

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM2	Sample Date:	2/2/12	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q4-2012					Sampled By 2:	WC
						Sampled By 3:	

Well Information:

Well Total Depth (TD)	443	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	423	Feet to	443	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	433	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	8:00	Weather:	Air Temp	24	(°F)	Conditions:	Overcast, slight breeze, wind speed 7 mph
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	314.89	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: π = pi (approximately 3.14); r = radius of monitoring well (feet) cf = conversion factor (7.48 gal/ft ³);					
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	2/2/12	Purge Time Begin	8:10	Low Flow Pump Controller Settings:	Charge Time	10	Exhaust Time	20
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	290	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	1/24/12
Volume Purged Prior to Sampling:	3	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
UM2-004-120202	02/02/12	8:35	290		8.04	1065	6.56	10.72	90.6	2.7	316.74	
		8:38	290		8.03	1067	4.71	10.70	85.4	2.1	316.85	
		8:41	290		8.03	1069	4.18	10.69	83.7	2.6	316.93	
		8:44	290		8.04	1064	3.71	10.70	80.2	5.5	317.01	
		8:47	290		8.03	1060	3.52	10.71	78.3	6.0	317.25	
		8:50	290		8.04	1053	3.10	10.73	74.1	4.7	317.44	
		8:53	290		7.94	1050	2.86	10.75	70.7	3.7	317.66	
		8:56	290		7.93	1049	2.78	10.72	70.7	3.6	317.82	
		8:59	290		8.01	1046	2.68	10.71	68.6	3.4	317.90	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	2/2/2012	Sample Collection Time (MT):	9:00	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		COC#1:	RC08186	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:
Took a long time to get water due to depth. High pH suspect. Slow recharge so sampled with minimal draw down.
Final water level 321.45

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