

Table D6-4 Water Quality Results for Seven Storm Water/Spring Snowmelt Samples Collected on 17 April 2007 (Page 1 of 3)

Laboratory Analysis Report - UR Energy Project Sample ID: Lab ID: Sample Matrix: Sample Date: Report Date:				LC1	LC2	LC4	LC5	LC10	LC11	LC12
				C07040912-001	C07040912-002	C07040912-003	C07040912-004	C07040912-005	C07040912-006	C07040912-007
				Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater
				4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007
				6/5/2007	6/5/2007	6/5/2007	6/5/2007	6/5/2007	6/5/2007	6/5/2007
Major Ions-Dissolved		Units	Detection Limit	Results	Results	Results	Results	Results	Results	Results
Calcium	Ca	mg/L	1.0	2.8	5.6	3.3	5.5	3.3	5.2	7.4
Magnesium	Mg	mg/L	1.0	0.9	1.5	0.9	1.6	0.6	1.3	1
Sodium	Na	mg/L	1.0	1.1	1.1	0.8	1.2	1.4	1	1
Potassium	K	mg/L	1.0	4.1	6.2	5	7.8	8.4	9.4	3.4
Carbonate	CO ₃	mg/L	1.0	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	HCO ₃	mg/L	1.0	12	27	17	30	29	15	24
Sulfate	SO ₄	mg/L	1.0	3	3	3	5	13	6	6
Chloride	CL	mg/L	1.0	2	1	1	2	1	2	<1
Ammonia as N	NH ₃	mg/L	0.05	0.46	0.6	0.55	1.11	8.7	0.86	0.41
Nitrite as N	NO ₂	mg/L	0.10	<0.1	<0.1	<0.1	<0.1	0.3	0.2	<0.1
Nitrite + Nitrate as N	NO ₂ +NO ₃	mg/L	0.10	0.3	0.3	0.3	<0.1	0.7	0.6	0.9
Fluoride	F	mg/L	0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silica	SiO ₂	mg/L	1.0	6.9	9.9	7.1	14.5	0.9	1.1	3.9
Trace Metals-Dissolved										
Aluminum	Al	mg/L	0.10	0.3	0.7	0.6	0.6	<0.1	0.2	0.7
Arsenic	As	mg/L	0.001	0.002	0.003	0.002	0.006	0.002	0.002	0.001
Barium	Ba	mg/L	0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Boron	B	mg/L	0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	Cd	mg/L	0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	Cr	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Copper	Cu	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron	Fe	mg/L	0.05	0.66	0.76	0.66	1.26	0.04	0.17	0.35
Lead	Pb	mg/L	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Manganese	Mn	mg/L	0.01	0.03	0.01	0.07	0.4	0.07	0.13	0.04
Mercury	Hg	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	Mo	mg/L	0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	Ni	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium	Se	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.004	<0.001
Silver	Ag	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	V	mg/L	0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	Zn	mg/L	0.01	0.07	0.04	0.05	0.03	0.22	0.13	0.08

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				Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater
				4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007
				6/5/2007	6/5/2007	6/5/2007	6/5/2007	6/5/2007	6/5/2007	6/5/2007
Major Ions-Dissolved		Units	Detection Limit	Results	Results	Results	Results	Results	Results	Results
Trace Metals-Total										
Aluminum	Al	mg/L	0.10	0.5	1.4	1.6	2.7	0.1	0.3	0.8
Arsenic	As	mg/L	0.001	0.001	0.002	<0.001	0.004	<0.001	<0.001	<0.001
Barium	Ba	mg/L	0.10	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Boron	B	mg/L	0.10	0.6	1	0.8	0.4	0.7	0.8	1.2
Cadmium	Cd	mg/L	0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	Cr	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Copper	Cu	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron	Fe	mg/L	0.05	0.24	0.54	0.29	1.83	0.06	0.21	0.17
Lead	Pb	mg/L	0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Manganese	Mn	mg/L	0.01	0.04	0.13	0.08	1.45	0.06	0.13	0.03
Mercury	Hg	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	Mo	mg/L	0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	Ni	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium	Se	mg/L	0.001	0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Silver	Ag	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	V	mg/L	0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	Zn	mg/L	0.01	0.06	0.03	0.05	0.08	0.22	0.13	0.09

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Laboratory Analysis Report - UR Energy Project			Sample Matrix:	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater
			Sample Date:	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007	4/17/2007
			Report Date:	6/5/2007	6/5/2007	6/5/2007	6/5/2007	6/5/2007	6/5/2007	6/5/2007
Radiometric-Dissolved										
Uranium	NatU	mg/L	0.0003	<0.0003	0.0004	<0.0003	0.0003	<0.0003	<0.0004	<0.0003
Lead 210	Pb	pCi/L	2.2	<2.4	<2.2	<2.2	<2.5	<2.2	<2.3	<2.2
Polonium 210	Po	pCi/L	2.2	<2.4	<2.2	<2.2	<2.5	<2.2	<2.3	<2.2
Thorium230	Th	pCi/L	0.4	<0.5	<0.4	<0.4	<0.5	<0.4	<0.5	<0.4
Radiometric-Suspended										
Uranium	NatU	mg/L	0.0003	<0.0003	0.0005	<0.0003	0.0006	<0.0003	<0.0003	<0.0003
Lead 210	Pb	pCi/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Polonium 210	Po	pCi/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thorium230	Th	pCi/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
226Radium	226Ra	pCi/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Radiometric-Total										
Uranium	NatU	mg/L	0.0003	0.0003	0.0008	0.0003	0.0009	<0.0003	<0.0003	<0.0003
226Radium	NatU	pCi/L	0.2	<0.2	0.5	<0.2	<0.2	<0.2	<0.2	<0.2
228Radium	NatU	pCi/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Gross Alpha minus Rn & U	226Ra	pCi/L	1	1.3	3.6	1.4	2.6	1.2	<1.0	1.1
Gross Beta	a	pCi/L	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Quality Assurance Data			Target Range							
Anion	-	meq/L		0.355	0.571	0.377	0.655	0.823	0.486	0.609
Cation	-	meq/L		0.462	0.766	0.537	0.881	1.12	0.748	0.698
WYDEQ A/C Balance	-	%	-5 to +5	13	14.6	17.4	14.7	15.2	21.3	6.82
Calc TDS	-	mg/L		29	43	30	52	46	37	40
Non-Metals										
pH	S.U.	std. units	0.01	7.1	6.86	6.66	6.83	7.12	6.41	6.39
Conductivity	Cond.	µmho/cm	1.0	36.4	57.3	40.5	64.5	100	66.4	62.6
Total Suspended Solids @ 105°C	TSS	mg/L	1.0	36	422	24	5280	4	14	9
Alkalinity as CaCO3	Alk.	mg/L	1.0	10	22	14	25	24	12	20