

LAB CHRONICLE

OrderID:	Q1061	OrderDate:	1/10/2025 9:58:27 AM
Client:	Dewberry Engineers Inc.	Project:	PennDOT - Onvo Travel Plaza #50040379
Contact:	Bill Pendexter	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1061-01	MW-1	WATER			01/09/25 11:00			01/09/25
			Anions Group7	300.0			01/10/25 10:34	
			Phosphorus-Total	365.3		01/15/25	01/15/25 14:06	
			TDS	SM2540 C			01/10/25 12:30	
Q1061-01DL	MW-1DL	WATER			01/09/25 11:00			01/09/25
			Anions Group7	300.0			01/10/25 15:35	
Q1061-02	MW-2	WATER			01/09/25 11:20			01/09/25
			Anions Group7	300.0			01/10/25 11:38	
			Phosphorus-Total	365.3		01/15/25	01/15/25 14:08	
			TDS	SM2540 C			01/10/25 12:30	
Q1061-02DL	MW-2DL	WATER			01/09/25 11:20			01/09/25
			Anions Group7	300.0			01/10/25 15:56	
Q1061-03	MW-3	WATER			01/09/25 11:41			01/09/25
			Anions Group7	300.0			01/10/25 12:00	

LAB CHRONICLE

			Phosphorus-Total	365.3		01/15/25	01/15/25 14:09	
			TDS	SM2540 C			01/10/25 12:30	
Q1061-03DL	MW-3DL	WATER			01/09/25 11:41			01/09/25
			Anions Group7	300.0			01/10/25 16:18	
Q1061-04	MW-4	WATER			01/09/25 12:02			01/09/25
			Anions Group7	300.0			01/10/25 12:21	
			Phosphorus-Total	365.3		01/15/25	01/15/25 14:09	
			TDS	SM2540 C			01/10/25 12:30	
Q1061-04DL	MW-4DL	WATER			01/09/25 12:02			01/09/25
			Anions Group7	300.0			01/10/25 16:39	
Q1061-05	MW-5	WATER			01/09/25 12:26			01/09/25
			Anions Group7	300.0			01/10/25 12:43	
			Phosphorus-Total	365.3		01/15/25	01/15/25 14:10	
			TDS	SM2540 C			01/10/25 12:30	
Q1061-05DL	MW-5DL	WATER			01/09/25 12:26			01/09/25
			Anions Group7	300.0			01/10/25 17:01	
			Phosphorus-Total	365.3		01/15/25	01/15/25 14:14	
Q1061-05DL 2	MW-5DL2	WATER			01/09/25 12:26			01/09/25

LAB CHRONICLE

Q1061-06	MW-6	WATER	Anions Group7	300.0		01/10/25 17:22	01/09/25 12:52	01/09/25
			Anions Group7	300.0		01/10/25 13:05		
			Phosphorus-Total	365.3	01/15/25	01/15/25 14:11		
Q1061-06DL	MW-6DL	WATER	TDS	SM2540 C		01/10/25 12:30	01/09/25 12:52	01/09/25
			Anions Group7	300.0		01/10/25 18:27		
			Anions Group7	300.0		01/10/25 14:09		
Q1061-07	MW-7	WATER	Phosphorus-Total	365.3	01/15/25	01/15/25 14:12	01/09/25 13:42	01/09/25
			TDS	SM2540 C		01/10/25 12:30		
			Anions Group7	300.0		01/10/25 18:48		
Q1061-07DL	MW-7DL	WATER	Anions Group7	300.0		01/10/25 19:09	01/09/25 13:42	01/09/25
			Anions Group7	300.0		01/10/25 19:09		
			Anions Group7	300.0		01/10/25 19:09		
Q1061-07DL 2	MW-7DL2	WATER	Phosphorus-Total	365.3	01/15/25	01/15/25 14:12	01/09/25 13:14	01/09/25
			Anions Group7	300.0		01/10/25 14:30		
			Anions Group7	300.0		01/10/25 14:30		
Q1061-08	MW-8	WATER	Phosphorus-Total	365.3	01/15/25	01/15/25 14:12	01/09/25 13:14	01/09/25
			Anions Group7	300.0		01/10/25 14:30		
			Anions Group7	300.0		01/10/25 14:30		

