

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM3	Sample Date:	12/15/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q3-2011					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:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	830	Weather:	Air Temp	22	(°F)	Conditions:	Sunny, breezy
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	136.48	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	12/15/11	Purge Time Begin	850	Low Flow Pump Controller Settings:	Charge Time	4	Exhaust Time	26
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	250	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/14/11
Volume Purged Prior to Sampling:	2.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	11/5/11
					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
OM3-003-111215	12/15/11	9:05	250		7.34	642	5.13	12.01	15.5	3.3	137.60	
		9:08	250		7.26	645	1.56	11.91	-29.9	3.9	137.86	
		9:11	250		7.04	645	1.30	11.86	-45.6	3.3	138.00	
		9:14	250		6.96	645	1.02	11.85	-60.8	3.9	138.20	
		9:17	250		7.09	645	0.98	11.88	-67.6	4.0	138.40	
		9:20	250		7.03	644	0.92	11.89	-71.9	3.9	138.54	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	12/15/2011	Sample Collection Time (MT):	930	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/14/11
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	11/5/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08154	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: Purged line of one gallon prior to stabilizing parameters; very high pH; little to no recharge so sampled with minimal drawdown

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