

Water Security Agency

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|--------------------------|---|-----------------------------|-------------------------|
| Land Location: | SE-3-29-29-22W2 | NTS Map: | 72P/11 |
| UTM Coordinates: | Z13 495360 E 5705945 N | RM No.: | 280 |
| Ground Elevation: | | Source: | |
| Date Sampled: | 10-Nov-66 | Time Sampled: | |
| Sample Location: | | Sampled by: | |
| Well name: | SWA Nokomis | Contractor: | |
| Well owner: | Water Security Agency | | |
| Address: | 111 Fairford Street East Moose Jaw, SK S6H 7X9 | Tel: | |
| Sample Depth: | 99.7 | Date Drilled: | |
| Depth to Water: | | Pump Setting: | |
| Well Diameter: | | Pumping Rate: | |
| WWRD # | 18271 | Construction method: | |
| Analysis No.: | | Formation: | Empress Group |
| Laboratory: | | Aquifer name: | Hatfield Valley aquifer |

| Constituent | Concentration | Constituent | Concentration |
|------------------------------------|---------------|---------------------|---------------|
| Major Ions | | Metals | |
| Calcium (Ca) | 193 | Aluminum (Al) | |
| Magnesium (Mg) | 97 | Antimony (Sb) | |
| Sodium (Na) | 780 | As (arsenic) (µg/L) | |
| Potassium (K) | 16 | Barium (Ba) | |
| Carbonate (CO3) | | Beryllium (Be) | |
| Bicarbonate (HCO3) | 447 | Boron (B) | |
| Sulphate (SO4) | 1520 | Cadmium (Cd) | |
| Chloride (Cl) | 475 | Chromium (Cr) | |
| Fluoride (F) | | Cobalt (Co) | |
| Nitrate - Nitrate (NO3, NO2 + NO3) | | Copper (Cu) | |
| Total Iron (Fe) | 4.13 | Lead (Pb) | |
| Manganese (Mn) | | Molybdenum (Mo) | |
| pH (pH units) | 7.23 | Nickel (Ni) | |
| Conductivity (uS/cm) | 4200 | Selenium (Se) | |
| Sum of Ions | 3528 | Silver (Ag) | |
| Total Dissolved Solids (TDS) | | Strontium (Sr) | |
| Error in Balance (%) | | Thallium (Tl) | |
| Hardness (as CaCO3) | 881 | Tin (Sn) | |
| Total Alkalinity (as CaCO3) | 336 | 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

Water Security Agency

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|--------------------------|---|-----------------------------|-------------------------|
| Land Location: | SE-3-29-29-22W2 | NTS Map: | 72P/11 |
| UTM Coordinates: | Z13 495360 E 5705945 N | RM No.: | 280 |
| Ground Elevation: | | Source: | |
| Date Sampled: | 12-Jun-68 | Time Sampled: | |
| Sample Location: | | Sampled by: | |
| Well name: | SWA Nokomis | Contractor: | |
| Well owner: | Water Security Agency | | |
| Address: | 111 Fairford Street East Moose Jaw, SK S6H 7X9 | Tel: | |
| Sample Depth: | 99.7 | Date Drilled: | |
| Depth to Water: | | Pump Setting: | |
| Well Diameter: | | Pumping Rate: | |
| WWRD # | 18271 | Construction method: | |
| Analysis No.: | | Formation: | Empress Group |
| Laboratory: | | Aquifer name: | Hatfield Valley aquifer |

