

Water Security Agency

Land Location:	SE-09-22-02-10W2	NTS Map:	62E/03
UTM Coordinates:	Z13 627304 E 5444334 N	RM No.:	6
Ground Elevation:		Source:	
Date Sampled:	23-Jun-70	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Outram (SRC-2)	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	112.8	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	3233	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Estevan Valley aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	36	Aluminum (Al)	
Magnesium (Mg)	10	Antimony (Sb)	
Sodium (Na)	423	As (arsenic) (µg/L)	
Potassium (K)	8	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	1030	Boron (B)	
Sulphate (SO4)	0	Cadmium (Cd)	
Chloride (Cl)	171	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)		Copper (Cu)	
Total Iron (Fe)	2.3	Lead (Pb)	
Manganese (Mn)		Molybdenum (Mo)	
pH (pH units)	7.9	Nickel (Ni)	
Conductivity (uS/cm)	1950	Selenium (Se)	
Sum of Ions	1678	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	131	Tin (Sn)	
Total Alkalinity (as CaCO3)	131	Titanium (Ti)	
		Uranium (U) (µg/L)	
Dissolved Organic Carbon (DOC)		Vanadium (V)	
Turbidity (NTU)		Zinc (Zn)	
Perchlorate			
Iodine (I)			

All values in mg/L, unless indicated otherwise

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Land Location:	SE-09-22-02-10W2	NTS Map:	62E/03
UTM Coordinates:	Z13 627304 E 5444334 N	RM No.:	6
Ground Elevation:		Source:	
Date Sampled:	8-Aug-84	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Outram (SRC-2)	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	112.8	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	3233	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Estevan Valley aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	36	Aluminum (Al)	
Magnesium (Mg)	14	Antimony (Sb)	
Sodium (Na)	412	As (arsenic) (µg/L)	
Potassium (K)	5.6	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	1020	Boron (B)	
Sulphate (SO4)	2	Cadmium (Cd)	
Chloride (Cl)	174	Chromium (Cr)	
Fluoride (F)	1.1	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.02	Copper (Cu)	
Total Iron (Fe)	1.9	Lead (Pb)	
Manganese (Mn)	0.05	Molybdenum (Mo)	
pH (pH units)	8.19	Nickel (Ni)	
Conductivity (uS/cm)	1930	Selenium (Se)	
Sum of Ions	1664	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	141	Tin (Sn)	
Total Alkalinity (as CaCO3)	836	Titanium (Ti)	
		Uranium (U) (µg/L)	
Dissolved Organic Carbon (DOC)		Vanadium (V)	
Turbidity (NTU)		Zinc (Zn)	
Perchlorate			
Iodine (I)	1.4		

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Land Location:	SE-09-22-02-10W2	NTS Map:	62E/03
UTM Coordinates:	Z13 627304 E 5444334 N	RM No.:	6
Ground Elevation:		Source:	
Date Sampled:	26-Oct-05	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Outram (SRC-2)	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	112.8	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	3233	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Estevan Valley aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	29	Aluminum (Al)	0.0007
Magnesium (Mg)	13	Antimony (Sb)	< 0.0002
Sodium (Na)	424	As (arsenic) (µg/L)	0.014
Potassium (K)	6.3	Barium (Ba)	0.81
Carbonate (CO3)	10	Beryllium (Be)	< 0.0001
Bicarbonate (HCO3)	1020	Boron (B)	0.25
Sulphate (SO4)	6.8	Cadmium (Cd)	< 0.0005
Chloride (Cl)	174	Chromium (Cr)	< 0.005
Fluoride (F)	0.89	Cobalt (Co)	0.0005
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.04	Copper (Cu)	< 0.0002
Total Iron (Fe)	1.9	Lead (Pb)	< 0.0001
Manganese (Mn)	0.04	Molybdenum (Mo)	0.034
pH (pH units)	8.33	Nickel (Ni)	0.0005
Conductivity (uS/cm)	1950	Selenium (Se)	0.0001
Sum of Ions	1683	Silver (Ag)	< 0.0001
Total Dissolved Solids (TDS)	1220	Strontium (Sr)	0.48
Error in Balance (%)		Thallium (Tl)	< 0.0002
Hardness (as CaCO3)	126	Tin (Sn)	0.0001
Total Alkalinity (as CaCO3)	854	Titanium (Ti)	
		Uranium (U) (µg/L)	0.0002
Dissolved Organic Carbon (DOC)		Vanadium (V)	0.0002
Turbidity (NTU)	2.5	Zinc (Zn)	0.073
Perchlorate			
Iodine (I)	0.94		

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