



WDO PROJECTS FINAL REPORT



Project Name: Hazardous Household Waste Depot - HSW 01 08
Municipality/Organization: North Renfrew Waste Management Board
Municipal Project Manager: James Leon, Waste Management Coordinator
Total Funding Provided by WDO: \$4,987.50 to date, total committed amount is \$7,125.00
Total Project Costs: \$30,550.72

EXECUTIVE SUMMARY

The North Renfrew Waste Management Board's new landfill site will open in the summer of 2002. The site will serve a population of about 7,000 in the Town of Deep River and the Town of Laurentian Hills. The residents are aware of the importance of the proper disposal requirements for hazardous special household wastes through advertising and previous Hazardous Household Waste Day Events.

The Board has obtained approval for a Household Special Waste Depot from the MOE as part of the Certificate of Approval. The Depot is a 48'5" by 25'5" steel building from Future Sales Corporation, Markham, Ontario. It was assembled on a concrete footer and has a finished concrete floor. The special waste materials collected and stored in the depot will be motor oil, batteries, paints, refrigerants and compressed gas cylinders. This will represent over 80% of the Household Special Waste stream. Other special waste components of the stream will be collected during a yearly Household Special Waste Day Event at the same time that the contractor picks up the special waste collected at the depot.

The Board decided on a steel building for its strength, long life and reasonable price. A contractor was selected based on the lowest bid and was provided with the engineering prints and the assembly instruction manual. The footer was poured and the building was constructed according to the plans. The concrete floor was then poured. The finished building is satisfactory and ready for use.



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INTRODUCTION

The North Renfrew Waste Management Board in its' application to the MOE for the Certificate of Approval for the new landfill site requested approval for a Household Special Waste Depot as a component of the site. The MOE issued the approval as requested.

A cost effective building to be used as the depot was sought and a steel building was selected over other styles and materials. The steel building selected has the required cost, strength and life expectancy required for the purpose. The dimensions of the structure are 48'5" by 25'5" and this will be more than adequate for special waste storage. The building is located to the right side of the site road just inside the second steel entrance gate.

The Town of Deep River and the Town of Laurentian Hills in Renfrew County, eastern Ontario will be served by the new landfill site. The population of the area is about 7,000.

METHODOLOGY

The search for a cost-effective and appropriate structure for the special waste depot began with a "Request for Proposals" from several suppliers of a variety of building structures. Fabric and plastic were ruled out in favor of a galvanized steel building provided by Future Sales Corporation.

The Board accepted an offer by Future Sales, bid #FSQ010208All dated 11/03/01, to provide a Future Steel Building, Model S25; 48'5" long by 25'5" wide for \$13,870 plus taxes. Stamped engineering drawings and footing drawings were obtained from Future Sales.

Engineering drawings for slab design were obtained from Dent Engineering LTD., Pembroke Ontario.



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The following advertisement was placed in local newspapers: "TENDER FOR THE CONSTRUCTION OF A CONCRETE SLAB AND FOOTINGS AND ERECTION OF A FUTURE STEEL BUILDING FOR THE HOUSEHOLD HAZARDOUS WASTE DEPOT AT THE NORTH RENFREW LANDFILL SITE ON BAGGS ROAD", with a tender closing date of July 23, 2001. Two tenders were received and the Board decided on the one with the lowest price. The bidder was Big Country Forming & Carpentry, RR6, Pembroke Ontario with a bid of \$ 13,493.42 including taxes. The completion date was set for September 15, 2001.

Excavation and forms for the footer and the pouring of the footer was completed by August 15, 2001. The Town of Deep River Building Inspector Inspected the footer forms before the pouring. The main building shell assembly and pouring of the concrete floor were completed by August 31, 2001. The building ends, garage and man doors and vents were installed and operational by September 15, 2001.

RESULTS

The Future Steel Building in its' completion is acceptable as a household special waste depot. Total costs were \$30,550.72 including materials, labor, taxes, delivery, building permit and slab design drawings.

The impact of having a household special waste depot will be to divert hazardous waste away from landfill for recycling or proper disposal and free the environment of these hazardous wastes. Through advertising and education the population of this area should respond well to using this depot.

The opening of the landfill site and the household special waste depot is set for June 2002. The success of the depot will be proved after operation has begun and the Board is very optimistic of its' success.

TRANSFERABILITY TO OTHER REGIONS/MUNICIPALITIES IN ONTARIO

The successful implementation of the depot will be an example of this important mode of environmentally friendly waste diversion. When in operation, advertising the success of the depot to other regions/municipalities that don't have similar facilities may encourage development of other household special waste depots. A well-ventilated steel building is ideal for this purpose.