TEP BWQ: PA 34-24 Rule 609 Analytic Summary														
Station Name			**Naugle 202848**											
Facility ID			**755923**											
Sample Date			**8/31/2017**						**8/25/2020**					
Field Sample ID			**NAUGLE 202848**						**NAUGLE 202848**					
Lab Sample ID			**1709015-1**						**2008585-1**					
Sampling Event			**Baseline**						**1st Subsequent**					
	Units	**Analytic Method**	**Result**	**Lab Qual**	**WWL Qual**	**RL**	**MDL**	**DF**	**Result**	**Lab Qual**	**WWL Qual**	**RL**	**MDL**	**DF**
Inorganics														
Alkalinity, Total as CaCO3	MG/L	SM2320B	520			20		1	420			20		1
Alkalinity, Bicarbonate as CaCO3	MG/L	SM2320B	520			20		1	420			20		1
Alkalinity, Carbonate	MG/L	SM2320B	20	U		20		1	20	U		20		1
Bromide	MG/L	EPA300.0	1	U		1	0.3	5	4	U		4	1.3	20
Chloride	MG/L	EPA300.0	310			12	3.8	62.5	380			4	1.5	20
Fluoride	MG/L	EPA300.0	0.74			0.5	0.15	5	2	U		2	0.78	20
Sulfate	MG/L	EPA300.0	2700			62	9.4	62.5	2500			50	26	50
Nitrogen, Nitrate	MG/L	EPA300.0	3			1	0.3	5	14			4	1.8	20
Nitrogen, Nitrite	MG/L	EPA300.0	0.5	U		0.5	0.15	5	3	U		3	1.4	20
pH	PH	SM4500-H	7.18		H	0.1		1	7.58		H	0.1		1
Phosphorus, Total	MG/L	EPA365.2	0.05	U		0.05	0.045	1	0.033	J		0.05	0.016	1
Solids, Total Dissolved	MG/L	SM2540C	5300			200		1	4600		H	80		1
Specific Conductivity	UMHOS/CM	SM2510B	6160			1		1	5870			1		1
Dissolved Metals														
Barium	MG/L	EPA200.8	0.0076			0.001	0.0006	10	0.008			0.001	0.00049	10
Boron	MG/L	EPA200.8	0.17			0.05	0.015	10	0.12			0.05	0.026	10
Calcium	MG/L	EPA200.8	300			1	0.3	10	330			1	0.18	10
Iron	MG/L	EPA200.8	0.044	U		0.1	0.044	10	0.071	U		0.15	0.071	10
Magnesium	MG/L	EPA200.8	200			0.1	0.03	10	190			0.1	0.023	10
Manganese	MG/L	EPA200.8	0.25			0.002	0.0006	10	0.26			0.004	0.0021	10
Potassium	MG/L	EPA200.8	8			1	0.3	10	7.4			1	0.2	10
Selenium	MG/L	EPA200.8	0.024			0.001	0.0003	10	0.037			0.0015	0.00067	10
Sodium	MG/L	EPA200.8	920			1	0.3	10	880			1	0.13	10
Strontium	MG/L	EPA200.8	4.5			0.001	0.00049	10	4.7			0.001	0.00024	10
TPH/BTEX														
TPH-DRO (C10-C28)	MG/L	SW8015M	0.59	U		0.59	0.16	1	1	U		1	0.51	1
TPH-GRO (C6-C10)	UG/L	SW8260_25	100	U		100	47	1	100	U		100	51	1
Benzene	UG/L	SW8260_25	1	U		1	0.32	1	1	U		1	0.3	1
Ethylbenzene	UG/L	SW8260_25	1	U		1	0.31	1	1	U		1	0.33	1
Toluene	UG/L	SW8260_25	1	U		1	0.31	1	1	U		1	0.34	1
Xylene (total)	UG/L	SW8260_25	1	U		1		1	1	U		1		1
Dissolved Gases														
Ethane	UG/L	RSK175	2	U		2	2	1	2	U		2	2	1
Methane	UG/L	RSK175	1	U		1	1	1	1	U		1	1	1
Propane	UG/L	RSK175	1	U		1	1	1	1	U		1	1	1
Biological														
Iron Reducing Bacteria	CFU/ML	BART	9000			1		1	9000			1		1
Slime Forming Bacteria	CFU/ML	BART	0			1		1	2500			1		1
Sulfate Reducing Bacteria	CFU/ML	BART	0			1		1	325			1		1
Field Parameters														
Water temp, field	deg C	YSI 556	16.54						17.3					
pH, field	s.u.	YSI 556	7.04						7.02					
Specific cond., field	uS/cm	YSI 556	5889						5200					
Conductivity, field	uS/cm	YSI 556	4937						4436					
DO saturation, field	%	YSI 556	21.8						26.2					
DO, field	mg/L	YSI 556	2.09						2.48					
ORP, field	mv	YSI 556	167.4						87.1					
Turbidity, field	ntu	Micro TPI	5.11		AV				1.28					
Discharge	gpm		2.3		AV				2.6					
Color	nu		Clear						Clear					
Odor	nu		None						None					
Effervescense	nu		Mod						Mild					
Sediment	nu		None						None					
Bubbles	nu		None						None					
VOA Headspace	nu		<pea-size						None					

Notes:

