

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station	Purge Date:	September 28, 2016
Project Location:	Salisbury, NC	Purge Time:	120 Minutes
Project Number:	7126-16-032A	Sample Date:	September 28, 2016
Source Well:	GWA-15D	Sample Time:	16:35
Locked?:	Yes	Weather:	Mix of Sun/Clouds
Sampled By:	Darren Cox	Air Temp:	70s ° F
Flow Through Cell Serial No.:	15C100211	Pump Serial No.:	1519
		Calibration Date:	September 28, 2016

Water Level & Well Data

Measuring Point:		Top of Casing	
Depth to Water:	9.96	ft-TOC	
Total Well Depth:	111.00	ft-TOC	
Height of Water Column:		101.04	feet
Screen Length:	5	feet	Stickup: 2.8 ft-GRD

Well Volume		
Well Diameter	2	inch
Water Volume	16.5	Gal
3 * Well Volume	49.47	Gal
5 * Well Volume	82.44	Gal

Well Purging Information

Purge Method:		Bladder Pump		Start Time:	14:30	End Time:	16:30
(If Used)	Bladder Pump Control Settings:	On (sec):	7.5	Off (sec):	7.5	Pressure:	50 psi
Pump Intake Depth from Top of Casing:		109		ft-TOC			
Water Column Above Pump Intake:		99.04		feet			
DTW-TOC at 25% Drawdown of WC Above Pump:		34.72		ft-TOC			
Final Volume Purged:		6.8		Gallons			
Final Volume Purge Rate:		150		mL/min			
Well Purged Dry?:		No		(Yes/No)			
				Comments:			
				Used YSI Pro Plus			

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
14:30		300	10.31	17.7	7.0	118	0.2	-59	1.92	Start Purging
14:35	0.3	250	10.48	18.3	6.6	105	0.2	-35	8.83	
14:40	0.7	250	10.44	18.3	6.6	98	0.2	-21	12.5	
14:45	1.0	250	10.46	18.2	6.5	96	0.2	-13	15.1	
14:50	1.4	300	10.48	17.4	6.4	92	0.2	-9	17.4	
14:55	1.8	300	10.48	17.6	6.4	89	0.2	-7	16.0	
15:00	2.2	300	10.48	17.7	6.4	88	0.2	-6	15.5	
15:05	2.6	300	10.48	17.7	6.4	87	0.2	-3	16.1	
15:10	3.0	300	10.48	17.7	6.4	87	0.2	-3	17.5	
15:15	3.4	300	10.48	17.8	6.4	87	0.2	-2	15.3	
15:20	3.6	200	10.36	18.4	6.4	87	0.2	-1	14.7	
15:25	3.9	200	10.36	18.7	6.4	86	0.2	-1	14.1	
15:30	4.2	200	10.36	18.7	6.5	86	0.2	-1	15.1	
15:35	4.4	200	10.36	18.8	6.5	86	0.2	4	14.4	
15:40	4.7	200	10.36	18.7	6.5	86	0.2	7	13.2	
15:45	5.0	200	10.36	18.9	6.5	86	0.2	8	14.4	
15:50	5.2	200	10.36	18.6	6.5	86	0.2	10	13.9	
15:55	5.4	150	10.32	19.3	6.5	86	0.2	9	15.1	
16:00	5.6	150	10.32	19.6	6.6	86	0.2	9	16.5	
16:05	5.8	150	10.32	18.3	6.4	86	0.2	20	9.9	
16:10	6.0	150	10.32	18.3	6.3	86	0.2	25	9.9	
16:15	6.2	150	10.32	17.9	6.3	85	0.2	30	10.1	
16:20	6.4	150	10.32	18.0	6.3	85	0.2	35	11.0	
16:25	6.6	150	10.32	18.0	6.3	85	0.2	40	12.0	
16:30	6.8	150	10.32	17.8	6.3	85	0.2	45	11.6	

Final: 16:30 6.8 150 10.32 17.8 6.3 85 0.2 45 11.6 End of Purging

Sample Method: Bladder Pump **Sample Start Time:** 16:35 **Sample End Time:** 17:35

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	_____	9/28/2016
(2) Bryan Wence	_____	9/28/2016

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