

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM7	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)	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):	12:10	Weather:	Air Temp	32	(°F)	Conditions:	Sunny, windy
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	127.26	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) = πr^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	12:30	Low Flow Pump Controller Settings:	Charge Time	3	Exhaust Time	27
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	210	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/14/11
Volume Purged Prior to Sampling:	2	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		
OM7-003-111215	12/15/11	12:50	210		8.36	1671	4.45	10.96	58.8	3.2	129.90			
		12:53	210		8.68	1676	3.08	11.05	15.4	3.6	129.10			
		12:56	210		8.67	1674	2.20	11.04	-2.7	3.8	129.25			
		12:59	210		8.67	1678	3.06	11.04	-18.0	3.2	129.40			
		13:02	210		8.77	1674	3.08	11.03	-28.3	3.3	129.58			
		13:08	210		8.73	1675	3.15	11.04	-30.9	3.0	129.67			
Repeat Last Stabilization Meas.														

Sampling:

Sample Date	12/15/2011	Sample Collection Time (MT):	1315
Sample Pump Type:	Dedicated Low Flow Bladder	Meter Type(1):	YSI Multi
		Meter 1 Calibration Date:	10/14/11
		Meter Type(2):	Hach Turbidity
		Meter 2 Calibration Date:	11/5/11
		Meter Type(3):	
		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	Yes	QA/QC Type	Duplicate	COC#1:	RC08157	Lab 1	IML
Duplicate Name	MWO7-007-111215	Duplicate Sample Time		COC#2:		Lab 2	ALS
				DUP	RC08158	Lab 3	IML

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

Comments: Discovered (heard) down-well water line leak early on; pulled pump, found and repaired the leak then re-installed the pump/line; purged one gallon prior to stabilization in order to flush/clean line; little to no recharge so sampled with minimal drawdown; high pH

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