

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station		Purge Date:	September 29, 2016	
Project Location:	Salisbury, NC		Purge Time:	55 Minutes	
Project Number:	7126-16-032A		Sample Date:	September 29, 2016	
Source Well:	MW-12D		Sample Time:	14:40	
Locked?:	Yes		Weather:	Clouds/Rain	
Sampled By:	Darren Cox		Air Temp:	70s ° F	
Flow Through Cell Serial No.:	16E100019	Pump Serial No.:	1519	Calibration Date:	September 29, 2016

Water Level & Well Data

Measuring Point:	Top of Casing		
Depth to Water:	7.78	ft-TOC	
Total Well Depth:	51.70	ft-TOC	
Height of Water Column:	43.92	feet	
Screen Length:	5	feet	Stickup: 2.7 ft-GRD

Well Volume		
Well Diameter	2	inch
Water Volume	7.2	Gal
3 * Well Volume	21.50	Gal
5 * Well Volume	35.84	Gal

Well Purging Information

Purge Method:		Bladder Pump		Start Time:	13:40	End Time:	14:35	
(If Used)	Bladder Pump Control Settings:	On (sec):	8	Off (sec):	7	Pressure:	60	psi
Pump Intake Depth from Top of Casing:		49		ft-TOC				
Water Column Above Pump Intake:		41.22		feet		Flow Through Cell Vol:		200 mL
DTW-TOC at 25% Drawdown of WC Above Pump:		18.09		ft-TOC		Comments:		
Final Volume Purged:		4.0		Gallons		Used YSI Pro Plus		
Final Volume Purge Rate:		200		mL/min				
Well Purged Dry?:		No		(Yes/No)				

Field Parameters (Taken at time intervals with purge volumes ≥ 2 Flow Through Cell Volumes)

Time	Volume Purged (gal)	Flow Rate (mL/min)	Depth to Water (ft)	Temp (°C)	pH (s.u.)	Spec. Cond. (µS/cm)	Dissolved Oxygen (mg/L)	ORP* (mV)	Turbidity (NTU)	Comment
13:40		200								Start Purging
13:55	0.8	200	7.80	18.9	6.3	84	4.1	132	4.68	
14:00	1.1	200	7.80	17.1	6.3	82	4.8	150	3.19	
14:05	1.3	200	7.80	18.4	6.3	83	4.6	154	2.94	
14:10	2.6	1000			6.3	81				
14:15	3.0	300	7.85	16.6	6.2	81	5.6	178	3.46	
14:20	3.2	100	7.82	16.9	6.3	81	5.7	181	2.35	
14:25	3.4	200	7.88	17.1	6.3	82	5.9	185	2.77	
14:30	3.7	200	7.92	17.0	6.3	84	5.9	190	3.70	
14:35	4.0	200	7.94	16.8	6.3	82	6.0	195	3.17	

Final: 14:35 4.0 200 7.94 16.8 6.3 82 6.0 195 3.2 End of Purging

Sample Method: Bladder Pump

Sample Start Time: 14:40

Sample End Time: 15:40

Analytical Data

Method	Qty	Container	Preservative	Method	Qty	Container	Preservative
TSS	1	PET	Ice	TOC	3	Glass	Phosphoric Acid
TDS	1	PET	Ice	Nitrate-Nitrite	1	PET	H2SO4
Methane RSK-175	3	Glass	HCl	Radium 226 & 228	3	PET	HNO3
Cl, SO4	1	PET	Ice	Metals- Total	1	HDPE	HNO3
Alkalinity, Bicarbonate, Carbonate	1	PET	Ice	Metals - Dissolved	1	HDPE	HNO3

Name	Signature	Date
(1) Darren Cox	_____	9/29/2016
(2) Bryan Wence	_____	9/29/2016

Notes: To convert ORP to Eh, add 205 mv to ORP.