LAB CHRONICLE

TDS

SM2540 C

01/10/25
12:30

Q1061-08DL

MW-8DL

WATER

**01/09/25
13:14**

01/09/25

Anions Group7

300.0

01/10/25
19:31

**Q1061-08DL
2**

MW-8DL2

WATER

**01/09/25
13:14**

01/09/25

Anions Group7

300.0

01/10/25
19:53

Q1061-09

MW-9

WATER

**01/09/25
14:06**

01/09/25

Anions Group7

300.0

01/10/25
14:52

Phosphorus-Total

365.3

01/15/25

01/15/25
14:13

TDS

SM2540 C

01/10/25
12:30

Q1061-09DL

MW-9DL

WATER

**01/09/25
14:06**

01/09/25

Anions Group7

300.0

01/10/25
20:14

**Q1061-09DL
2**

MW-9DL2

WATER

**01/09/25
14:06**

01/09/25

Anions Group7

300.0

01/10/25
20:36

Q1061-10

MW-10

WATER

**01/09/25
14:20**

01/09/25

Anions Group7

300.0

01/10/25
15:13

Phosphorus-Total

365.3

01/15/25

01/15/25
14:13

TDS

SM2540 C

01/10/25
12:30

Q1061-10DL

MW-10DL

WATER

**01/09/25
14:20**

01/09/25

LAB CHRONICLE

Q1061-10DL 2	MW-10DL2	WATER	Anions Group7	300.0		01/10/25 20:57	
			Phosphorus-Total	365.3	01/15/25	01/15/25 14:15	
					01/09/25 14:20		01/09/25
			Anions Group7	300.0		01/10/25 22:02	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 11:00
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-1	SDG No.:	Q1061
Lab Sample ID:	Q1061-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	32.4	OR	1	0.011	0.60	mg/L		01/10/25 10:34	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		01/10/25 10:34	300.0
Nitrate	0.0034	U	1	0.0034	0.50	mg/L		01/10/25 10:34	300.0
Sulfate	10.1		1	0.032	3.00	mg/L		01/10/25 10:34	300.0
Phosphorus, Total	0.26		1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:06	365.3
TDS	251		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
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 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements
 H = Sample Analysis Out Of Hold Time

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 11:00
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-1DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	27.7	D	10	0.11	6.00	mg/L		01/10/25 15:35	300.0

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Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 11:20
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-2	SDG No.:	Q1061
Lab Sample ID:	Q1061-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	43.9	OR	1	0.011	0.60	mg/L		01/10/25 11:38	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		01/10/25 11:38	300.0
Nitrate	0.0034	U	1	0.0034	0.50	mg/L		01/10/25 11:38	300.0
Sulfate	9.80		1	0.032	3.00	mg/L		01/10/25 11:38	300.0
Phosphorus, Total	0.28		1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:08	365.3
TDS	187		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

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Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 11:20
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-2DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-02DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	38.2	D	10	0.11	6.00	mg/L		01/10/25 15:56	300.0

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Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 11:41
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-3	SDG No.:	Q1061
Lab Sample ID:	Q1061-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	159	OR	1	0.011	0.60	mg/L		01/10/25 12:00	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		01/10/25 12:00	300.0
Nitrate	0.0034	U	1	0.0034	0.50	mg/L		01/10/25 12:00	300.0
Sulfate	16.9		1	0.032	3.00	mg/L		01/10/25 12:00	300.0
Phosphorus, Total	0.24		1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:09	365.3
TDS	595		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

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Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 11:41
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-3DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	122	D	50	0.55	30.0	mg/L		01/10/25 16:18	300.0

Comments: _____

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Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 12:02
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-4	SDG No.:	Q1061
Lab Sample ID:	Q1061-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	145	OR	1	0.011	0.60	mg/L		01/10/25 12:21	300.0
Nitrite	0.22	J	1	0.011	0.60	mg/L		01/10/25 12:21	300.0
Nitrate	0.21	J	1	0.0034	0.50	mg/L		01/10/25 12:21	300.0
Sulfate	22.3		1	0.032	3.00	mg/L		01/10/25 12:21	300.0
Phosphorus, Total	1.01		1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:09	365.3
TDS	482		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

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Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 12:02
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-4DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-04DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	114	D	50	0.55	30.0	mg/L		01/10/25 16:39	300.0

