



Parkland
REFINING (B.C.) LTD.

Community Advisory Panel (CAP) Q1 Meeting



March 17, 2021



Meeting Agenda

Topic	Presenter	Time Guide
1. Introduction and technical allotment	Judy Kirk	5 minutes
2. Operational update Q&A	Kate Groves	5 minutes
3. Health and Safety update Q&A	Nick Middleton	5 minutes
4. Metro Vancouver Update Q&A	Jason Mushtuk	10 minutes
5. Traffic update - <i>Traffic letter discussion</i> - <i>Traffic report summary</i> - <i>Gamma Ave. traffic discussion</i> Q&A	Jonathan Tyler	20 minutes
6. Roundtable	Judy Kirk	30 minutes



Operational Update

1. Air permit update

- Our requested 18-month air permit extension was granted by Metro Vancouver in January 2021, our current expires July 2022.
- In the next 18 months we will complete required technology studies to identify emission reduction opportunities.
- Another period of public consultation will occur late this year or early 2022 on the next set of proposed changes.

2. Flare update

- Some equipment related to the steam supply to the flare was replaced in January 2021.
- On February 5, 2021 flare steam tuning was performed with the goal to prevent over-steaming during elevated flare events.
- The tuning was completed on February 5th and we are observing improved flare noise.
- We continue to adjust as needed when different flaring scenarios occur.



Operational Update - Continued

4. Planned maintenance work

- A Level One Advisory was issued on Thursday, February 25th regarding planned maintenance work on a unit at the refinery.
- This work was completed safely and reliably as per the schedule.

5. Safety and Environmental Update

- There was one exceedance since our last meeting which was a small amount of Liquefied Petroleum Gas (LPG) that was released to atmosphere on December 22nd, 2020 and reported as required to Emergency Management BC.
- The spill to air was due to LPG leaking through a pin sized hole that developed in a pipe due to corrosion under insulation.
- The release volume was over the reporting threshold of 10kg for LPG.
- There has been one recordable injury since the last CAP meeting.



Operational Update

Question and Answer Session



Health & Safety Update

- COVID-19 update
- Website feedback
 - What is working well?
 - Refinery status banner





Health & Safety Update

Question and Answer Session



Metro Vancouver Update

- Jason Mushtuk, Metro Vancouver



Question and Answer Session



Traffic Update: Traffic Letter Summary – Concerns raised by CAP

Community Concern	Measures taken by Parkland	External support required
Traffic noise	Reinforce considerate driving practices to workforce	RCMP enforcement Change of traffic flow through Capitol Hill
Speed on Gamma	Reinforce considerate driving practices to workforce	RCMP enforcement
Early morning traffic (~5:30 am)	Where possible, we have staggered start and end times We have investigated shift time change and it is not possible	Infrastructure planning support from the City of Burnaby
Turnaround traffic volume	Traffic control (flaggers), offsite parking with shuttle bus service, incentives to use offsite parking, and carpool incentives (before COVID-19), installation of “No Left-Turn” signs	Understanding implications of “hard measures” such as permanently closing Gamma & Beta, signal light synchronization/coordination with the City of Burnaby
General volume in neighborhoods	Respond to community concerns and offer mitigations where available	Infrastructure planning support from the City of Burnaby

- Thank you for the CAP letter dated January 13, 2021 and for raising traffic concerns



Traffic Update: Traffic Letter Summary – Concerns Raised by Community

- Many of the same concerns were raised in a letter dated March 2, 2021 from a community member. This letter was originally sent to the City on May 24, 2019.
- The main concern outlined includes the use of the Gamma parking lot, as well as its purpose as stated in the PPA
- Other concerns include:
 - Light pollution from early morning/late night traffic
 - Unsafe driving along N. Gamma and Penzance
 - Noise pollution during the early hours of the morning
 - Traffic signs obstructing community parking
 - Heavy back-ups on N. Willingdon during rush hour



