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## **CASE NARRATIVE**

**Dewberry Engineers Inc.**

**Project Name: PennDOT - Onvo Travel Plaza #50040379**

**Project # N/A**

**Chemtech Project # Q1061**

**Test Name: Anions Group7,Phosphorus-Total,TDS**

### **A. Number of Samples and Date of Receipt:**

10 Water samples were received on 01/09/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Anions, Anions Group1, Anions Group7, Mercury, Metals Group1, Metals ICP-Group, Metals ICP-Group1, Nitrate+Nitrite, Phosphorus-Total and TDS. This data package contains results for Anions Group7,Phosphorus-Total,TDS.

### **C. Analytical Techniques:**

The analysis of Anions Group7 was based on method 300.0, The analysis of Phosphorus-Total was based on method 365.3 and The analysis of TDS was based on method SM2540 C.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

Sample MW-1 was diluted due to high concentrations for Chloride & Sample MW-2 was diluted due to high concentrations for Chloride & Sample MW-3 was diluted due to high concentrations for Chloride & Sample MW-4 was diluted due to high concentrations for Chloride & Sample MW-5 was diluted due to high concentrations for Phosphorus, Total,Chloride,Nitrate,Sulfate & Sample MW-5DL was diluted due to high concentrations for Chloride & Sample MW-6 was diluted due to high concentrations for Chloride & Sample MW-7 was diluted due to high concentrations for Chloride,Sulfate & Sample MW-7DL was diluted due to high concentrations for Chloride & Sample MW-8 was diluted due to high concentrations for Chloride,Sulfate & Sample MW-8DL was diluted due to high concentrations for Chloride & Sample MW-9 was diluted due to high concentrations for Chloride,Sulfate & Sample MW-9DL was diluted due to high concentrations for Chloride & Sample MW-10 was diluted due to high concentrations for Phosphorus, Total,Chloride,Nitrate,Sulfate & Sample MW-10DL was diluted due to high concentrations for Chloride.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (MW-1MS) analysis met criteria for all samples except for Chloride due to sample matrix interference.

The Matrix Spike Duplicate (MW-1MSD) analysis met criteria for all samples except for Chloride due to sample matrix interference.



The Blank analysis did not indicate the presence of lab contamination.  
The Calibration met the requirements.

**E. Additional Comments:**

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I certify that the 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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_