

Minutes of Chevron Burnaby Refinery Community Advisory Panel Meeting

Tuesday June 14, 2011

7 – 9 pm at the Confederation Seniors Centre

PRESENT

Bonnie Hayward, Maziar Kazemi, Ian Lacoursiere, Eileen Luongo, Rob Mclean, Kathy Mezei, Al Mytkowicz and Art Quan

Chevron representatives:

Chris Boys, Environmental Specialist; Jill Donnolly, Health Environment & Safety Manager; Jim Gable, Refinery Manager; Ray Lord, Public & Govt. Affairs Manager.

Metro Vancouver Representatives:

Larry Avanthay and Darrell Wakelin, Regulatory representatives for Metro Vancouver

Facilitator:

Kim Barbero, Carah Worldwide Consulting, Inc.

REGRETS

Pat Connolly and Kathy Curran

CAP BUSINESS

1. Opening Remarks

- Kim Barbero welcomed CAP members and thanked them for accommodating an earlier date in the week than originally scheduled.
- A roundtable introduction was made for the benefit of those who were new to the group or not able to attend recent meetings.

2. Chevron Updates

a. General Refinery Operations

- In addition to ongoing regular maintenance activities, Jim Gable reported that recent issues involving the Trans Mountain crude pipeline in Alberta had resulted in refinery supply interruptions and constraints. As a result, the refinery has been making operational adjustments and taking the opportunity to conduct cleaning, maintenance and inspections on several units.
- Jim commented on the recent tragedy at the Chevron Refinery in Pembroke Wales that occurred on June 2nd. On behalf of the Burnaby Refinery, he expressed his condolences to

the family, friends and co-workers of the four contract workers who were killed and his wishes for a full recovery for the one person seriously injured in the incident. Jim said that an investigation is now underway and he hopes to have further information as to what happened and lessons prior to our next CAP meeting in September.

b. Community Emergency Notification Follow-Up

- Jim Gable and Ray Lord reported that they had met with representatives of the North Shore's Emergency Management organization who have experience with, and operate an automated community notification system. Jim and Ray explained that effort is now underway to encourage further information sharing between the City of Burnaby and the North Shore which has an integrated emergency management system that can serve a population of 140,000. It is hoped that the City of Burnaby considers the model and that a pilot program, potentially involving the community immediately surrounding the Chevron Refinery, could be considered in the future. Based on the North Shore model, it was suggested that such a pilot program could potentially be funded by Chevron. Ray suggested that CAP visit the North Shore Emergency Management Office Web site to learn more about the notification system and the voluntary "Opt-in" self subscription process for interested North Shore residents:

www.nsemo.org.

In the meantime, CAP was reminded that the Refinery has notification measures in place in the event of a significant incident that requires community notification. Those include: a response overseen by a collaborative combined incident command system involving local public safety agencies and regulatory organizations, door-to-door notification, neighbourhood letter drops, online refinery operational updates via the refinery CAP website and activation of a refinery telephone information call centre.

- Kathy Mezei put forward the name of an SFU Emergency Management communications specialist, Peter Anderson, who is willing to make a presentation at a CAP meeting. This suggestion was welcomed and will be organized for a future meeting.
- Discussion ensued regarding the types of incidents for which Chevron may be prepared and the importance of modeling various possible event scenarios, including the effects of local topography. Chevron agreed that it is very important for them to know how best to manage those incidents that may be considered low probability but of high consequence.

It was suggested that Chevron circulate a list of what it considers Level 3 events.