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Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 12:26
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-5	SDG No.:	Q1061
Lab Sample ID:	Q1061-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	335	OR	1	0.011	0.60	mg/L		01/10/25 12:43	300.0
Nitrite	0.33	J	1	0.011	0.60	mg/L		01/10/25 12:43	300.0
Nitrate	16.9	OR	1	0.0034	0.50	mg/L		01/10/25 12:43	300.0
Sulfate	46.5	OR	1	0.032	3.00	mg/L		01/10/25 12:43	300.0
Phosphorus, Total	2.06	OR	1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:10	365.3
TDS	288		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

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Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 12:26
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-5DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	277	OR	5	0.055	3.00	mg/L		01/10/25 17:01	300.0
Nitrate	16.0	D	5	0.017	2.50	mg/L		01/10/25 17:01	300.0
Sulfate	48.6	D	5	0.16	15.0	mg/L		01/10/25 17:01	300.0
Phosphorus, Total	5.66	D	20	0.094	1.00	mg/L	01/15/25 11:45	01/15/25 14:14	365.3

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Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-5DL2	SDG No.:	Q1061
Lab Sample ID:	Q1061-05DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	234	D	100	1.10	60.0	mg/L		01/10/25 17:22	300.0

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Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 12:52
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-6	SDG No.:	Q1061
Lab Sample ID:	Q1061-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	146	OR	1	0.011	0.60	mg/L		01/10/25 13:05	300.0
Nitrite	0.26	J	1	0.011	0.60	mg/L		01/10/25 13:05	300.0
Nitrate	0.0034	U	1	0.0034	0.50	mg/L		01/10/25 13:05	300.0
Sulfate	31.5		1	0.032	3.00	mg/L		01/10/25 13:05	300.0
Phosphorus, Total	0.20		1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:11	365.3
TDS	527		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

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Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 12:52
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-6DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-06DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	112	D	50	0.55	30.0	mg/L		01/10/25 18:27	300.0

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Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 13:42
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-7	SDG No.:	Q1061
Lab Sample ID:	Q1061-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	153	OR	1	0.011	0.60	mg/L		01/10/25 14:09	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		01/10/25 14:09	300.0
Nitrate	0.0034	U	1	0.0034	0.50	mg/L		01/10/25 14:09	300.0
Sulfate	40.0	OR	1	0.032	3.00	mg/L		01/10/25 14:09	300.0
Phosphorus, Total	0.39		1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:12	365.3
TDS	742		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

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 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 13:42
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-7DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	140	OR	2	0.022	1.20	mg/L		01/10/25 18:48	300.0
Sulfate	39.9	D	2	0.064	6.00	mg/L		01/10/25 18:48	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 13:42
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-7DL2	SDG No.:	Q1061
Lab Sample ID:	Q1061-07DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	116	D	50	0.55	30.0	mg/L		01/10/25 19:09	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 13:14
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-8	SDG No.:	Q1061
Lab Sample ID:	Q1061-08	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	131	OR	1	0.011	0.60	mg/L		01/10/25 14:30	300.0
Nitrite	0.30	J	1	0.011	0.60	mg/L		01/10/25 14:30	300.0
Nitrate	2.00		1	0.0034	0.50	mg/L		01/10/25 14:30	300.0
Sulfate	48.7	OR	1	0.032	3.00	mg/L		01/10/25 14:30	300.0
Phosphorus, Total	0.20		1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:12	365.3
TDS	483		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 13:14
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-8DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-08DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	119	OR	2	0.022	1.20	mg/L		01/10/25 19:31	300.0
Sulfate	47.9	D	2	0.064	6.00	mg/L		01/10/25 19:31	300.0

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements
 H = Sample Analysis Out Of Hold Time

