

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station	Purge Date:	September 29, 2016
Project Location:	Salisbury, NC	Purge Time:	43 Minutes
Project Number:	7126-16-032A	Sample Date:	September 29, 2016
Source Well:	AB-4S	Sample Time:	15:25
Locked?:	Yes	Weather:	slight rain
Sampled By:	Jamie T. Honeycutt/Lindsey Romine	Air Temp:	67 ° F
Flow Through Cell Serial No.:	13G102143	Pump Serial No.:	900-1836
		Calibration Date:	September 29, 2016

Water Level & Well Data

Measuring Point:	Top of Casing		
Depth to Water:	6.00	ft-TOC	
Total Well Depth:	21.00	ft-TOC	
Height of Water Column:	15.00	feet	
Screen Length:	15	feet	
Stickup:	3	ft-GRD	

Well Volume		
Well Diameter	2	inch
Water Volume	2.4	Gal
3 * Well Volume	7.34	Gal
5 * Well Volume	12.24	Gal

Well Purging Information

Purge Method:	Peristaltic Pump	Start Time:	14:37	End Time:	15:20
(If Used) Bladder Pump Control Settings:	On (sec):	Off (sec):		Pressure:	
Pump Intake Depth from Top of Casing:	14	ft-TOC			
Water Column Above Pump Intake:	7.50	feet	Flow Through Cell Vol:	250	mL
DTW-TOC at 25% Drawdown of WC Above Pump:	7.88	ft-TOC	Comments:		
Final Volume Purged:	1.7	Gallons	Used YSI Pro Plus		
Final Volume Purge Rate:	150	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
14:37	0.0									Start Purging
14:45	0.3	150	6.05	24.6	6.2	328	0.2	34	50.5	
14:50	0.5	150	6.05	24.6	6.2	323	0.3	35	6.50	
14:55	0.7	150	6.05	24.6	6.1	326	0.1	32	26.6	
15:00	0.9	150	6.06	24.6	6.1	325	0.1	30	10.6	
15:05	1.1	150	6.06	24.6	6.1	325	0.1	95	4.33	
15:10	1.3	150	6.06	24.6	6.1	324	0.1	104	3.11	
15:15	1.5	150	6.06	24.7	6.1	324	0.1	108	1.36	
15:20	1.7	150	6.06	24.7	6.1	324	0.1	108	1.11	End Purging

Final: 15:20 1.7 150 6.06 24.7 6.1 324 0.1 108 1.1 End of Purging

Sample Method: Peristaltic Pump **Sample Start Time:** 15:25 **Sample End Time:** 16:40

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
Sulfate	1	PET	Zinc Acetate/ NaOH	Hex Chromium 218.7	1	PET	(NH4)2 SO4 & NH4OH

Name	Signature	Date
(1) Jamie T Honeycutt		9/29/2016
(2) Lindsey Romine		9/29/2016

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