****Please refer to attached Addendum 1: "Incident Classification Descriptions, CAP June 14, 2011."**

c. Area 2 Seep Update

- Jill Donnelly provided an update on the Area 2 seep, including mention that bi-weekly updates are available through the CAP Web site. A summary of Jill's comments follows:
 - Beach – the absorbent clay is functioning well; no sheen has been seen on the water. A minimal amount of material was noticed near the main trench but turned out later to not be hydrocarbon-related
 - Railway Trench – pumping from the trench continues; when tested in April, while some odours were detected in the immediate vicinity, hydrocarbons were not visible, only water.
 - Extraction wells along east impounding basin – approximately 50 litres of hydrocarbons were being recovered per day at the start of April 2011 compared to 80 litres in December 2010.
 - Sewer Bypass – the north sewer bypass has been completed and operating since June 3. Temporary pumps are being regularly monitored while installation of the longer-term pumping system is being completed. Some evidence of hydrocarbons in the immediate area surrounding the sewer line was seen during excavation. When the sewer was test flooded, no leakage was detected.
 - The Refinery is now working on plans to repair and/or replace the underground sewer.
 - The Detailed Site Investigation (DSI) of the foreshore continues. The report and data will be made available when the assessment and analysis are completed.
 - Following completion of the DSI, an ecological risk assessment will be conducted.

Questions asked later in the meeting but pertinent to this subject included:

Q1: Who is conducting the ecological risk assessment?

A1: The ecological risk assessment will be conducted by consultants – URS Canada and SLR Consulting who have extensive experience in doing these kinds of risk assessments.

Q2: Have you found all areas where 7 tbsp. of oil a day are coming from?

A2: At this stage, we believe the existing network of monitoring and extraction wells is sufficient to detect the underground flow of contaminants. We are not able to provide definitive identification of every potential source; there will always be some hydrocarbon present in the ground below this site and picked up by normal groundwater migration.

3. Refinery On site Contamination & Remediation

a. Site Remediation Status Update Summary

- Ray Lord recounted that during the November 2010 CAP Agenda planning exercise, that the subject of general site contamination and remediation was identified as a priority topic for discussion by CAP members. Jill Donnelly and Chris Boys shared with CAP a summary document outlining several areas of the refinery being currently monitored and/or actively remediated where there are concerns with soil or ground water conditions. In the past, this document, and any pertinent update information, was regularly presented at CAP meetings and

it was suggested that this should resume given the number of new CAP members who have joined the group. Chris Boys reviewed the Site Remediation summary (attached Addendum 2) in detail and provided supplementary information as required.

b. Ponds

- Al Mytkowicz had queried whether or not birds landing on the Refinery ponds and being contaminated was an issue at the refinery. Jill Donnelly commented that this has not been a major problem at the site over the years. She described that the refinery's water treatment system involves oil/water separation and settling ponds. She surveyed various employees and no one could recall a case of exposure of wildlife to oil on water. The ambient sounds and activity levels in and around the refinery do not tend to attract water fowl to the treatment ponds.

c. 2001 Environmental Compliance Audit

- As a follow-up to the 2001 audit, Eileen Luongo had submitted questions that she requested be answered. Jill Donnelly thanked Eileen for her interest and said that the exercise helped her re-familiarize herself with the information and the progress the Refinery has made over the past 10 years. Following is a summary of the questions and answers:

Q1: How many times since this audit in October 2001 until present has Chevron been on the GVRD Air Quality NCL (or equivalent) list?

A1: None that Chevron is aware of. A search was conducted for a Metro Vancouver list but none was available and the Ministry of Environment's lists of 2006 to 2010 published data did not mention Chevron. Darrell Wakelin reminded CAP that air quality monitoring data, including non-compliance, is now published on the Metro Vancouver web site.

Q2: [Production & emissions have increased over the years and carbon dioxide and VOC's decreased] Has this trend continued since 2001?

A2: Refinery production rates have increased minimally over the past several years. Primarily since 2000, emission rates have decreased or steadied with production rates. For example, SOx emissions and VOCs were reduced by 50% in December 2004 and 2002 respectively, with a steady decline ever since. One reason cited for this significant reduction in VOC's is the refinery's marine vapour recovery system that is used as required on all vessels at the marine loading facility.

Q3: Has the Burnaby Chevron Refinery ceased using MTBE?

A3: Yes, the Refinery stopped processing and transferring MTBE in 2002.

Q4: Do all Aboveground Storage Tanks (ASTs) have double seals?

A4: Yes, all floating roof tanks have double or secondary seals.