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 13:14
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-8DL2	SDG No.:	Q1061
Lab Sample ID:	Q1061-08DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	103	D	50	0.55	30.0	mg/L		01/10/25 19:53	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 14:06
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-9	SDG No.:	Q1061
Lab Sample ID:	Q1061-09	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	214	OR	1	0.011	0.60	mg/L		01/10/25 14:52	300.0
Nitrite	0.34	J	1	0.011	0.60	mg/L		01/10/25 14:52	300.0
Nitrate	0.0034	U	1	0.0034	0.50	mg/L		01/10/25 14:52	300.0
Sulfate	38.2	OR	1	0.032	3.00	mg/L		01/10/25 14:52	300.0
Phosphorus, Total	0.24		1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:13	365.3
TDS	577		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 14:06
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-9DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-09DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	198	OR	2	0.022	1.20	mg/L		01/10/25 20:14	300.0
Sulfate	38.4	D	2	0.064	6.00	mg/L		01/10/25 20:14	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 14:06
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-9DL2	SDG No.:	Q1061
Lab Sample ID:	Q1061-09DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	155	D	50	0.55	30.0	mg/L		01/10/25 20:36	300.0

Comments:

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 14:20
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-10	SDG No.:	Q1061
Lab Sample ID:	Q1061-10	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	232	OR	1	0.011	0.60	mg/L		01/10/25 15:13	300.0
Nitrite	0.30	J	1	0.011	0.60	mg/L		01/10/25 15:13	300.0
Nitrate	29.0	OR	1	0.0034	0.50	mg/L		01/10/25 15:13	300.0
Sulfate	49.3	OR	1	0.032	3.00	mg/L		01/10/25 15:13	300.0
Phosphorus, Total	1.31	OR	1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:13	365.3
TDS	725		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 14:20
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-10DL	SDG No.:	Q1061
Lab Sample ID:	Q1061-10DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	186	OR	5	0.055	3.00	mg/L		01/10/25 20:57	300.0
Nitrate	25.5	D	5	0.017	2.50	mg/L		01/10/25 20:57	300.0
Sulfate	51.0	D	5	0.16	15.0	mg/L		01/10/25 20:57	300.0
Phosphorus, Total	2.56	D	5	0.024	0.25	mg/L	01/15/25 11:45	01/15/25 14:15	365.3

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements
 H = Sample Analysis Out Of Hold Time

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Dewberry Engineers Inc.	Date Collected:	01/09/25 14:20
Project:	PennDOT - Onvo Travel Plaza #50040379	Date Received:	01/09/25
Client Sample ID:	MW-10DL2	SDG No.:	Q1061
Lab Sample ID:	Q1061-10DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	167	D	50	0.55	30.0	mg/L		01/10/25 22:02	300.0

Comments: _____

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Dewberry Engineers Inc.

SDG No.: Q1061

Project: PennDOT - Onvo Travel Plaza #50040379

RunNo.: LB134248

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: CCV1						
Bromide	mg/L	10.5	10	105	90-110	01/10/2025
Chloride	mg/L	3.1	3	103	90-110	01/10/2025
Fluoride	mg/L	2.1	2	105	90-110	01/10/2025
Nitrite	mg/L	3.1	3	103	90-110	01/10/2025
Nitrate	mg/L	2.6	2.5	104	90-110	01/10/2025
Sulfate	mg/L	15.9	15	106	90-110	01/10/2025
Orthophosphate as P	mg/L	5.5	5	110	90-110	01/10/2025
Sample ID: CCV2						
Bromide	mg/L	10.5	10	105	90-110	01/10/2025
Chloride	mg/L	3.1	3	103	90-110	01/10/2025
Fluoride	mg/L	2.1	2	105	90-110	01/10/2025
Nitrite	mg/L	3.1	3	103	90-110	01/10/2025
Nitrate	mg/L	2.6	2.5	104	90-110	01/10/2025
Sulfate	mg/L	15.6	15	104	90-110	01/10/2025
Orthophosphate as P	mg/L	5.4	5	108	90-110	01/10/2025
Sample ID: CCV3						
Bromide	mg/L	10.4	10	104	90-110	01/10/2025
Chloride	mg/L	3.1	3	103	90-110	01/10/2025
Fluoride	mg/L	2.1	2	105	90-110	01/10/2025
Nitrite	mg/L	3.1	3	103	90-110	01/10/2025
Nitrate	mg/L	2.6	2.5	104	90-110	01/10/2025
Sulfate	mg/L	15.4	15	103	90-110	01/10/2025
Orthophosphate as P	mg/L	5.4	5	108	90-110	01/10/2025
Sample ID: CCV4						
Bromide	mg/L	10.4	10	104	90-110	01/10/2025
Chloride	mg/L	3.1	3	103	90-110	01/10/2025
Fluoride	mg/L	2.1	2	105	90-110	01/10/2025
Nitrite	mg/L	3.1	3	103	90-110	01/10/2025
Nitrate	mg/L	2.6	2.5	104	90-110	01/10/2025
Sulfate	mg/L	15.5	15	103	90-110	01/10/2025
Orthophosphate as P	mg/L	5.5	5	110	90-110	01/10/2025
Sample ID: ICV1						
Bromide	mg/L	10.3	10	103	90-110	12/18/2024
Chloride	mg/L	3.1	3	103	90-110	12/18/2024
Fluoride	mg/L	2	2	100	90-110	12/18/2024
Nitrite	mg/L	3.1	3	103	90-110	12/18/2024
Nitrate	mg/L	2.6	2.5	104	90-110	12/18/2024
Sulfate	mg/L	15.3	15	102	90-110	12/18/2024