| Constituent | Concentration | Constituent | Concentration |
|------------------------------------|---------------|---------------------|---------------|
| Major Ions | | Metals | |
| Calcium (Ca) | 170 | Aluminum (Al) | |
| Magnesium (Mg) | 81 | Antimony (Sb) | |
| Sodium (Na) | 580 | As (arsenic) (µg/L) | |
| Potassium (K) | 14 | Barium (Ba) | |
| Carbonate (CO3) | | Beryllium (Be) | |
| Bicarbonate (HCO3) | 475 | Boron (B) | |
| Sulphate (SO4) | 1190 | Cadmium (Cd) | |
| Chloride (Cl) | 297 | Chromium (Cr) | |
| Fluoride (F) | | Cobalt (Co) | |
| Nitrate - Nitrate (NO3, NO2 + NO3) | | Copper (Cu) | |
| Total Iron (Fe) | 14.1 | Lead (Pb) | |
| Manganese (Mn) | | Molybdenum (Mo) | |
| pH (pH units) | 7.6 | Nickel (Ni) | |
| Conductivity (uS/cm) | 3800 | Selenium (Se) | |
| Sum of Ions | 2807 | Silver (Ag) | |
| Total Dissolved Solids (TDS) | | Strontium (Sr) | |
| Error in Balance (%) | | Thallium (Tl) | |
| Hardness (as CaCO3) | 757 | Tin (Sn) | |
| Total Alkalinity (as CaCO3) | 389 | 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-3-29-29-22W2 | NTS Map: | 72P/11 |
| UTM Coordinates: | Z13 495360 E 5705945 N | RM No.: | 280 |
| Ground Elevation: | | Source: | |
| Date Sampled: | 30-Jun-70 | Time Sampled: | |
| Sample Location: | | Sampled by: | |
| Well name: | SWA Nokomis | Contractor: | |
| Well owner: | Water Security Agency | | |
| Address: | 111 Fairford Street East Moose Jaw, SK S6H 7X9 | Tel: | |
| Sample Depth: | 99.7 | Date Drilled: | |
| Depth to Water: | | Pump Setting: | |
| Well Diameter: | | Pumping Rate: | |
| WWRD # | 18271 | Construction method: | |
| Analysis No.: | | Formation: | Empress Group |
| Laboratory: | | Aquifer name: | Hatfield Valley aquifer |

| Constituent | Concentration | Constituent | Concentration |
|------------------------------------|---------------|---------------------|---------------|
| Major Ions | | Metals | |
| Calcium (Ca) | 171 | Aluminum (Al) | |
| Magnesium (Mg) | 81 | Antimony (Sb) | |
| Sodium (Na) | 570 | As (arsenic) (µg/L) | |
| Potassium (K) | 12 | Barium (Ba) | |
| Carbonate (CO3) | | Beryllium (Be) | |
| Bicarbonate (HCO3) | 484 | Boron (B) | |
| Sulphate (SO4) | 1180 | Cadmium (Cd) | |
| Chloride (Cl) | 304 | Chromium (Cr) | |
| Fluoride (F) | | Cobalt (Co) | |
| Nitrate - Nitrate (NO3, NO2 + NO3) | <2 | Copper (Cu) | |
| Total Iron (Fe) | 4.3 | Lead (Pb) | |
| Manganese (Mn) | | Molybdenum (Mo) | |
| pH (pH units) | 7.3 | Nickel (Ni) | |
| Conductivity (uS/cm) | 4050 | Selenium (Se) | |
| Sum of Ions | 2802 | Silver (Ag) | |
| Total Dissolved Solids (TDS) | | Strontium (Sr) | |
| Error in Balance (%) | | Thallium (Tl) | |
| Hardness (as CaCO3) | 761 | Tin (Sn) | |
| Total Alkalinity (as CaCO3) | 397 | 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-3-29-29-22W2 | NTS Map: | 72P/11 |
| UTM Coordinates: | Z13 495360 E 5705945 N | RM No.: | 280 |
| Ground Elevation: | | Source: | |
| Date Sampled: | 21-Sep-78 | Time Sampled: | |
| Sample Location: | | Sampled by: | |
| Well name: | SWA Nokomis | Contractor: | |
| Well owner: | Water Security Agency | | |
| Address: | 111 Fairford Street East Moose Jaw, SK S6H 7X9 | Tel: | |
| Sample Depth: | 99.7 | Date Drilled: | |
| Depth to Water: | | Pump Setting: | |
| Well Diameter: | | Pumping Rate: | |
| WWRD # | 18271 | Construction method: | |
| Analysis No.: | | Formation: | Empress Group |
| Laboratory: | | Aquifer name: | Hatfield Valley aquifer |

| Constituent | Concentration | Constituent | Concentration |
|------------------------------------|---------------|---------------------|---------------|
| Major Ions | | Metals | |
| Calcium (Ca) | 171 | Aluminum (Al) | |
| Magnesium (Mg) | 83 | Antimony (Sb) | |
| Sodium (Na) | 577 | As (arsenic) (µg/L) | |
| Potassium (K) | 8.3 | Barium (Ba) | |
| Carbonate (CO3) | | Beryllium (Be) | |
| Bicarbonate (HCO3) | 460 | Boron (B) | |
| Sulphate (SO4) | 1173 | Cadmium (Cd) | |
| Chloride (Cl) | 300 | Chromium (Cr) | |
| Fluoride (F) | 0.13 | Cobalt (Co) | |
| Nitrate - Nitrate (NO3, NO2 + NO3) | 16.3 | Copper (Cu) | |
| Total Iron (Fe) | 6.7 | Lead (Pb) | |
| Manganese (Mn) | 0.16 | Molybdenum (Mo) | |
| pH (pH units) | 7.73 | Nickel (Ni) | |
| Conductivity (uS/cm) | 3393 | Selenium (Se) | |
| Sum of Ions | 2789 | Silver (Ag) | |
| Total Dissolved Solids (TDS) | | Strontium (Sr) | |
| Error in Balance (%) | | Thallium (Tl) | |
| Hardness (as CaCO3) | 769 | Tin (Sn) | |
| Total Alkalinity (as CaCO3) | 377 | Titanium (Ti) | |
| | | Uranium (U) (µg/L) | |
| Dissolved Organic Carbon (DOC) | | Vanadium (V) | |
| Turbidity (NTU) | | Zinc (Zn) | |
| Perchlorate | | | |
| Iodine (I) | | | |

