

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	OM5	Sample Date:	6/7/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q3-2011					Sampled By 2:	RK
						Sampled By 3:	None

### Well Information:

Well Total Depth (TD)	84	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	69	Feet to	84	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	76	ft
		Tubing Type:	Dedicated Plastic	

### Well Fluid Measurements:

Time (military):	930	Weather:	Air Temp	63	(°F)	Conditions:	Very windy, sunny
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	37.6	ft				psi 50	
Water Column Height (TD-DTW):	46.4	ft					
Water volume = $\pi r^2 h$ (cf)	38.33	gallons					
3 Well Volumes:	115.00	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	6/7/11	Purge Time Begin	940	Low Flow Pump Controller Settings:	Charge Time	2	Exhaust Time	20
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	200	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	6/6/11
Volume Purged Prior to Sampling:	1.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	6/6/11
					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		
OM5-003-110607	06/07/11	945	200		12.31	1767	4.09	9.32	-162.7	2.30	37.95			
		948	200		12.52	1767	4.05	9.54	-162.8	2.00	37.95			
		951	200		12.36	1767	3.76	9.74	-159.0	2.60	37.96			
		954	200		12.41	1768	3.37	9.85	-157.1	1.8	37.97			
		957	200		12.34	1769	3.2	9.95	-155	1.8	37.98			
		1000	200		12.36	1768	3.06	9.98	-154.2	1.3	37.98			
Repeat Last Stabilization Meas.														

### Sampling:

Sample Date	6/7/2011	Sample Collection Time (MT):	1000	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	6/6/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	6/6/11
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type Duplicate	None	COC#1:	RC08285	Lab 1	IML
Duplicate Name		Sample Time		COC#2:		Lab 2	ALS
				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