

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	PZM14	Sample Date:	8/31/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q3-2011					Sampled By 2:	WC
						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):	1340	Weather:	Air Temp	100	(°F)	Conditions:	Windy and very, very hot
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	198.48	ft					
Water Column Height (TD-DTW):	148.52	ft					
Water volume = $\pi r^2 h$ (cf)	122.70	gallons					
3 Well Volumes:	368.09	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	8/31/11	Purge Time Begin	1345	Low Flow Pump Controller Settings:	Charge Time	4	Exhaust Time	26
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	200	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	8/15/11
Volume Purged Prior to Sampling:	1.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/11/11
					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
PZM14-003-110831	08/31/11	1350	200		17.58	1151	4.32	7.80	-53.6	3.3	199.26	
		1353	200		17.49	1148	2.50	8.88	-157.3	3.6	199.33	
		1356	200		17.21	1144	2.03	9.16	-167.4	2.7	199.40	
		1359	200		17.15	1145	0.6	9.21	-166.7	2.5	199.50	
		1402	200		16.03	1148	0.59	9.34	-163.6	2.5	199.56	
		1405	200		15.88	1144	0.52	9.37	-160.5	2.4	199.61	
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	8/31/11	Sample Collection Time (MT):	1415	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	8/15/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/11/11
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC08371	Lab 1	IML
Duplicate Name		Duplicate Sample Time	1200	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