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|--------------------------|---|-----------------------------|-------------------------|
| Land Location: | SE-3-29-29-22W2 | NTS Map: | 72P/11 |
| UTM Coordinates: | Z13 495360 E 5705945 N | RM No.: | 280 |
| Ground Elevation: | | Source: | |
| Date Sampled: | 26-Aug-83 | Time Sampled: | |
| Sample Location: | | Sampled by: | |
| Well name: | SWA Nokomis | Contractor: | |
| Well owner: | Water Security Agency | | |
| Address: | 111 Fairford Street East Moose Jaw, SK S6H 7X9 | Tel: | |
| Sample Depth: | 99.7 | Date Drilled: | |
| Depth to Water: | | Pump Setting: | |
| Well Diameter: | | Pumping Rate: | |
| WWRD # | 18271 | Construction method: | |
| Analysis No.: | | Formation: | Empress Group |
| Laboratory: | | Aquifer name: | Hatfield Valley aquifer |

| Constituent | Concentration | Constituent | Concentration |
|------------------------------------|---------------|---------------------|---------------|
| Major Ions | | Metals | |
| Calcium (Ca) | 171 | Aluminum (Al) | |
| Magnesium (Mg) | 81 | Antimony (Sb) | |
| Sodium (Na) | 547 | As (arsenic) (µg/L) | |
| Potassium (K) | 8.1 | Barium (Ba) | |
| Carbonate (CO3) | | Beryllium (Be) | |
| Bicarbonate (HCO3) | 468 | Boron (B) | |
| Sulphate (SO4) | 1200 | Cadmium (Cd) | |
| Chloride (Cl) | 288 | Chromium (Cr) | |
| Fluoride (F) | 0.14 | Cobalt (Co) | |
| Nitrate - Nitrate (NO3, NO2 + NO3) | <0.02 | Copper (Cu) | |
| Total Iron (Fe) | 3.9 | Lead (Pb) | |
| Manganese (Mn) | 0.1 | Molybdenum (Mo) | |
| pH (pH units) | 7.88 | Nickel (Ni) | |
| Conductivity (uS/cm) | 3330 | Selenium (Se) | |
| Sum of Ions | 2763 | Silver (Ag) | |
| Total Dissolved Solids (TDS) | | Strontium (Sr) | |
| Error in Balance (%) | | Thallium (Tl) | |
| Hardness (as CaCO3) | 760 | Tin (Sn) | |
| Total Alkalinity (as CaCO3) | 384 | Titanium (Ti) | |
| | | Uranium (U) (µg/L) | |
| Dissolved Organic Carbon (DOC) | | Vanadium (V) | |
| Turbidity (NTU) | | Zinc (Zn) | |
| Perchlorate | | | |
| Iodine (I) | | | |

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|--------------------------|---|-----------------------------|-------------------------|
| Land Location: | SE-3-29-29-22W2 | NTS Map: | 72P/11 |
| UTM Coordinates: | Z13 495360 E 5705945 N | RM No.: | 280 |
| Ground Elevation: | | Source: | |
| Date Sampled: | 7-Oct-85 | Time Sampled: | |
| Sample Location: | | Sampled by: | |
| Well name: | SWA Nokomis | Contractor: | |
| Well owner: | Water Security Agency | | |
| Address: | 111 Fairford Street East Moose Jaw, SK S6H 7X9 | Tel: | |
| Sample Depth: | 99.7 | Date Drilled: | |
| Depth to Water: | | Pump Setting: | |
| Well Diameter: | | Pumping Rate: | |
| WWRD # | 18271 | Construction method: | |
| Analysis No.: | | Formation: | Empress Group |
| Laboratory: | | Aquifer name: | Hatfield Valley aquifer |

