

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station	Purge Date:	September 28, 2016
Project Location:	Salisbury, NC	Purge Time:	90 Minutes
Project Number:	7126-16-032A	Sample Date:	September 28, 2016
Source Well:	GWA-18S	Sample Time:	11:35
Locked?:	Yes	Weather:	Sunny, Warm
Sampled By:	David Klemm	Air Temp:	85 ° F
Flow Through Cell Serial No.:	16F100208	Pump Serial No.:	24711
		Calibration Date:	September 28, 2016

Water Level & Well Data

Measuring Point:		Top of Casing	
Depth to Water:	61.84	ft-TOC	
Total Well Depth:	139.90	ft-TOC	
Height of Water Column:	78.06	feet	
Screen Length:	10	feet	Stickup: 2.9 ft-GRD

Well Volume		
Well Diameter	2	inch
Water Volume	12.7	Gal
3 * Well Volume	38.22	Gal
5 * Well Volume	63.69	Gal

Well Purging Information

Purge Method:	Submersible Pump	Start Time:	10:02	End Time:	11:32
(If Used) Bladder Pump Control Settings:	On (sec):	Off (sec):		Pressure:	psi
Pump Intake Depth from Top of Casing:	135	ft-TOC			
Water Column Above Pump Intake:	73.16	feet		Flow Through Cell Vol.:	200 mL
DTW-TOC at 25% Drawdown of WC Above Pump:	80.13	ft-TOC		Comments:	
Final Volume Purged:	2.4	Gallons	Used YSI Pro Plus		
Final Volume Purge Rate:	100	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
10:02	0.0	100	65.35	18.3	6.5	563	0.8	-22	36.4	Start Purging
10:07	0.1	100	65.66	19.0	6.5	562	0.4	-26	34.8	
10:12	0.3	100	66.11	19.2	6.5	565	0.3	-25	25.9	
10:17	0.4	100	66.54	19.2	6.5	563	0.3	-24	21.1	
10:22	0.5	100	66.69	19.3	6.5	559	0.3	-20	19.2	
10:27	0.7	100	66.96	19.1	6.5	563	0.3	-22	17.8	
10:32	0.8	100	67.30	19.2	6.5	562	0.3	-21	20.1	
10:37	0.9	100	67.43	19.0	6.5	560	0.4	-23	15.9	
10:42	1.1	100	67.73	18.8	6.5	559	0.3	-24	15.2	
10:47	1.2	100	67.98	18.8	6.5	558	0.4	-25	13.8	
10:52	1.3	100	68.19	19.0	6.5	557	0.4	-25	9.60	
10:57	1.5	100	68.32	19.1	6.5	557	0.3	-24	12.1	
11:02	1.6	100	68.54	19.1	6.5	557	0.3	-24	11.1	
11:07	1.7	100	68.75	19.1	6.5	556	0.4	-24	10.6	
11:12	1.8	100	68.87	19.1	6.5	556	0.4	-22	10.3	
11:17	2.0	100	68.98	19.2	6.5	556	0.4	-22	10.3	
11:22	2.1	100	69.19	19.1	6.5	556	0.3	-23	8.8	
11:27	2.2	100	69.33	19.1	6.5	556	0.3	-24	8.0	
11:32	2.4	100	69.47	19.2	6.5	555	0.3	-25	8.1	

Final: 11:32 | 2.4 | 100 | 69.47 | 19.2 | 6.5 | 555 | 0.3 | -25 | 8.1 | End of Purging

Sample Method: Submersible Pump **Sample Start Time:** 11:35 **Sample End Time:** 12:57

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) David Klemm	_____	9/28/2016
(2) Brant Alyea	_____	9/28/2016

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