

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM6	Sample Date:	8/10/11	Sampling Company:	TREC	Sampled By 1:	RM
Sample Event	Q4-2011					Sampled By 2:	RK
						Sampled By 3:	

Well Information:

Well Total Depth (TD)	359	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	335	Feet to	355	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	345	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1222	Weather:	Air Temp	77	(°F)	Conditions:	Sunny, 2 mph S
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	197.44	ft					
Water Column Height (TD-DTW):	161.56	ft					
Water volume = $\pi r^2 h$ (cf)	133.47	gallons					
3 Well Volumes:	400.41	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	8/10/11	Purge Time Begin	12:24 PM	Low Flow Pump Controller Settings:	Charge Time	5	Exhaust Time	15
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	225	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	7/20/11
Volume Purged Prior to Sampling:	1.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/8/11
					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	
PZM6-004-110810	08/10/11	12:32	225		14.93	1205	5.04	12.40	-226.2	1.0	197.97		
		12:35	225		15.45	1206	3.14	12.68	-239.8	0.9	197.99		
		12:38	225		15.30	1212	1.55	12.82	-252.9	0.8	198.04		
		12:41	225		14.18	1196	0.71	13.11	-257.2	1.0	198.12		
		12:44	225		14.08	1190	0.34	13.12	-263.9	0.5	198.24		
		12:47	200		14.95	1185	0.26	12.85	-266.4	0.7	198.27		
		12:50	200		16.37	1187	0.21	12.46	-268.5	0.6	198.30		
		12:53	200		15.65	1186	0.20	12.5	-269.4	0.6	198.30		
Repeat Last Stabilization Meas.													

Sampling:

Sample Date	8/10/2011	Sample Collection Time (MT):	12:54 PM	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	7/20/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/8/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC08342	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

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

Comments:

Charge of 5 and Exhaust of 15 yields no draw down

Strong sulfur odor

Final depth to water following sampling 199.32 feet

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