

Water Security Agency

Land Location:	NE-13-09-39-05W3	NTS Map:	73B/07
UTM Coordinates:	Z13 386160 E 5800883 N	RM No.:	344
Ground Elevation:		Source:	
Date Sampled:	22-May-79	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Warman #2	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	108.6	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	32050	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Tyner Valley aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	111	Aluminum (Al)	
Magnesium (Mg)	52.5	Antimony (Sb)	
Sodium (Na)	437	As (arsenic) (µg/L)	
Potassium (K)	11.9	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	685.3	Boron (B)	
Sulphate (SO4)	700.8	Cadmium (Cd)	
Chloride (Cl)	72.7	Chromium (Cr)	
Fluoride (F)	0.66	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	0.01	Copper (Cu)	
Total Iron (Fe)	2.16	Lead (Pb)	
Manganese (Mn)	0.13	Molybdenum (Mo)	
pH (pH units)	7.51	Nickel (Ni)	
Conductivity (uS/cm)	2471	Selenium (Se)	
Sum of Ions	2071	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	492.75	Tin (Sn)	
Total Alkalinity (as CaCO3)	562	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:	NE-13-09-39-05W3	NTS Map:	73B/07
UTM Coordinates:	Z13 386160 E 5800883 N	RM No.:	344
Ground Elevation:		Source:	
Date Sampled:	14-Aug-84	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Warman #2	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	108.6	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	32050	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Tyner Valley aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	204	Aluminum (Al)	
Magnesium (Mg)	101	Antimony (Sb)	
Sodium (Na)	1500	As (arsenic) (µg/L)	
Potassium (K)	17	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	458	Boron (B)	
Sulphate (SO4)	1776	Cadmium (Cd)	
Chloride (Cl)	1390	Chromium (Cr)	
Fluoride (F)	0.29	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.02	Copper (Cu)	
Total Iron (Fe)	4.5	Lead (Pb)	
Manganese (Mn)	0.11	Molybdenum (Mo)	
pH (pH units)	7.82	Nickel (Ni)	
Conductivity (uS/cm)	7330	Selenium (Se)	
Sum of Ions	5446	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	930	Tin (Sn)	
Total Alkalinity (as CaCO3)	375	Titanium (Ti)	
		Uranium (U) (µg/L)	
Dissolved Organic Carbon (DOC)		Vanadium (V)	
Turbidity (NTU)		Zinc (Zn)	
Perchlorate			
Iodine (I)	1.9		

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Land Location:	NE-13-09-39-05W3	NTS Map:	73B/07
UTM Coordinates:	Z13 386160 E 5800883 N	RM No.:	344
Ground Elevation:		Source:	
Date Sampled:	25-Aug-99	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Warman #2	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	108.6	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	32050	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Tyner Valley aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	121	Aluminum (Al)	
Magnesium (Mg)	48	Antimony (Sb)	
Sodium (Na)	420	As (arsenic) (µg/L)	
Potassium (K)	9.3	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	490	Boron (B)	
Sulphate (SO4)	829	Cadmium (Cd)	
Chloride (Cl)	74	Chromium (Cr)	
Fluoride (F)	0.13	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	0.12	Copper (Cu)	
Total Iron (Fe)	1.1	Lead (Pb)	
Manganese (Mn)	0.12	Molybdenum (Mo)	
pH (pH units)	7.69	Nickel (Ni)	
Conductivity (uS/cm)	2620	Selenium (Se)	
Sum of Ions	1991	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	499	Tin (Sn)	
Total Alkalinity (as CaCO3)	402	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:	NE-13-09-39-05W3	NTS Map:	73B/07
UTM Coordinates:	Z13 386160 E 5800883 N	RM No.:	344
Ground Elevation:		Source:	
Date Sampled:	21-Sep-05	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Warman #2	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	108.6	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	32050	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Tyner Valley aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	116	Aluminum (Al)	0.0014
Magnesium (Mg)	55	Antimony (Sb)	< 0.0002
Sodium (Na)	450	As (arsenic) (µg/L)	0.019
Potassium (K)	17	Barium (Ba)	0.014
Carbonate (CO3)	<1	Beryllium (Be)	< 0.0001
Bicarbonate (HCO3)	697	Boron (B)	0.57
Sulphate (SO4)	800	Cadmium (Cd)	< 0.0005
Chloride (Cl)	74	Chromium (Cr)	< 0.005
Fluoride (F)	0.22	Cobalt (Co)	0.0011
Nitrate - Nitrate (NO3, NO2 + NO3)	0.08	Copper (Cu)	< 0.0002
Total Iron (Fe)	1.8	Lead (Pb)	< 0.0001
Manganese (Mn)	0.08	Molybdenum (Mo)	0.0092
pH (pH units)	7.97	Nickel (Ni)	0.0013
Conductivity (uS/cm)	2670	Selenium (Se)	0.0001
Sum of Ions	2209	Silver (Ag)	< 0.0001
Total Dissolved Solids (TDS)		Strontium (Sr)	1
Error in Balance (%)		Thallium (Tl)	< 0.0002
Hardness (as CaCO3)	515	Tin (Sn)	0.0002
Total Alkalinity (as CaCO3)	571	Titanium (Ti)	
		Uranium (U) (µg/L)	0.0014
Dissolved Organic Carbon (DOC)		Vanadium (V)	0.0001
Turbidity (NTU)	15	Zinc (Zn)	< 0.005
Perchlorate			
Iodine (I)			

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