The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM7	Sample Date:	12/20/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	WC
Sample Event	Q3-2011					Sampled By 3:	

Well Information:

Well Total Depth (TD)	318	ft			Well Measuring Point (MP) Location:		North Side-Marked		
Sampled From:	Monitoring Well		Well Inside Diameter:	4.5	inches	Pump Type Used:	Dedicated Low Flow Bladder		
Screened Interval:	298	Feet to	318	Feet		Pump Intake Depth:	308	ft	Tubing Type: Dedicated Plastic

Well Fluid Measurements:

Time (military):	1045	Weather:	Air Temp	32	(°F)	Conditions:	Sunny and breezy

Water level gauged using:	Electronic tape	ft
Depth to Water (DTW) below MP:	185.25	ft
Water Column Height (TD-DTW):	0	ft
Water volume = pr^2h (cf)	0.00	gallons
3 Well Volumes:	0.00	gallons

Well volume (in gal / LF) = pr2 (cf) where: p = pi (approximately 3.14); r = radius of monitoring well (feet)
cf = conversion factor (7.48 gal/ft3);

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	12/20/11	Purge Time Begin	1100		Low Flow Pump Controller Settings:		Charge Time	4	Exhaust Time 26
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	350	ml/min		Meter Type(1):	YSI Multi	Meter Calibration Date:	12/19/11
Volume Purged Prior to Sampling:	2.5	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:	12/19/11
						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
PZM7-003-111220	12/20/11	11:10	350		9.26	1155	7.20	11.45	50.4	30.3	185.02	
		11:13	350		9.60	2290	1.77	11.94	-6.4	29.0	185.07	
		11:16	350		9.62	2846	1.45	12.05	-23.7	15.0	185.14	
		11:19	350		9.58	2929	1.18	12.09	-35.2	10.0	185.16	
		11:22	350		9.58	2915	1.12	12.10	-38.5	25.0	185.21	
		11:25	350		9.75	2839	0.97	12.11	-43.7	30.0	185.23	
		11:28	350		9.70	2773	0.94	12.12	-43.6	18.0	185.24	
		11:31	350		9.75	2774	0.89	12.13	-42.8	10.0	185.26	
		11:33	350		9.74	2831	0.79	12.14	-41.0	9.0	185.28	
		11:36	350		9.72	2843	0.73	12.14	-41.1	8.1	185.30	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	12/20/2011	Sample Collection Time (MT):	1145				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	12/19/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	12/19/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample		QA/QC Type		COC#1:	RC08159	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 one gallon prior to stabilization in order to flush lines; developed a leak down well so pulled pump and discovered freeze-plug line wasn't connected; reconnected that line then reinstalled pump; collar on top of screen made installation difficult. high pH, conductivity and turbidity due to re-installing pump; could not stabilize cond & turb, so did not use as factor

Stablization 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