		3	-	} BRL @ 3
772A	SC39093 U10	TF1-GT-121-091117	6.16	10	8.67	7.46	1.21		30	-	
356				30	8.71	7.20	1.51		10	-	} 6 @ 3
731				100	8.91	5.85	3.06		3	6	



# CROSS REFERENCE TABLE

## SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC39093  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

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**Client Sample ID:**

TF1-GT-121-091117

TF1-GT-119-091117

TF1-GZ-103-091117

**Lab Sample ID:**

SC39093-01

SC39093-02

SC39093-03

**FORM III - BLANKS****SM2320B (97, 11)**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC39093Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: Titration

Calibration:

Sequence:

Matrix: Aqueous

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
1715978-BLK1	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715978-BLK2	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715978-BLK3	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715978-BLK4	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)



**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1715978</u>	Laboratory ID:	<u>1715978-BS1</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/19/17 12:32</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-19 1230-002</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	52.4	105	90 - 110

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

\* Values outside of QC limits

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

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1715978</u>	Laboratory ID:	<u>1715978-BS2</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/19/17 13:21</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-19 1230-012</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	51.7	103	90 - 110

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

\* Values outside of QC limits

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

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1715978</u>	Laboratory ID:	<u>1715978-BS3</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/19/17 14:24</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-19 1230-024</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	51.5	103	90 - 110

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

\* Values outside of QC limits

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

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC39093</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1715978</u>	Laboratory ID:	<u>1715978-BS4</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/19/17 15:15</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-19 1230-032</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	51.7	103	90 - 110

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

\* Values outside of QC limits

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

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM2320B (97, 11)

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC39093

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 17H0359

**Batch:** 1715978

**Laboratory ID:** 1715978-SRM1

**Preparation:** General Preparation

**Initial/Final:** 15 ml / 50 ml

ANALYTE	TRUE (mg/l CaCO <sub>3</sub> )	FOUND (mg/l CaCO <sub>3</sub> )	SRM % REC.	QC LIMITS REC.
Total Alkalinity	124	131	105	92 - 111

\* Values outside of QC limits

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

**SM2320B (97, 11)**

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC39093

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

<b>Analyte</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>
Total Alkalinity	1.05	4.00	mg/l CaCO <sub>3</sub>

PREPARATION BENCH SHEET

1715978

AIK-20170919\_1230

Balance ID MA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1715978-BLK1	Blank		QC	50	50					
1715978-BLK2	Blank		QC	50	50					
1715978-BLK3	Blank		QC	50	50					
1715978-BLK4	Blank		QC	50	50					
1715978-BS1	LCS		QC	50	50	17E0587				
1715978-BS2	LCS		QC	50	50	17E0587				
1715978-BS3	LCS		QC	50	50	17E0587				
1715978-BS4	LCS		QC	50	50	17E0587				
1715978-DUP1	Duplicate		QC	100	50		SC39149-06			
1715978-MS1	Matrix Spike		QC	100	50	17E0587	SC39149-06			
1715978-MSD1	Matrix Spike Dup		QC	100	50	17E0587	SC39149-06			
1715978-SRM1	Reference		QC	15	50	17H0359				
SC38858-01	Raw 0917	A	wc-Alkalinity S	50	50			15-Sep-17 16:00		
SC38858-02	Primary 0917	A	wc-Alkalinity S	50	50			15-Sep-17 16:00		
SC38858-03	Final 0917	A	wc-Alkalinity S	50	50			15-Sep-17 16:00		
SC39045-04	GES-2D	H	wc-Alkalinity S	50	50			20-Sep-17 16:00		Sunoco/Mass DEP Method-1/GW-1
SC39045-05	GES-4R	H	wc-Alkalinity S	50	50			20-Sep-17 16:00		Sunoco/Mass DEP Method-1/GW-1
SC39045-07	MW-1	H	wc-Alkalinity S	50	50			20-Sep-17 16:00		Sunoco/Mass DEP Method-1/GW-1
SC39087-01	East Side of Lake	A	wc-Alkalinity S	100	50			21-Sep-17 16:00		
SC39087-02	West Side of Lake	A	wc-Alkalinity S	100	50			21-Sep-17 16:00		
SC39093-01	TF1-GT-121-091117	N	wc-Alkalinity S	100	50			21-Sep-17 16:00		DoD Level IV
SC39093-02	TF1-GT-119-091117	O	wc-Alkalinity S	100	50			21-Sep-17 16:00		DoD Level IV

BD 9/19/17  
 Analyst Reviewed Date

Agew 9/19/17  
 Manager Reviewed Date

\_\_\_\_\_  
 Extracts Received By Date

PREPARATION BENCH SHEET

1715978

Balance ID NA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC39093-03	TF1-GZ-103-091117	O	wc-Alkalinity S	100	50			21-Sep-17 16:00		DoD Level IV
SC39149-01	BED-GW-MW24R-09132017	H	wc-Alkalinity S	100	50			22-Sep-17 16:00		DoD Level IV
SC39149-03	BED-GW-MW8B-09132017	H	wc-Alkalinity S	100	50			22-Sep-17 16:00		DoD Level IV
SC39149-04	BED-GW-MW84R-09132017	H	wc-Alkalinity S	100	50			22-Sep-17 16:00		DoD Level IV
SC39149-05	BED-GW-MW85R-09132017	H	wc-Alkalinity S	100	50			22-Sep-17 16:00		DoD Level IV
SC39149-06	BED-GW-MW23R-09132017	W	wc-Alkalinity S	100	50			22-Sep-17 16:00		Run MS/MSD/DoD Level IV
SC39149-08	BED-GW-DUP03-09132017	H	wc-Alkalinity S	100	50			22-Sep-17 16:00		DoD Level IV
SC39153-03	MW-23	F	wc-Alkalinity S	50	50			22-Sep-17 16:00		
SC39153-05	MW-29	F	wc-Alkalinity S	50	50			22-Sep-17 16:00		
SC39153-06	MW-28	F	wc-Alkalinity S	50	50			22-Sep-17 16:00		