Initial and Continuing Calibration Verification

Client: Dewberry Engineers Inc.

SDG No.: Q1061

Project: PennDOT - Onvo Travel Plaza #50040379

RunNo.: LB134248

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Orthophosphate as P	mg/L	5.1	5	102	90-110	12/18/2024

Initial and Continuing Calibration Verification

Client: Dewberry Engineers Inc.

SDG No.: Q1061

Project: PennDOT - Onvo Travel Plaza #50040379

RunNo.: LB134293

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.482	0.50	96	90-110	01/15/2025
Sample ID: CCV1 Phosphorus, Total	mg/L	0.488	0.50	98	90-110	01/15/2025
Sample ID: CCV2 Phosphorus, Total	mg/L	0.482	0.50	96	90-110	01/15/2025
Sample ID: CCV3 Phosphorus, Total	mg/L	0.488	0.50	98	90-110	01/15/2025

Initial and Continuing Calibration Blank Summary

Client: Dewberry Engineers Inc.

SDG No.: Q1061

Project: PennDOT - Onvo Travel Plaza #50040379

RunNo.: LB134248

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	01/10/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	01/10/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	01/10/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	01/10/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	01/10/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	01/10/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	01/10/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	01/10/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	01/10/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	01/10/2025
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	01/10/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	01/10/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	01/10/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	01/10/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	01/10/2025
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	01/10/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	01/10/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	01/10/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	01/10/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	01/10/2025
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	12/18/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	12/18/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	12/18/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	12/18/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	12/18/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	12/18/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	12/18/2024

Initial and Continuing Calibration Blank Summary

Client: Dewberry Engineers Inc.

SDG No.: Q1061

Project: PennDOT - Onvo Travel Plaza #50040379

RunNo.: LB134293

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	0.011	0.0250	J	0.0047	0.05	01/15/2025
Sample ID: CCB1 Phosphorus, Total	mg/L	0.011	0.0250	J	0.0047	0.05	01/15/2025
Sample ID: CCB2 Phosphorus, Total	mg/L	0.011	0.0250	J	0.0047	0.05	01/15/2025
Sample ID: CCB3 Phosphorus, Total	mg/L	0.011	0.0250	J	0.0047	0.05	01/15/2025

Preparation Blank Summary

Client: Dewberry Engineers Inc.

SDG No.: Q1061

Project: PennDOT - Onvo Travel Plaza #50040379

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB134233BL						
TDS	mg/L	1	5.0000	J	1.0	10	01/10/2025
Sample ID:	LB134248BLW						
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	01/10/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	01/10/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	01/10/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	01/10/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	01/10/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	01/10/2025
Sample ID:	PB166041BL						
Phosphorus, Total	mg/L	0.011	0.0250	J	0.005	0.05	01/15/2025

Matrix Spike Summary

Client:	Dewberry Engineers Inc.	SDG No.:	Q1061
Project:	PennDOT - Onvo Travel Plaza #50040379	Sample ID:	Q1061-01
Client ID:	MW-1MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.1		0.034	U	10	1	101		01/10/2025
Phosphorus, Total	mg/L	90-110	0.73		0.26		0.5	1	94		01/15/2025
Chloride	mg/L	80-120	32.1	OR	32.4	OR	3	1	-10	*	01/10/2025
Fluoride	mg/L	80-120	2.20		0.057	U	2	1	110		01/10/2025
Nitrite	mg/L	80-120	3.00		0.011	U	3	1	100		01/10/2025
Nitrate	mg/L	80-120	2.50		0.0034	U	2.5	1	100		01/10/2025
Sulfate	mg/L	80-120	24.2		10.1		15	1	94		01/10/2025
Orthophosphate as P	mg/L	80-120	4.90		0.079	U	5	1	98		01/10/2025