| Constituent | Concentration | Constituent | Concentration |
|------------------------------------|---------------|---------------------|---------------|
| Major Ions | | Metals | |
| Calcium (Ca) | 181 | Aluminum (Al) | |
| Magnesium (Mg) | 85 | Antimony (Sb) | |
| Sodium (Na) | 567 | As (arsenic) (µg/L) | |
| Potassium (K) | 8.3 | Barium (Ba) | |
| Carbonate (CO3) | | Beryllium (Be) | |
| Bicarbonate (HCO3) | 479 | Boron (B) | |
| Sulphate (SO4) | 1170 | Cadmium (Cd) | |
| Chloride (Cl) | 292 | Chromium (Cr) | |
| Fluoride (F) | 0.14 | Cobalt (Co) | |
| Nitrate - Nitrate (NO3, NO2 + NO3) | 0.04 | Copper (Cu) | |
| Total Iron (Fe) | 3.8 | Lead (Pb) | |
| Manganese (Mn) | 0.15 | Molybdenum (Mo) | |
| pH (pH units) | 7.64 | Nickel (Ni) | |
| Conductivity (uS/cm) | 3160 | Selenium (Se) | |
| Sum of Ions | 2782 | Silver (Ag) | |
| Total Dissolved Solids (TDS) | | Strontium (Sr) | |
| Error in Balance (%) | | Thallium (Tl) | |
| Hardness (as CaCO3) | 799 | Tin (Sn) | |
| Total Alkalinity (as CaCO3) | 393 | 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-3-29-29-22W2 | NTS Map: | 72P/11 |
| UTM Coordinates: | Z13 495360 E 5705945 N | RM No.: | 280 |
| Ground Elevation: | | Source: | |
| Date Sampled: | 22-Sep-05 | Time Sampled: | |
| Sample Location: | | Sampled by: | |
| Well name: | SWA Nokomis | Contractor: | |
| Well owner: | Water Security Agency | | |
| Address: | 111 Fairford Street East Moose Jaw, SK S6H 7X9 | Tel: | |
| Sample Depth: | 99.7 | Date Drilled: | |
| Depth to Water: | | Pump Setting: | |
| Well Diameter: | | Pumping Rate: | |
| WWRD # | 18271 | Construction method: | |
| Analysis No.: | | Formation: | Empress Group |
| Laboratory: | | Aquifer name: | Hatfield Valley aquifer |

| Constituent | Concentration | Constituent | Concentration |
|------------------------------------|---------------|---------------------|---------------|
| Major Ions | | Metals | |
| Calcium (Ca) | 162 | Aluminum (Al) | 0.0009 |
| Magnesium (Mg) | 81 | Antimony (Sb) | < 0.0002 |
| Sodium (Na) | 555 | As (arsenic) (µg/L) | 0.017 |
| Potassium (K) | 9.5 | Barium (Ba) | 0.01 |
| Carbonate (CO3) | <1 | Beryllium (Be) | < 0.0001 |
| Bicarbonate (HCO3) | 484 | Boron (B) | 0.4 |
| Sulphate (SO4) | 1120 | Cadmium (Cd) | < 0.0005 |
| Chloride (Cl) | 296 | Chromium (Cr) | < 0.005 |
| Fluoride (F) | 0.12 | Cobalt (Co) | 0.0007 |
| Nitrate - Nitrate (NO3, NO2 + NO3) | <0.04 | Copper (Cu) | < 0.0002 |
| Total Iron (Fe) | 2.7 | Lead (Pb) | < 0.0001 |
| Manganese (Mn) | 0.1 | Molybdenum (Mo) | 0.011 |
| pH (pH units) | 7.92 | Nickel (Ni) | 0.0003 |
| Conductivity (uS/cm) | 3540 | Selenium (Se) | 0.0001 |
| Sum of Ions | 2708 | Silver (Ag) | < 0.0001 |
| Total Dissolved Solids (TDS) | 2620 | Strontium (Sr) | 1.3 |
| Error in Balance (%) | | Thallium (Tl) | < 0.0002 |
| Hardness (as CaCO3) | 737 | Tin (Sn) | 0.0001 |
| Total Alkalinity (as CaCO3) | 397 | Titanium (Ti) | |
| | | Uranium (U) (µg/L) | 0.0004 |
| Dissolved Organic Carbon (DOC) | | Vanadium (V) | < 0.0001 |
| Turbidity (NTU) | 41 | Zinc (Zn) | < 0.005 |
| Perchlorate | | | |
| Iodine (I) | | | |

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