



Chevron Canada Limited
Burnaby Refinery
355 North Willingdon Avenue
Burnaby, B.C.
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September 29, 2017

Ms. Lavinia Zanini
Land Remediation Section
Ministry of Environment
Lower Mainland Region
10470, 152nd Street
Surrey, BC, V3R 0Y3

Quarterly Status Report for July, August and September 2017
BC Site Number 6726

Dear Ms. Zanini:

cc: City of Burnaby – Saleh Haidar
CP Rail – Kevin Houle
Environment Canada – Chris Raymond
First Nations - Squamish Nation – Chief Bill Williams
First Nations – Tsleil-Waututh Nation – Amanda King and Michelle George
Fraser Health – Gord Stewart
INAC (Department of Indian and Northern Affairs) – Siegfried Pflug
Port of Vancouver – Kate Schendel

This quarterly status report is in response to the requirement set out by the Ministry of the Environment (MOE) to keep the Ministry updated on information regarding on-going inspections, investigations and remediation of the area of concern. It covers activities in the months of July, August and September 2017.

For those who have been copied: *Please advise if you wish to be taken off of the distribution list for this report.*

As we have previously advised, Chevron is committed to ensuring that we protect our local environment, and mitigate and contain any potential impacts relating to the seepage from Area 2 of the Burnaby Refinery, which was first identified in April 2010.

These quarterly updates, including attachments, are being provided on the www.chevron.ca website (see “Current Issues-Burnaby Refinery Area 2 Seepage” under the Resources tab).

FORESHORE

The foreshore Interim Remedial Action (IRA) oleophilic clay barriers are being replaced by the Foreshore Final Remedy. Construction of the Final Remedy started on July 10, 2017 and is expected to be complete by the end of October 2017. See the bottom of this letter for a photograph. Both Eastern and Western IRA barriers have been excavated and the removed materials have been transported for disposal at an approved off-site facility. As part of the Final Remedy, new flow-through treatment cells are being installed in both the Eastern and Western Seep areas. The environmental consultant has been on site monitoring the installation of the new Final Remedy and is providing weekly reports to the Port of Vancouver, as per Permit No. 16-180. During construction the containment boom was expanded in August 2017 to include the Western Seep Area. Inspections of the containment boom and the foreshore in the area of the seeps, continue on an approximately weekly basis.

The revised Remedial Action Plan (RAP) report pertaining to the Final Foreshore Remedy, dated October 27, 2016, accepted by the MoE in September 2016, and the associated Fact Sheet for the Final Remedy are available on the [CAP website](#).

Monitoring reports for the work performed on the foreshore in 2011, 2012, 2013, 2014 and 2015, along with Fact Sheets, are available on the Chevron Community Advisory Panel (CAP) website.

RAILROAD

Extraction of groundwater from the CPR interception trench continued during this quarter with very little non-aqueous phase liquid (NAPL) being observed. The system is monitored on a regular basis.

REFINERY

In general, the Perimeter Extraction System (PES) continued to operate effectively as designed. New, larger diameter pipe and a new compressor were installed in 2015 in the eastern section of the PES to address pumping inefficiencies. New, larger diameter pipe was installed in the western and central sections of the PES in October 2016. A new, dedicated oil-water separator was put into operation in August 2017. Performance of the PES in 2013 and 2014 is presented in the report entitled, "*2014 Perimeter Monitoring Program and 2013 & 2014 Perimeter Extraction System*," which is posted on the CAP website. The report covers the entire refinery Perimeter Monitoring Program, of which the PES is a significant part. The PES is monitored semi-monthly.

I trust this helps to let you know of our progress to date, and to demonstrate that we are being pro-active and continuing to place this situation at a high priority. Please let either Jill Donnelly (604-257-4005) or me know if you have any questions.

Thank you.

Chris Boys, P. Geo.
Environmental Specialist
Burnaby Refinery
Phone: 604-257-4012



Foreshore Final Remedy installation, looking east, August 4, 2017