Q5: Is there still a land farm at the Burnaby Chevron Refinery? Please comment on how hazardous wastes are presently handled.

A5: There has not been an active land farm at the Refinery since 1999. In 2008, all soil on the decommissioned former land farm site was removed to an approved off-site waste handling facility. The area is now a grassy field.

Q6a: Does the Refinery have a method in place for plugging the drain hole under the main pipe chase on the pier in the event of a spill?

A6a: Yes, a valve has been installed – it can be opened to drain rain water and closed if needed to contain a loss of containment.

Q6b: Have the flanged joints on the loading tower and arm at the marine transfer facility been pressure tested? Has there been a review of the adequacy of the present spill prevention and containment practices and equipment as they relate to this particular loading method?

A6b: Both the marine loading tower and arm are pressure tested annually. The prevention protocols and equipment in place at the wharf have been carefully reviewed and include pre-boom and spill prevention kits.

Q7: Does the infrastructure for any of the Above ground Storage Tanks (ASTs) on the Burnaby Chevron Refinery site not meet the National Fire Code?

A7: All ASTs at the refinery meet the fire code. The guideline is that all containment systems meet the current standard.

4. Odour Management Plan (OMP) Review

- Jill Donnelly provided an overview of the first annual OMP review process recently undertaken to review data, identify trends and make recommendations regarding odour issues and complaints. The review was conducted jointly with volunteer CAP members Eileen Luongo and Kathy Curran, both of whom were interested in being a part of the process. Eileen expressed concern that their recommendations were not heard nor considered for implementation. Eileen referred specifically to the recommendation that Chevron post its odour complaint number at the McGill playground neighbouring the Refinery. Jill explained that the review was intended to focus on a review of existing, reported data for the purpose of identifying odour trends and how that data could be used to guide the refinery's efforts to further mitigate odours.
- On behalf of Kathy Curran, Eileen asked for information about a strong gasoline smell she experienced near the 4000 block, Pandora on June 1st. Jill commented that she also smelled an odour on-site around the same time that day during a violent thunderstorm. An odour investigation was conducted by Area 1 operators but a source could not be identified. Following the storm, the odour subsided.

5. Metro Vancouver Updates

- Darrell advised the group that he has recently been assigned the task of implementation of the Non-Road Diesel Engine Emission Regulation approved by the Board in February. As a result, Larry Avanthay will be assisting with the Chevron Refinery file. To start, Larry will be responsible for day-to-day issues including odour complaint investigations and review of submitted reports for compliance with the permits.
- Darrell advised CAP that they are working with the air quality planner to review the PM₁₀ particulate matter data collected over the last year at-station T24 located at the corner of Madison Avenue and Eton Street. The review would be to validate the collected data and compare the PM₁₀ results with other monitoring stations and the air quality objectives.
- Darrell requested that Chevron include the Metro Vancouver air quality complaint line (604.436.6777) in future issues of Refinery Neighbourhood newsletter. This would be in addition to the Community Contact Line advertised in the Neighborhood News in which the public can report complaints directly to the refinery.
- Darrell also advised that consultation of the draft Integrated Air Quality and Greenhouse Gas Management Plan concluded on June 1st. Air Quality Planning staff are reviewing comments and a revised version of the Plan is scheduled to be presented at the Environment and Energy Committee on July 12th. If the revised document is endorsed by the Committee it would then proceed to the Board for possible adoption on July 29th. The Goals, Strategies and Actions can be viewed on the Metro Vancouver website at <http://www.metrovancouver.org/services/air/management/ReviewProcess/Pages/default.aspx>

6. Membership Sub-Committee

- Kathy Mezei volunteered to fill the vacant position on the Membership Sub-Committee with Art Quan her back-up when she is away.

NEW BUSINESS

1. Movie Night

- Ray Lord announced that planning is in full swing for the Refinery's 4th Annual Movie in the Park scheduled for August 28th at Confederation Park. Additional information will be published in the upcoming newsletter.

NEXT MEETING

- Thursday, September 15, 2011