Matrix Spike Summary

Client:	Dewberry Engineers Inc.	SDG No.:	Q1061
Project:	PennDOT - Onvo Travel Plaza #50040379	Sample ID:	Q1061-01
Client ID:	MW-1MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.0		0.034	U	10	1	100		01/10/2025
Phosphorus, Total	mg/L	90-110	0.72		0.26		0.5	1	93		01/15/2025
Chloride	mg/L	80-120	32.1	OR	32.4	OR	3	1	-10	*	01/10/2025
Fluoride	mg/L	80-120	2.20		0.057	U	2	1	110		01/10/2025
Nitrite	mg/L	80-120	3.00		0.011	U	3	1	100		01/10/2025
Nitrate	mg/L	80-120	2.50		0.0034	U	2.5	1	100		01/10/2025
Sulfate	mg/L	80-120	24.0		10.1		15	1	93		01/10/2025
Orthophosphate as P	mg/L	80-120	4.70		0.079	U	5	1	94		01/10/2025

Duplicate Sample Summary

Client:	Dewberry Engineers Inc.	SDG No.:	Q1061
Project:	PennDOT - Onvo Travel Plaza #50040379	Sample ID:	Q1061-01
Client ID:	MW-1DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phosphorus, Total	mg/L	+/-20	0.26		0.26		1	0.39		01/15/2025

Duplicate Sample Summary

Client: Dewberry Engineers Inc.	SDG No.: Q1061
Project: PennDOT - Onvo Travel Plaza #50040379	Sample ID: Q1061-01
Client ID: MW-1MSD	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	2.20		2.20		1	0		01/10/2025
Nitrate	mg/L	+/-20	2.50		2.50		1	0		01/10/2025
Nitrite	mg/L	+/-20	3.00		3.00		1	0		01/10/2025
Chloride	mg/L	+/-20	32.1	OR	32.1	OR	1	0		01/10/2025
Bromide	mg/L	+/-20	10.1		10.0		1	1		01/10/2025
Sulfate	mg/L	+/-20	24.2		24.0		1	1		01/10/2025
Orthophosphate as P	mg/L	+/-20	4.90		4.70		1	4		01/10/2025
Phosphorus, Total	mg/L	+/-20	0.73		0.72		1	0.41		01/15/2025

Duplicate Sample Summary

Client:	Dewberry Engineers Inc.	SDG No.:	Q1061
Project:	PennDOT - Onvo Travel Plaza #50040379	Sample ID:	Q1070-01
Client ID:	1 EFFLUENT COMPOSITEDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	4120		4210		1	2.19		01/10/2025

Laboratory Control Sample Summary

Client: Dewberry Engineers Inc.

SDG No.: Q1061

Project: PennDOT - Onvo Travel Plaza #50040379

Run No.: LB134233

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134233BS							
TDS	mg/L	100	95.0		95	1	90-110	01/10/2025

Laboratory Control Sample Summary

Client:	Dewberry Engineers Inc.	SDG No.:	Q1061
Project:	PennDOT - Onvo Travel Plaza #50040379	Run No.:	LB134248

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134248BSW							
Bromide	mg/L	10	10.2		102	1	90-110	01/10/2025
Chloride	mg/L	3	3.00		100	1	90-110	01/10/2025
Fluoride	mg/L	2	2.00		100	1	90-110	01/10/2025
Nitrite	mg/L	3	3.00		100	1	90-110	01/10/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	01/10/2025
Sulfate	mg/L	15	15.5		103	1	90-110	01/10/2025
Orthophosphate as P	mg/L	5	5.30		106	1	90-110	01/10/2025

Laboratory Control Sample Summary

Client: Dewberry Engineers Inc.

SDG No.: Q1061

Project: PennDOT - Onvo Travel Plaza #50040379

Run No.: LB134293

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB166041BS							
Phosphorus, Total	mg/L	0.50	0.48		96	1	90-110	01/15/2025