

**TO: CITY MANAGER**

**1995 AUGUST 17**

**FROM: DIRECTOR PLANNING AND BUILDING**

**SUBJECT: REPLACEMENT TANKAGE, ASPHALT LOADING  
RACK AND TRUCK SCALE CHEVRON CANADA LTD.  
PRELIMINARY PLAN APPROVAL #11332**

**PURPOSE:** To provide Council with information on an application for construction at the Chevron Refinery.

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**RECOMMENDATIONS:**

1. **THAT** a copy of this report be sent to:

Mr. R.E. Gray  
Manager Health, Environment & Loss Prevention  
Chevron Canada Limited  
355 North Willingdon Avenue  
Burnaby, B.C. V5C 1X4

**R E P O R T**

This Department has received an application for Preliminary Plan Approval which consists of replacement facility installations to upgrade equipment to current standards and to provide improved environmental protection.

An information report from this Department dated 94/06/13 was received by Council with regards to the installation of a Gasoline Blender well within the Chevron Refinery site. This project was included as part of Chevron's 1974 Burnaby Modernization and Expansion Project and was the subject of several Council Reports in late 1973 and early 1974. Council adopted the report and Preliminary Plan Approval was subsequently released. Chevron has indicated the Gasoline Blender is completed and fully in service along with the new Wharf recommended by the Sandwell Report and the subject of a Council Report dated 1994 March 07.

**1.0 CURRENT PROPOSAL:**

The proposed Blending and Shipping Area tankage (see attached sketch #1) is intended to replace most of the 1935 - 1936 older small cone roof equipment. The replacement tankage will be a floating roof design with seals to minimize emissions. The replacement tankage will provide necessary storage so that existing tanks can be taken out of service for regular inspection and maintenance. The proposal is to construct the tankage over the next five year period and approval for all eight of the replacement tanks is being presented now in order that appropriate site development work can be initiated and new containment basins can be properly sized. The 1996 - 1998 construction following the completion of the gasoline blender, will involve two or three tanks initially for segregation of diesel fuel into regular and low sulphur streams and for two lower Fraser Valley reformulated gasolines. The gasoline tankage is to meet the expected requirements of the B. C. Clean Fuels and Vehicles Program.

Twenty six small existing tanks will be removed and eleven replacements will be installed. The proposed Processing Area tankage (see attached sketch #2) will replace recovered oil and water tanks constructed in 1954 and 1974 with adequately sized storage for oil and water generated both on and off site for reprocessing. The proposed tankage will also be used for additional storage so that existing tanks can be taken out of service for regular inspection and maintenance. Additional LPG tankage is also proposed to provide seasonal storage of surpluses caused by provincially regulated lower volatility gasolines during the summer months.

Chevron has indicated that all new pumps, mixers and valves installed as part of this project will be of low noise and hydrocarbon emission design. They will include fire and spill protection equipment designed to meet current standards. In addition, a process area supplementary fire water supply will also be developed.

The replacement asphalt loading rack and truck scale are required to provide upgraded facilities reflecting current state of the art. The present plans are to use the loading rack for paving grades only.

**2.0 DISCUSSION:**

Chevron indicates that the proposed water effluents are within the scope of the existing Provincial and G.V.R.D. discharge permits. New tanks will be added to and demolished tanks will be removed from the existing G.V.R.D. air emissions permits. Chevron calculates that a net reduction of over 100 tonnes per year in volatile organic hydrocarbon emissions to the atmosphere will result from use of the floating roof design plus seals, versus continued operation of the existing tanks. The vapour recovery capabilities would be in conformance with the emission reduction measures outlined in P-Ref-2 or 3 of the G.V.R.D. Air Quality Management Plan. These guidelines equal or exceed the Bay Area Quality Management District Regulations which were utilized as an early interim reference in the 1970's before there were local standards.

Chevron has informed the Health Department that the majority of the existing tanks to be removed have been decommissioned and that these tanks will be removed prior to construction of new tanks in the same area and existing G.V.R.D. air emission permits will be revised when new tanks are in place. In addition, Environmental Health states it is the proponent's responsibility to ensure that the operation noise resulting from the proposed changes in operation will be compliance with the Burnaby Noise and Sound Abatement Bylaw.

