

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM3	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)	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:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	160	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	10:50	Weather:	Air Temp	32	(°F)	Conditions:	Overcast, wind speed 9 mph
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	136.35	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	2/1/12	Purge Time Begin	10:55	Low Flow Pump Controller Settings:	Charge Time	4	Exhaust Time	26
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	150	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
OM3-004-120201	02/01/12	11:00	150		8.05	561	8.71	11.24	75.0	3.1	136.73	
		11:03	150		8.15	605	7.70	11.38	53.1	3.0	136.83	
		11:06	150		8.19	609	6.78	11.39	44.2	3.0	136.90	
		11:09	150		8.17	608	7.04	11.4	32.8	3.5	136.99	
		11:12	150		8.14	635	4.94	11.45	-21.3	4.1	137.10	
		11:15	150		8.13	637	4.25	11.45	-35.6	4.0	137.14	
		11:18	150		8.15	639	3.76	11.46	-42.5	3.7	137.18	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	2/1/2012	Sample Collection Time (MT):	11:15
Sample Pump Type:	Dedicated Low Flow Bladder	Meter Type(1):	YSI Multi
		Meter 1 Calibration Date:	1/24/12
		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:	RC08184	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: ORP did not stabilize so did not use as factor. High pH suspect. Slow recharge so sampled with minimal draw down

Final water level 140.52

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