

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM1	Sample Date:	11/11/10	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q1-2010					Sampled By 2:	JS2
						Sampled By 3:	RD

Well Information:

Well Total Depth (TD)	211	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	191	Feet to	211	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	201	ft
		Tubing Type:	Non-dedicated Plastic	

Well Fluid Measurements:

Time (military):	1306	Weather:	Air Temp	31	(°F)	Conditions:	Sunny, No wind
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	179.6	ft					
Water Column Height (TD-DTW):	31.4	ft					
Water volume = $\pi r^2 h$ (cf)	25.94	gallons					
3 Well Volumes:	77.82	gallons					

Purging:

Purge Date	11/11/10	Purge Time Begin	1325	Low Flow Pump Controller Settings:	Charge Time	9	Exhaust Time	25
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	350	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/19/10
Volume Purged Prior to Sampling:	3.75	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	11/11/10
					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 (mS/cm)	DO (mg/L)	pH (su)	ORP (mV)	Turbidity (NTU)	Water Level (ft)	Comments
OM1	11/11/10	1336	350		9.05	1.784	0.99	7.63	80.00	13.00	180.23	
		1339	350		9.30	1.777	0.90	7.62	60.80	14.10	180.23	
		1342	350		9.36	1.786	1.30	7.62	45.90	16.40	180.22	
		1345	350		9.14	1.769	1.2	7.61	40.3	14.7	180.22	
		1348	350		9.31	1.755	1.19	7.61	35	15.2	180.23	
		1351	350		9.42	1.697	0.79	7.63	28.2	15	180.25	
		1354	350		9.47	1.674	0.83	7.62	26.6	12.7	180.25	
		1357	350		9.4	1.647	0.9	7.62	24.5	12.2	180.25	
		1400	350		8.97	1.618	0.1	7.62	23.2	12.2	180.23	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	11/11/2010	Sample Collection Time (MT):	1402	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/19/10
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	11/11/10
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	007	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:	007-R	Lab 2	ALS
				COC#3:		Lab 3	

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

Comments:

Stabilization Parameters
Temp = +/- 3% in celsius
pH = +/- 0.1 unit
SC = +/- 3% in $\mu\text{mhos/cm}$
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