U = not detected at the method detection limit

J = result between RL and MDL, estimated

H = hold time exceeded

AV = result averaged

NM = not measured

E = estimated

TEP BWQ: PA 34-24 Rule 609 Analytic Summary														
Station Name			**Naugle 67992-F**											
Facility ID			**755924**											
Sample Date			**8/31/2017**						**8/25/2020**					
Field Sample ID			**NAUGLE 67992-F**						**NAUGLE 67992-F**					
Lab Sample ID			**1709015-2**						**2008585-2**					
Sampling Event			**Baseline**						**1st Subsequent**					
	Units	**Analytic Method**	**Result**	**Lab Qual**	**WWL Qual**	**RL**	**MDL**	**DF**	**Result**	**Lab Qual**	**WWL Qual**	**RL**	**MDL**	**DF**
Inorganics														
Alkalinity, Total as CaCO3	MG/L	SM2320B	450			20		1	420			20		1
Alkalinity, Bicarbonate as CaCO3	MG/L	SM2320B	450			20		1	420			20		1
Alkalinity, Carbonate	MG/L	SM2320B	20	U		20		1	20	U		20		1
Bromide	MG/L	EPA300.0	1	U		1	0.3	5	4	U		4	1.3	20
Chloride	MG/L	EPA300.0	840			12	3.8	62.5	760			10	3.8	50
Fluoride	MG/L	EPA300.0	0.33	J		0.5	0.15	5	2	U		2	0.78	20
Sulfate	MG/L	EPA300.0	2700			62	9.4	62.5	2300			50	26	50
Nitrogen, Nitrate	MG/L	EPA300.0	4.5			1	0.3	5	4.5		H	4	1.8	20
Nitrogen, Nitrite	MG/L	EPA300.0	0.5	U		0.5	0.15	5	3	U	H	3	1.4	20
pH	PH	SM4500-H	7.09		H	0.1		1	7.48		H	0.1		1
Phosphorus, Total	MG/L	EPA365.2	0.05	U		0.05	0.045	1	0.033	J		0.05	0.016	1
Solids, Total Dissolved	MG/L	SM2540C	5600			200		1	4000		H	200		1
Specific Conductivity	UMHOS/CM	SM2510B	7070			1		1	6460			1		1
Dissolved Metals														
Barium	MG/L	EPA200.8	0.013			0.001	0.0006	10	0.011			0.001	0.00049	10
Boron	MG/L	EPA200.8	0.13			0.05	0.015	10	0.11			0.05	0.026	10
Calcium	MG/L	EPA200.8	510			1	0.3	10	460			1	0.18	10
Iron	MG/L	EPA200.8	0.044	U		0.1	0.044	10	0.085	J		0.15	0.071	10
Magnesium	MG/L	EPA200.8	220			0.1	0.03	10	190			0.1	0.023	10
Manganese	MG/L	EPA200.8	0.0082			0.002	0.0006	10	0.018			0.004	0.0021	10
Potassium	MG/L	EPA200.8	9.2			1	0.3	10	8.5			1	0.2	10
Selenium	MG/L	EPA200.8	0.045			0.001	0.0003	10	0.04			0.0015	0.00067	10
Sodium	MG/L	EPA200.8	910			1	0.3	10	910			1	0.13	10
Strontium	MG/L	EPA200.8	5.1			0.001	0.00049	10	4.5			0.001	0.00024	10
TPH/BTEX														
TPH-DRO (C10-C28)	MG/L	SW8015M	0.6	U		0.6	0.17	1	1	U		1	0.53	1
TPH-GRO (C6-C10)	UG/L	SW8260_25	100	U		100	47	1	100	U		100	51	1
Benzene	UG/L	SW8260_25	1	U		1	0.32	1	1	U		1	0.3	1
Ethylbenzene	UG/L	SW8260_25	1	U		1	0.31	1	1	U		1	0.33	1
Toluene	UG/L	SW8260_25	1	U		1	0.31	1	1	U		1	0.34	1
Xylene (total)	UG/L	SW8260_25	1	U		1		1	1	U		1		1
Dissolved Gases														
Ethane	UG/L	RSK175	2	U		2	2	1	2	U		2	2	1
Methane	UG/L	RSK175	1	U		1	1	1	1	U		1	1	1
Propane	UG/L	RSK175	1	U		1	1	1	1	U		1	1	1
Biological														
Iron Reducing Bacteria	CFU/ML	BART	9000			1		1	9000			1		1
Slime Forming Bacteria	CFU/ML	BART	0			1		1	13000			1		1
Sulfate Reducing Bacteria	CFU/ML	BART	700000			1		1	0			1		1
Field Parameters														
Water temp, field	deg C	YSI 556	18.62						19.7					
pH, field	s.u.	YSI 556	6.95						6.96					
Specific cond., field	uS/cm	YSI 556	6809						6063					
Conductivity, field	uS/cm	YSI 556	5970						5435					
DO saturation, field	%	YSI 556	54						3.6					
DO, field	mg/L	YSI 556	4.96						0.32					
ORP, field	mv	YSI 556	176.2						73.5					
Turbidity, field	ntu	Micro TPI	2.19						2.17		AV			
Discharge	gpm		6.4		AV				1.8					
Color	nu		Clear						Clear					
Odor	nu		None						None					
Effervescense	nu		None						None					
Sediment	nu		None						None					
Bubbles	nu		None						None					
VOA Headspace	nu		None						None					

Notes:

U = not detected at the method detection limit

J = result between RL and MDL, estimated

H = hold time exceeded

AV = result averaged

NM = not measured

E = estimated