The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM4	Sample Date:	2/17/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	JS2
Sample Event	Q1-2011					Sampled By 3:	None

Well Information:

Well Total Depth (TD)	193	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:	173	Feet to	193	Feet		Pump Intake Depth:	183	ft	Tubing Type: Dedicated Plastic

Well Fluid Measurements:

Time (military):	1145		Weather:	Air Temp	35	(°F)	Conditions:	Very Windy, Cold
Water level gauged using:		Electronic tape	ft					
Depth to Water (DTW) below MP:		155.88	ft					
Water Column Height (TD-DTW):		37.12	ft					
Water volume = pr^2h (cf)		30.67	gallons					
3 Well Volumes:	92.00	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	2/17/11		Purge Time Begin	1200		Low Flow Pump Controller Settings:		Charge Time	5	Exhaust Time	20
Purge Pump Type:	Dedicated Low Flow Bladder		Pumping Rate:	150	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:		1/26/11	
Volume Purged Prior to Sampling:	3.5	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:		2/15/11	
						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
UM4-001-110217	02/17/11	1205	200		8.46	686	0.68	7.34	209.8	9.8	157.97	
		1208	200		8.35	683	0.43	7.68	196.5	10.3	158.15	
		1211	150		8.81	689	0.34	7.83	184.0	10.3	158.38	
		1214	200		8.62	714	0.29	7.92	105.6	10.4	158.59	
		1217	150		8.58	755	0.3	7.88	-21.4	10.2	158.73	
		1220	150		8.55	830	0.28	7.8	-73.1	13.8	158.84	
		1223	150		8.5	950	0.25	7.69	-114.7	14.6	158.96	
		1226	150		8.12	1042	0.24	7.62	-137.9	13.4	159.06	
		1229	150		8.35	1106	0.2	7.56	-153.7	9.38	159.19	
		1232	150		8.28	1156	0.19	7.54	-164.8	8.28	159.37	
		1235	150		8.57	1194	0.19	7.53	-171.3	6.27	159.46	
		1238	150		8.54	1231	0.19	7.51	-179.9	4.82	159.58	
		1241	150		8.57	1258	0.19	7.51	185.6	4.03	159.71	
		1244	150		8.64	1271	0.19	7.5	-189	3.53	159.75	
		1247	150		8.55	1281	0.19	7.5	-193.5	2.93	159.95	
		1250	150		8.24	1277	0.19	7.5	-197.1	2.39	159.95	
		1253	150		8.25	1288	0.18	7.5	-199.5	2.05	160.04	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	2/17/2011	Sample Collection Time (MT):	1300				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	1/26/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	2/15/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08009	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:

Strong odor of methane, very foamy

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 (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