

KINGSWAY - BANCROFT STORM WATER TREATMENT PROJECT

OPEN HOUSE

IDENTIFYING THE PROBLEM

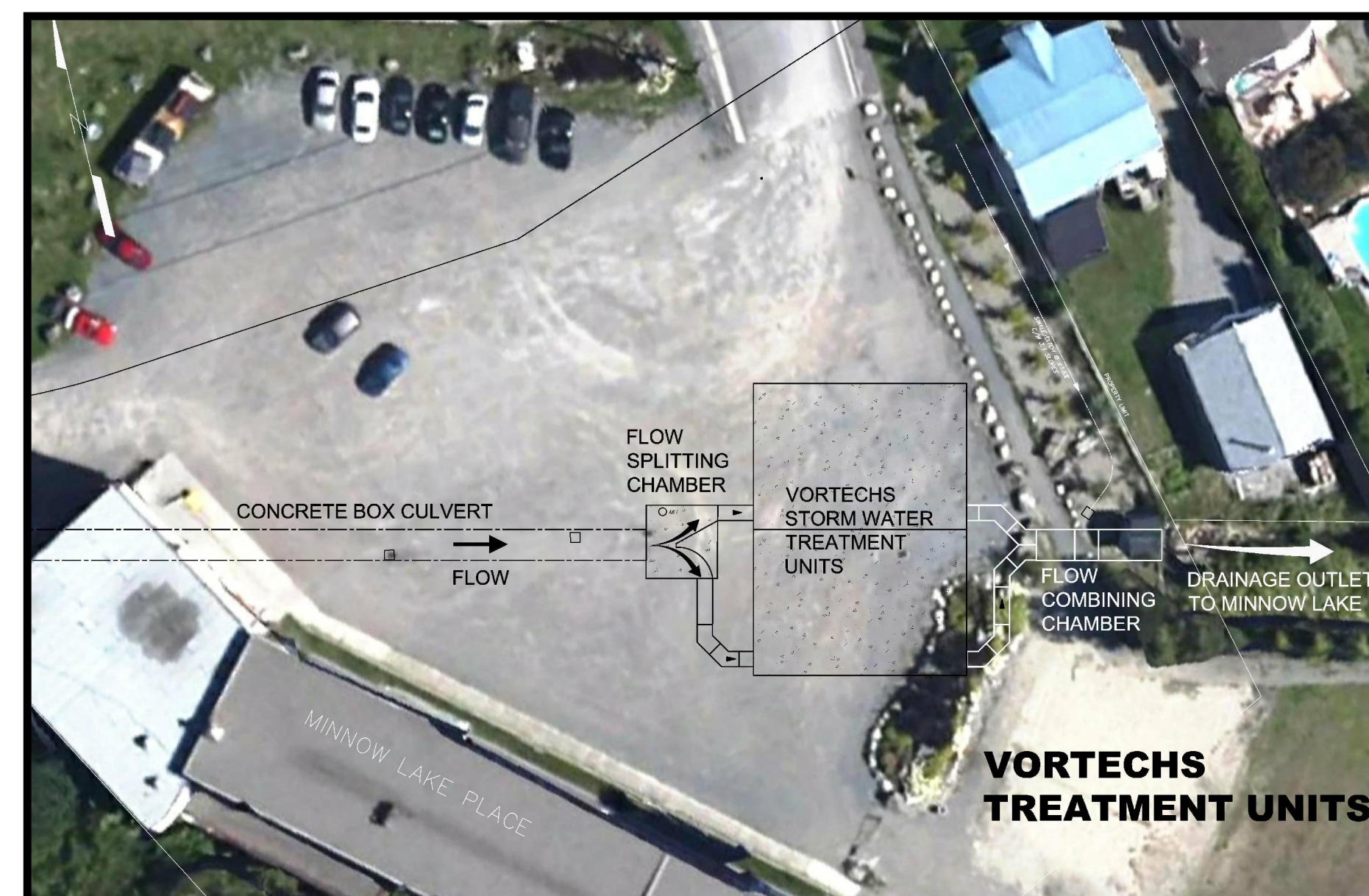
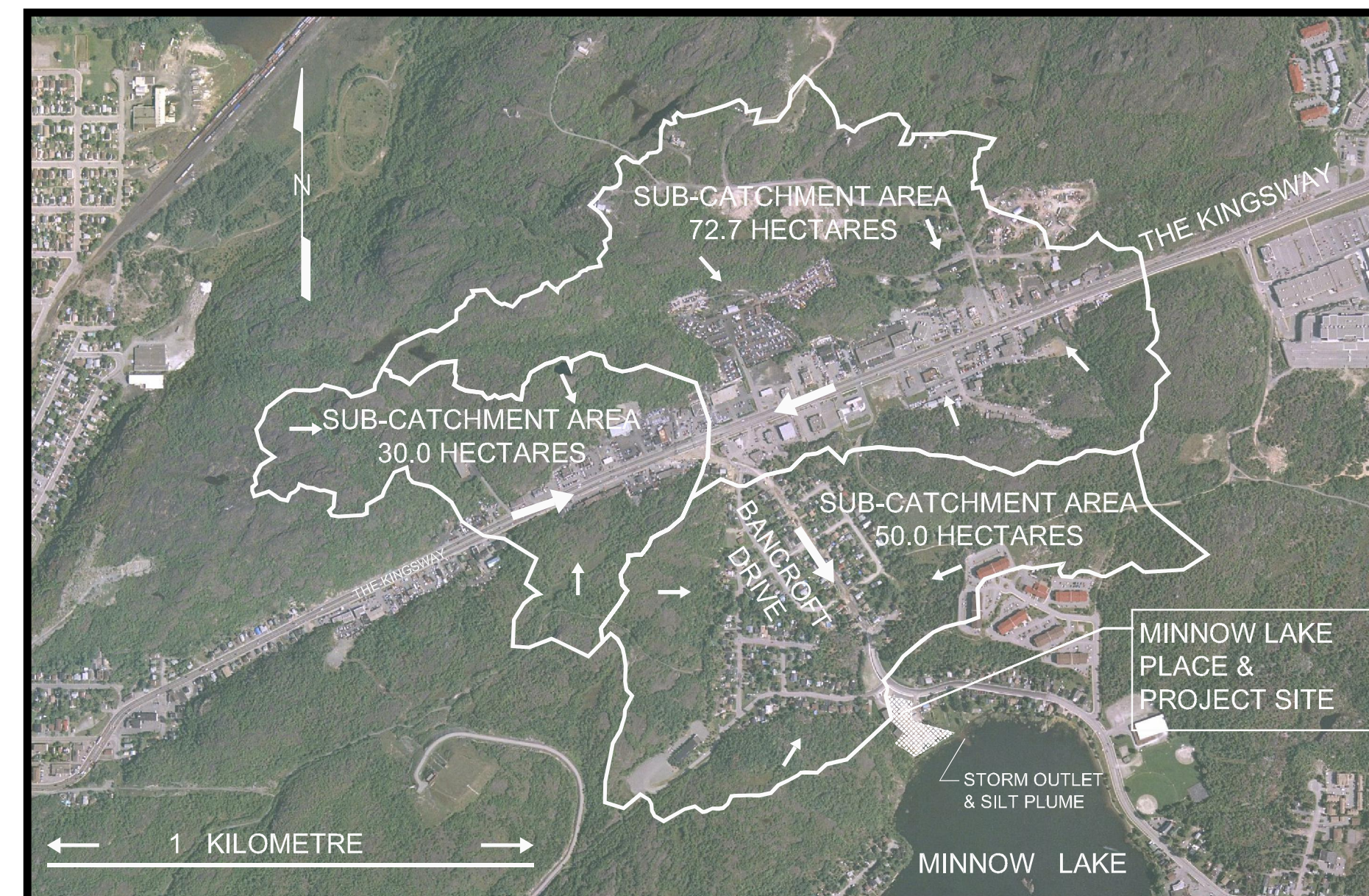
LARGE QUANTITIES OF UNTREATED STORM WATER ARE ENTERING MINNOW LAKE FROM THE KINGSWAY AND BANCROFT DRIVE NEAR MINNOW LAKE PLACE.

