

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM17	Sample Date:	6/1/11	Sampling Company:	TREC	Sampled By 1:	RK
Sample Event	Q2-2011					Sampled By 2:	TN
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	316	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	296	Feet to	316	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	306	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1310	Weather:	Air Temp	65	(°F)	Conditions:	Breezy, sunny
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	127.35	ft					
Water Column Height (TD-DTW):	188.65	ft					
Water volume = $\pi r^2 h$ (cf)	155.85	gallons					
3 Well Volumes:	467.55	gallons					

Well volume (in gal / LF) = πr^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	6/1/11	Purge Time Begin	1335	Low Flow Pump Controller Settings:	Charge Time	3	Exhaust Time	17.5
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	300	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	5/4/11
Volume Purged Prior to Sampling:	3	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	5/4/11
					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		
PZM17-002-110601	06/01/11	1346	300		12.69	990	0.41	10.24	-143.20	6.6	128.07			
		1349	300		12.93	991	0.27	10.39	-145.80	15.3	128.08			
		1352	300		13.07	989	0.24	10.37	-142.60	15.9	128.08			
		1355	300		13.04	988	0.21	10.34	-137.7	8.5	128.06			
		1358	300		13.07	987	0.21	10.30	-134.4	4.1	128.06			
		1401	300		13.08	987	0.21	10.28	-131.6	1.7	128.05			
		1404	300		13.22	989	0.19	10.24	-131.7	2	128.05			
		1407	300		13.32	988	0.22	10.23	-130.7	1.6	128.05			
Repeat Last Stabilization Meas.														

Sampling:

Sample Date	6/1/2011	Sample Collection Time (MT):	1415	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	5/4/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	5/4/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type Duplicate		COC#1:	RC08279	Lab 1	IML
Duplicate Name		Sample Time		COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

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

Comments:

pH suspect

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 0.01	Min -20	Min -400
Max 2000	Max 1000	Max 2000	Max 80	Max 700