

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	PZM8	Sample Date:	3/29/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q2-2011					Sampled By 2:	JS2
						Sampled By 3:	None

### Well Information:

Well Total Depth (TD)	340	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	305	Feet to	340	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	323	ft
		Tubing Type:	Dedicated Plastic	

### Well Fluid Measurements:

Time (military):	1315	Weather:	Air Temp	39	(°F)	Conditions:	Sunny, Breezy
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	287.87	ft					
Water Column Height (TD-DTW):	52.13	ft					
Water volume = $\pi r^2 h$ (cf)	43.07	gallons					
3 Well Volumes:	129.20	gallons					

Well volume (in gal / LF) = $\pi r^2 (cf)$ where: $\pi$ = pi (approximately 3.14); $r$ = radius of monitoring well (feet) cf = conversion factor (7.48 gal/ft <sup>3</sup> );					
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	3/29/11	Purge Time Begin	1355	Low Flow Pump Controller Settings:	Charge Time	9	Exhaust Time	30
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	200	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	3/21/11
Volume Purged Prior to Sampling:	1.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	3/21/11
					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
PZM8-002-110329	03/29/11	1400	200		14.42	1317	9.26	6.52	130.4	7.20	287.85	
		1403	200		11.40	1374	1.15	7.54	-32.6	5.80	287.88	
		1406	200		10.88	1467	0.69	7.89	-103.9	3.20	287.87	
		1409	200		10.89	1485	0.55	8	-123.6	2.7	287.88	
		1412	200		11.23	1497	0.46	8.05	-135.9	2.6	287.87	
		1415	200		12.1	1530	0.4	8.08	-143.4	3.3	287.87	
		1418	200		12.14	1531	0.37	8.09	-147.9	3.9	287.87	
		1421	200		12.33	1540	0.35	8.1	-151	4.1	287.87	
		1424	200		11.84	1521	0.34	8.11	-152	3.1	287.87	
		1427	200		11.68	1516	0.32	8.11	-151.5	2.8	287.87	
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	3/29/2011	Sample Collection Time (MT):	1430	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	3/21/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	3/21/11
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type Duplicate	None	COC#1:	RC08265	Lab 1	IML
Duplicate Name		Sample Time		COC#2:		Lab 2	
				COC#3:		Lab 3	

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

Comments:

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