THE STORM WATER CONTAINS HYDROCARBONS, SILTS AND OTHER POLLUTANTS THAT HAVE AN IMPACT ON THE HEALTH OF THE LAKE. THE STORM WATER DEPOSITS COARSE SEDIMENTS AT THE STORM OUTLET, AND FINE SEDIMENT THROUGHOUT THE LAKE.

OBJECTIVES

THE CITY OF GREATER SUDBURY HAS COMMITTED TO ADDRESSING THE PROBLEMS OUTLINED IN THE ABOVE WITH THE IMPLEMENTATION OF THE FOLLOWING STRATEGIES.

- SIGNIFICANTLY REDUCE THE AMOUNT OF HYDROCARBONS, SILTS AND OTHER POLLUTANTS ENTERING THE LAKE WITH THE INSTALLATION OF STORM WATER MANAGEMENT DEVICES TO INTERCEPT AND STORE THE CONTAMINANTS FOR ENVIRONMENTALLY RESPONSIBLE DISPOSAL.
- REMOVAL OF THE LARGE SILT PLUME THAT EXTENDS OUT INTO THE LAKE AT THE STORM SEWER OUTLET, AND REINSTATE THE SHORELINE TO A MORE NATURAL STATE.
- IMPLEMENT THE RECOMMENDATIONS OF THE RAMSEY LAKE SUBWATERSHED STUDY AND STORMWATER MASTER PLAN.



END-OF-PIPE TREATMENT DESIGN PARAMETERS & TARGETS

- ACHIEVE 81% REMOVAL OF THE TSS (TOTAL SUSPENDED SOLIDS) FROM THE STORM WATER. THIS RATE OF REMOVAL IS CONSISTENT WITH THE MINISTRY OF THE ENVIRONMENT AND CLIMATE CHANGE (MOECC) TARGET FOR ENHANCED REMOVAL. THE ANTICIPATED STORM WATER FLOW TO THE SITE IS EXPECTED REACH ABOUT 7,800 LITRES PER SECOND DURING VERY HEAVY RAIN STORM EVENTS.
- TSS REMOVAL OF PARTICLE SIZES DOWN TO 50 MICRONS (ABOUT 1/20th OF A MILLIMETRE).
- HYDROCARBON CAPTURE FOR COLLECTION AND ENVIRONMENTALLY RESPONSIBLE DISPOSAL.
- COLLECT FLOATABLES (GARBAGE & DEBRIS WASHED INTO THE STORM SEWERS) FOR DISPOSAL TO ENSURE THAT THEY ARE NOT DISCHARGED DIRECTLY INTO THE LAKE.
- MINIMIZE DISRUPTION TO THE EXISTING PARKING AREA DURING CONSTRUCTION AND RETURN THE SITE TO ITS ORIGINAL USE ONCE CONSTRUCTION IS COMPLETE.



**J.L. Richards
& Associates Limited**
314 Countryside Drive
Sudbury, ON Canada
P3E 6G2
Tel: 705 522 8174
Fax: 705 522 1512