

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	UM3R	Sample Date:	5/8/12	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q4-2012					Sampled By 2:	WC
						Sampled By 3:	

### Well Information:

Well Total Depth (TD)	480	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	460	Feet to	480	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	470	ft
		Tubing Type:	N/A	

### Well Fluid Measurements:

Time (military):	7:45	Weather:	Air Temp	47	(°F)	Conditions:	Sunny, slight breeze
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	318.88	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	5/8/12	Purge Time Begin	8:00	Low Flow Pump Controller Settings:	Charge Time	7	Exhaust Time	23
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	200	gal/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	4/30/12
Volume Purged Prior to Sampling:	2.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	5/7/12
					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		
UM3R-004-120508	05/08/12	8:20	200		11.40	1316	4.53	10.97	-56.1	1.5	320.68			
		8:23	200		11.12	1319	2.18	11.11	-136.1	1.1	320.86			
		8:26	200		11.16	1319	1.60	11.11	-180.2	1.1	321.02			
		8:29	200		11.2	1319	1.31	11.12	-202.7	1.3	321.16			
		8:32	200		11.22	1316	1.07	11.13	-228.1	1.8	321.34			
		8:35	200		11.24	1312	1.01	11.13	-239.7		321.46	Turb. Meter malfunction		
		8:38	200		11.27	1302	0.92	11.13	-248.6		321.65			
Repeat Last Stabilization Meas.														

### Sampling:

Sample Date	5/8/2012	Sample Collection Time (MT):	8:45
Sample Pump Type:	Dedicated Low Flow Bladder	Meter Type(1):	YSI Multi
		Meter 1 Calibration Date:	4/20/12
		Meter Type(2):	Hach Turbidity
		Meter 2 Calibration Date:	5/7/12
		Meter Type(3):	
		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08470	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:

High pH. Slow recharge-sampled with minimal draw down. Turbidity meter malfunction-sampled without last two readings since it had stabilized.

### 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 (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