

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	PZM7	Sample Date:	7/28/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q1-2011					Sampled By 2:	WC
						Sampled By 3:	

### Well Information:

Well Total Depth (TD)	318	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	298	Feet to	318	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	308	ft
		Tubing Type:	Non-dedicated Plastic	

### Well Fluid Measurements:

Time (military):	1010	Weather:	Air Temp	73	(°F)	Conditions:	Sunny, slight breeze
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	184.05	ft					
Water Column Height (TD-DTW):	0	ft					
Water volume = $\pi r^2 h$ (cf)	0.00	gallons					
3 Well Volumes:	0.00	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	7/28/11	Purge Time Begin	1110	Low Flow Pump Controller Settings:	Charge Time	8	Exhaust Time	22
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	300	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:	7/7/11
					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
PZM7-001-110728	07/28/11	1133	300		24.16	1028	4.64	12.11	55.7	7.7	184.74	
		1136	300		23.29	1200	2.65	12.41	38.9	9.6	184.78	
		1139	300		22.76	1245	1.69	12.40	42.9	8.7	184.79	
		1142	300		22.39	1240	1.67	12.22	57.7	10.1	184.81	
		1145	300		22.28	1250	1.53	12.05	69.5	8.4	184.84	
		1148	300		22.21	1284	2.36	11.94	69.4	8	184.88	
		1151	300		22.07	1291	2.05	11.92	66.6	7.9	184.90	
		1154	300		21.92	1291	1.97	11.88	66.4	6.6	184.92	
		1157	300		21.88	1293	1.86	11.86	66.4	7.1	184.93	
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	7/28/2011	Sample Collection Time (MT):	1200	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	7/20/11
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	7/7/11
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	Yes	QA/QC Type	Duplicate	COC#1:	RC08325	Lab 1	IML
Duplicate Name	MWP7-001-110728	Duplicate Sample Time	1300	COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

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

Comments: Stabilization and drawdown not a factor as per client request; pH very high due to recent well completion

Stabilization Parameters
Temp = +/- 3% in celsius
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 (mS/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