

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	OM3	Sample Date:	7/22/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q1-2011					Sampled By 2:	WC
						Sampled By 3:	

### Well Information:

Well Total Depth (TD)	170	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	150	Feet to	170	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	160	ft
		Tubing Type:	Non-Dedicated Plastic	

### Well Fluid Measurements:

Time (military):	1430	Weather:	Air Temp	100	(°F)	Conditions:	Sunny and very hot with a slight breeze
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	138.13	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	7/22/11	Purge Time Begin	1615	Low Flow Pump Controller Settings:	Charge Time	5	Exhaust Time	25
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:	2	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	
OM3-001-110722	07/22/11	1625	300		32.17	589	0.84	12.07	-8.5	45.9	139.15		
		1628	300		31.27	584	1.01	11.89	-8.2	42.3	139.30		
		1631	300		30.49	581	1.06	11.79	6.8	39.0	139.58		
		1634	300		30.35	575	0.89	11.53	26	37.1	139.78		
		1637	300		30.19	575	0.85	11.47	35.9	33.3	140.00		
		1640	300		29.86	569	0.83	11.4	43	31.4	140.23		
		1643	300		29.42	562	0.54	11.34	50.4	29.5	140.37		
Repeat Last Stabilization Meas.													

### Sampling:

Sample Date	7/22/2011	Sample Collection Time (MT):	1645	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	No	QA/QC Type		COC#1:	RC08331	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: Per client request sample with drawdown due to slow recharge; high pH due to recent well completion

### 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