

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM14	Sample Date:	6/15/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q2-2011					Sampled By 2:	JB
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	347	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	327	Feet to	347	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	337	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	845	Weather:	Air Temp	60	(°F)	Conditions:	Slight breeze, sunny
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	198.53	ft					
Water Column Height (TD-DTW):	148.47	ft					
Water volume = $\pi r^2 h$ (cf)	122.66	gallons					
3 Well Volumes:	367.97	gallons					

Well volume (in gal / LF) = $\pi r^2 (cf)$ where: π = pi (approximately 3.14); r = radius of monitoring well (feet) cf = conversion factor (7.48 gal/ft ³);					
Well ID (in)	2	3	4	4.5	5
Water Volume (gal/LF)	0.163188147	0.367173331	0.652752589	0.826139995	1.01992592

Purging:

Purge Date	6/15/11	Purge Time Begin	900	Low Flow Pump Controller Settings:	Charge Time	6	Exhaust Time	26
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	200	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	6/6/11
Volume Purged Prior to Sampling:	2.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	6/6/11
					Meter Type(3):		Meter Calibration Date:	

Field Stabilization Measurements:

Sample ID	Purge Date	Time (min.)	Purge Rate (ml/min)	Purge Rate (gal/min)	Temp (°C)	Conductivity (µmhos/cm)	DO (mg/L)	pH (su)	ORP (mV)	Turbidity (NTU)	Water Level (ft)	Comments		
PZM14-002-110615	06/15/11	925	150		13.50	1141	1.60	8.57	-179.8	7.4	199.55			
		928	150		13.41	1141	0.60	9.48	-195.3	7.9	199.58			
		931	200		13.32	1141	0.50	9.73	-190.5	6.8	199.62			
		934	200		12.97	1142	0.47	9.9	-184.8	7.2	199.67			
		937	200		12.88	1141	0.46	9.96	-189.3	17	199.70	No reason for turbidity anomaly		
		940	200		12.8	1141	0.42	10.16	-204	15.2	199.77			
		943	200		12.87	1138	0.38	10.22	-204.1	12.6	199.79			
		946	200		12.85	1137	0.39	10.2	-202.4	9.8	199.81			
		949	200		12.97	1135	0.38	10.16	-199.1	8.9	199.83			
Repeat Last Stabilization Meas.														

Sampling:

Sample Date	6/15/2011	Sample Collection Time (MT):	1000	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	6/6/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	6/6/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC08296	Lab 1	IML
Duplicate Name	MWP14-002-110615	Duplicate Sample Time	1200	COC#2:	Dup: RC08297	Lab 2	IML
				COC#3:	Blank: RC08298	Lab 3	IML

Analysis: Table 1- 4.14, Guide 8, & Radon 222

Comments: Water very foamy upon initial purge; no odor. Very slow recharge, sampled with minimal drawdown. pH suspect, did not use for stabilization factor; did not use turbidity as stabilizing factor.

The field blank sample was taken at 1100, BK-003-110615.

Stabilization Parameters

Temp	= +/- 3% in celcius
pH	= +/- 0.1 unit
SC	= +/- 3% in µmhos/cm
ORP/Eh	= +/- 10 millivolts
DO	= +/- 10% in mg/L
Turbidity	= +/- 10% for values > 5

Range values for data entry

Conductivity Range (µmhos/cm)	Turbidity (NTU)	Dissolve Oxygen (DO) (mg/L)	Temperature Range (°C)	Ox/Reduc Potential (mV)
Min 0	Min 0	Min 4	Min -20	Min -400
Max 2000	Max 1000	Max 20	Max 80	Max 600