

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM18	Sample Date:	8/10/11	Sampling Company:	TREC	Sampled By 1:	RM
Sample Event	Q3-2011					Sampled By 2:	RK
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	270	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	250	Feet to	270	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	260	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	820	Weather:	Air Temp	54	(°F)	Conditions:	Partly cloudy with no wind
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	163.34	ft					
Water Column Height (TD-DTW):	106.66	ft					
Water volume = $\pi r^2 h$ (cf)	88.12	gallons					
3 Well Volumes:	264.35	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	8/10/11	Purge Time Begin	8:20 AM	Low Flow Pump Controller Settings:	Charge Time	3	Exhaust Time	27
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	150	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	7/20/11
Volume Purged Prior to Sampling:	1.05	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/8/11
					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
PZM18-004-110810	08/10/11	8:28	150		12.03	1138	8.74	10.27	52.5	1.1	163.74	
		8:31	150		11.72	1154	6.83	10.82	9.6	1.2	163.83	
		8:34	150		11.80	1170	2.45	10.97	-16.8	1.3	163.95	
		8:37	150		11.85	1170	1.8	10.9	-16.4	1.2	164.02	
		8:40	150		11.79	1168	1.26	10.73	-15.2	1.2	164.12	
		8:43	150		12.03	1166	1.15	10.67	-15.6	1.3	164.19	
		8:46	150		12.23	1164	1.09	10.65	-16.4	1.2	164.24	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	8/10/2011	Sample Collection Time (MT):	8:49 AM	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	7/20/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/8/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC08345	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:

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 4	Min -20	Min -400
Max 2000	Max 1000	Max 20	Max 80	Max 600