9/18/17

Reagents Used:

BD  
Analyst Reviewed

9/19/17  
Date

Maguel 9.19.17  
Manager Reviewed

Date

Extracts Received By \_\_\_\_\_ Date \_\_\_\_\_



**PREPARATION BENCH SHEET**

1715978

Balance ID \_\_\_\_\_

**Matrix: Aqueous**

**Prepared using: Wet Chem - General Preparation**

**(No Surrogate)**

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1715978-BLK1	Blank		QC	50	50					
1715978-BLK2	Blank		QC	50	50					
1715978-BS1	LCS		QC	50	50					
1715978-DUP1	Duplicate		QC	50	50					
1715978-MS1	Matrix Spike		QC	50	50					
1715978-MSD1	Matrix Spike Dup		QC	50	50					
1715978-SRM1	Reference		QC	50	50					
SC38858-01	Raw 0917	50	- wc-Alkalinity S	50	50			15-Sep-17 16:00		
SC38858-02	Primary 0917	50	- wc-Alkalinity S	50	50			15-Sep-17 16:00		
SC38858-03	Final 0917	50	- wc-Alkalinity S	50	50			15-Sep-17 16:00		
SC39045-04	GES-2D	50	- wc-Alkalinity S	50	50			20-Sep-17 16:00		Sunoco/Mass DEP Method-1/GW-1
SC39045-05	GES-4R	50	- wc-Alkalinity S	50	50			20-Sep-17 16:00		Sunoco/Mass DEP Method-1/GW-1
SC39045-07	MW-1	50	- wc-Alkalinity S	50	50			20-Sep-17 16:00		Sunoco/Mass DEP Method-1/GW-1
SC39087-01	East Side of Lake	100	- wc-Alkalinity S	50	50			21-Sep-17 16:00		
SC39087-02	West Side of Lake	100	- wc-Alkalinity S	50	50			21-Sep-17 16:00		
SC39093-01	TF1-GT-121-091117	100	- wc-Alkalinity S	50	50			21-Sep-17 16:00		DoD Level IV
SC39093-02	TF1-GT-119-091117	100	- wc-Alkalinity S	50	50			21-Sep-17 16:00		DoD Level IV
SC39093-03	TF1-GZ-103-091117	100	- wc-Alkalinity S	50	50			21-Sep-17 16:00		DoD Level IV
SC39149-01	BED-GW-MW24R-09132017		- wc-Alkalinity S	50	50			22-Sep-17 16:00		DoD Level IV
SC39149-03	BED-GW-MW8B-09132017		- wc-Alkalinity S	50	50			22-Sep-17 16:00		DoD Level IV
SC39149-04	BED-GW-MW84R-09132017		- wc-Alkalinity S	50	50			22-Sep-17 16:00		DoD Level IV
SC39149-05	BED-GW-MW85R-09132017		- wc-Alkalinity S	50	50			22-Sep-17 16:00		DoD Level IV

Analyst Reviewed \_\_\_\_\_ Date \_\_\_\_\_

Manager Reviewed \_\_\_\_\_ Date \_\_\_\_\_

Extracts Received By \_\_\_\_\_ Date \_\_\_\_\_

PREPARATION BENCH SHEET

1715978

Balance ID \_\_\_\_\_

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC39149-06	BED-GW-MW23R-09132017	100	wc-Alkalinity S	50	50			22-Sep-17 16:00		Run MS/MSD/DoD Level IV
SC39149-08	BED-GW-DUP03-09132017	100	wc-Alkalinity S	50	50			22-Sep-17 16:00		DoD Level IV
SC39153-03	MW-23 SO	-	wc-Alkalinity S	50	50			22-Sep-17 16:00		
SC39153-05	MW-29 SO	-	wc-Alkalinity S	50	50			22-Sep-17 16:00		
SC39153-06	MW-28 SO	-	wc-Alkalinity S	50	50			22-Sep-17 16:00		

9/18/17

Reagents Used:

Analyst Reviewed \_\_\_\_\_ Date \_\_\_\_\_

Manager Reviewed \_\_\_\_\_ Date \_\_\_\_\_

Extracts Received By \_\_\_\_\_ Date \_\_\_\_\_

Printed: 9/18/2017 10:20:23AM

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	NEWPORT_NS	SC39093	SITE 0007	SITE 0007	TF1-GT-119	Monitoring well	388655.58	184833.02	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GT-119-091117	Ground water	Normal (Regular)	11-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39093	SITE 0007	SITE 0007	TF1-GT-121	Monitoring well	388507.61	184477.26	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GT-121-091117	Ground water	Normal (Regular)	11-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39093							N6247016D9008	WE15	TETRA TECH, INC.	TF1-FRB-091117	Water for QC samples	Field Reagent Blank	11-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39093	SITE 0007	SITE 0007	TF1-GZ-103	Monitoring well	388541.52	184852.49	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GZ-103-091117	Ground water	Normal (Regular)	11-Sep-17	537	Perfluoroalkyl Compounds