

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	OM7	Sample Date:	2/1/12	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q4-2012					Sampled By 2:	WC
						Sampled By 3:	

### Well Information:

Well Total Depth (TD)	150	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	130	Feet to	150	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	140	ft
		Tubing Type:	Dedicated Plastic	

### Well Fluid Measurements:

Time (military):	8:45	Weather:	Air Temp	25	(°F)	Conditions:	Breezy, sunny
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	127.46	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) = $\pi r^2 h$ 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	2/1/12	Purge Time Begin	8:50	Low Flow Pump Controller Settings:	Charge Time	3	Exhaust Time	27
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	200	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	1/24/12
Volume Purged Prior to Sampling:	2	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	1/24/12
					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
OM7-004-120201	02/01/12	9:05	200		8.29	1671	5.28	9.94	83.6	1.2	128.65	
		9:08	200		8.16	1687	2.87	10.17	5.8	1.4	128.87	
		9:11	200		8.06	1688	2.23	10.19	-21.7	1.1	128.94	
		9:14	200		8.23	1680	2.16	10.2	-53.1	0.7	129.03	
		9:17	200		8.18	1682	2.04	10.21	-66.2	0.9	129.09	
		9:20	200		7.99	1687	1.91	10.24	-103	0.9	129.13	
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	2/1/2012	Sample Collection Time (MT):	9:30	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	1/24/12
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	1/24/12
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type Duplicate	Non	COC#1:	RC08183	Lab 1	IML
Duplicate Name		Sample Time		COC#2:		Lab 2	ALS
				DUP		Lab 3	IML

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

Comments: ORP not stabilizing, did not use as factor. High pH suspect. Slow recharge so sampled with minimal draw down.

### 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