Traffic Update: Gamma Parking Lot

- The long-term vision with the Gamma parking lot is to improve **containment of our work activities within our own fence line and to minimize impact to the surrounding community**
- No usage restrictions were required as part of the PPA approval for the Gamma Parking Lot
- The Gamma parking lot:
 - Provides required contractor parking, aids in the management of movement of workers, and leads to better scheduling and of use of facilities and reduced inconvenience to the Burnaby neighbourhood
 - Reopened in January 2021 to accommodate overflow employee and contractor parking needs
 - Due to COVID-19 and the inability to carpool, **the parking lot will be open throughout 2021**
 - The design of the Gamma lot itself does not contribute to traffic through Capitol Hill as all traffic must turn right (westbound) and exit along Penzance.
 - We have flag people to direct traffic.
 - We cannot ask our flag people to physically block traffic – this poses a safety risk
 - Right now, the parking lot is **not near capacity**. It is simply being used to accommodate extra employee vehicles.
 - The City of Burnaby conducted an onsite traffic observation in February 2021, and concluded that traffic from our facility and parking lot “**did not indicate any significant problems relative to expected traffic volumes along a residential street for the hour between 5-6pm (about 70 vehicles)**” – City of Burnaby, February 2021



Traffic Update: McElhanney Traffic Report Summary

Key Findings:

For Traffic Originating from east end of Penzance:

- Regular commuters contribute to local traffic
- Parkland-related traffic accounts for ~2% of total traffic
 - Parkland actively manages the traffic from their facility
- Left turn restrictions (Beta / Gamma at Penzance) are effective at reducing workforce traffic on these streets
- Compared to the 2019 conditions, background traffic operations in 2024 are expected to degrade slightly at the study intersections.



PARKLAND BURNABY REFINERY VIA MCELHANNEY
TRAFFIC REPORT SUMMARY

Parkland Burnaby Refinery via McElhanney Traffic Report Summary

PURPOSE:

In 2019, Parkland Refining (B.C.) Ltd. (Parkland) commissioned a "Traffic Management Study" that was carried out by McElhanney, an independent third-party engineering firm. The purpose of this technical report was to review traffic operations generally within the Capitol Hill neighborhood in Burnaby, B.C. from North Willingdon Avenue to Gamma Avenue, and from Penzance Drive to East Hastings Street.

This study evaluates street light data from mid-2017 to 2019, and also the AM and PM weekday peak hour conditions in years 2019 (existing conditions) and 2024 (5-year horizon year). Information from this study will inform what measures could be taken to address traffic concerns within our neighbourhood – this includes the impact to our local residents and the Parkland workforce travelling to and from the facility.

WHAT WAS STUDIED:

Parkland Burnaby Refinery is located at 5201 Penzance Drive in Burnaby, British Columbia, which is the main location of interest and is also known as Refinery Area 2. The other secondary location, known as Refinery Area 1 is located on 355 North Willingdon Avenue. The primary focus of the McElhanney study was Refinery Area 2 on Penzance Drive. With a rise in traffic volumes on the surrounding road network accompanied by increased refinery traffic, the roads in the area are experiencing congestion and delays, frustrating the residents in the neighbourhood. To consider further mitigations that may be required for existing and potential future challenges, traffic conditions at ten (10) study intersections were reviewed, which are presented in Table 1.

In addition, origin-destination traffic patterns to and from the Parkland Burnaby Refinery were reviewed to determine traffic patterns around the Refinery and through the Capitol Hill neighbourhood.



Parkland Burnaby Refinery via McElhanney Traffic Report Summary | 1



Traffic Update: Upcoming and continued internal work

- Share Traffic Report and plan consultant-hosted webinar to further explain the report
 - April or May timeframe
- Continue engaging with the City of Burnaby on joint mitigations
- Continue to use flag staff as required to manage traffic
- Monitor workforce head count to decide when to have “No Left-Turns 5 – 7 am/pm”
 - Implement “No Left Turn” sign when traffic to/from parking lot increases due to a maintenance event
- Advocate for solutions that benefit all stakeholders (City / neighbours / Parkland workforce) for reduction & management of traffic queuing along Penzance and Willingdon



Traffic Update: External support required

- As concluded in the McElhanney Traffic Study, **regular commuter traffic** is the main contributor to congestion in the Capitol Hill community
- With increasing population density in general, traffic will continue to be an issue in our community
- We will continue to work collaboratively with the City of Burnaby to look for solutions to mitigate traffic
- A City review of existing infrastructure is needed to mitigate traffic
 - Traffic calming measures
 - Traffic light synchronization
 - Increased RCMP presence



Traffic & Parking Update

Question and Answer Session



Roundtable Discussion



APPENDIX: Traffic Study Update



Origination / Destination map based on traffic data from 2017 to 2019;
Origination from east end of Penzance Drive, PM period