**3.0 SUMMARY:**

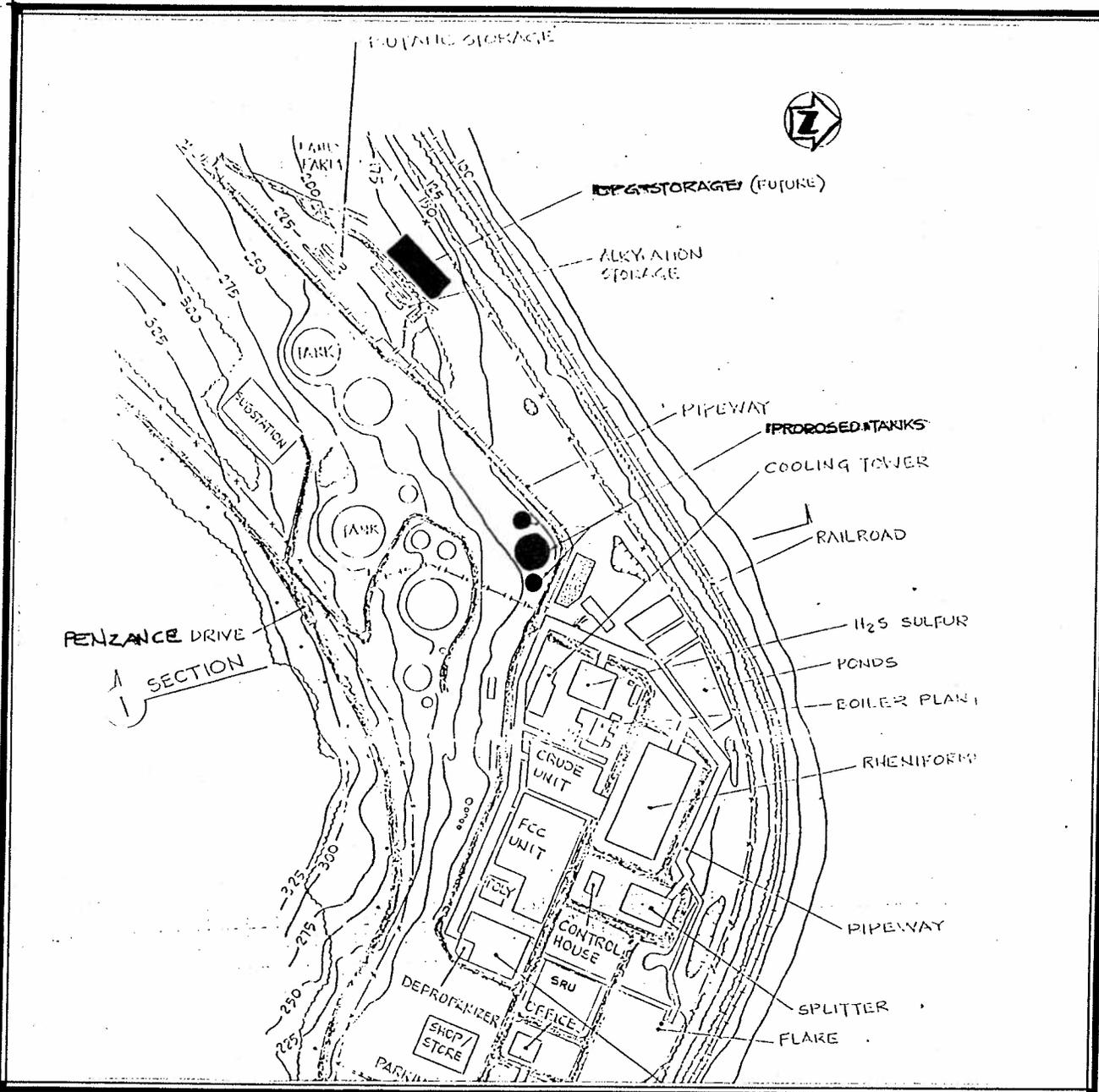
The application for construction at the Chevron Refinery has met all departments concerns and unless otherwise directed this Department will process the application and prepare it for issuance subject to all pertinent Department approvals.



D. G. Stenson,  
Director Planning and Building

PJA/ds





**Date:**  
95.08.23

**Scale:**  
N.T.S.

**Drawn By:**



**City of Burnaby**  
Planning & Building Dept.  
Processing Area Tankage

Sketch 2

