

Wednesday, March 30, 2022 6:00 PM to 7:30 PM In-Person at SOLO / Teams Meeting Link Link: <u>CAP_Q1 Meeting</u>

Facilitator: Andrea Manchon, Argyle Note taker: Christie Libby, Argyle

	Attendees		
Parkland	Alex Coles	САР	Amy Smith (virtual)
	Vicki Bowman (virtual)		Aswinee Rath
	Kate Groves		Brian Clive
	Nick Middleton		Davis Vaitkunas
	Rajvir Rao		Judith Roche
	Peter Turner		Kathy Mezei
	Jessica Bermudez		Michele Joel
WSP	Francis Ries		Tony Bosello
Guest	Gord Locke		Dominic Flanagan
Speaker/Presenter			(potential new CAP
			member)
Metro Vancouver	Jason Mushtuk (virtual)		Enda Brophy (potential
			new CAP member)
	Darrell Wakelin	City of Burnaby	Erica Lay
	(virtual)		
Regrets	Stanis Smith		
	Dan Wood		

Regrets: Stanis Smith and Dan Wood

1	Welcome and Introductions	
	A.Manchon (facilitator) welcomed attendees and gave a brief land	Andrea
	acknowledgement before reviewing the agenda for the meeting. A.	Manchon
	Manchon explained the meeting approach will be slightly different from	
	previous CAP meetings. The meeting is an opportunity for the Parkland	
	team to share highlights from the materials that were shared in advance as	
	well as an opportunity for discussion and questions from CAP members.	
	There will be one presentation delivered by a guest speaker, Gord, a	
	discussion format throughout the meeting is welcomed.	
	A.Manchon introduced two potential new CAP members: Dominic Flanagan	
	and Enda Brophy. Each provided a brief summary of their background and	
	interest in joining CAP.	
	 Dominic has a background in housing and health, moved into the 	
	Heights neighbourhood approximately 19 years ago and has an	





	Environment	Kate Groves
	There were no questions.	
	Safety There was a minor injury in March (sprained ankle) requiring restricted duties for limited time.	Kate Groves
	There were no questions.	Kata Craves
	Parkland continues to do COVID screens and are seeing low transmission rates. Will be welcoming workers back to office soon (April) and have removed mask mandate. Staff are maintaining daily health checks and maintaining physical distancing where possible.	
3a	Health	Kate Grove
3	Refinery Updates	
	There were no questions.	
	Hats Off Day) . He also mentioned the incredible efforts made by Parkland staff during the November flooding events to enable emergency response efforts to continue to support communities and welcomed Erica Lay from the City of Burnaby attending her first CAP meeting tonight.	
	A.Coles referenced the refinery has had a strong history of contributing to the community and looks forward to community events returning soon (e.g.	
	A.Coles (Parkland) welcomed everyone and thanked them for participating acknowledging it is great to see so many and get back to meeting in person.	Alex Coles
2	General Manager Update	
	There were no questions.	
	R.Rao (Parkland) added Parkland has 699 parking spots for contractors and employees and confirmed there are enough parking spots for everyone and no residential street parking required.	
	A.Manchon mentioned there were two outstanding items from the previous meeting held in December with respect to tree removal, traffic throughput. The follow up responses were provided in the meeting package in addition to an update from the Emergency Notification Committee.	
	N.Middleton (Parkland) provided instructions on how to safely evacuate from the room in the event of an emergency and described where the washrooms are located.	
	 refinery. Enda teaches at SFU, has lived in the neighbourhood for 6 years and has an interest in knowing more about Parkland's operations in the nighbourhood. 	





There were 3 minor reportable environmental incidents last quarter. None affected the public. When refinery was re-started in mid-December there was a small release of LPG to atmosphere caused by a valve malfunction; reported to Ministry of Environment. Detected by operations and were able to make necessary repair immediately. Some refinery equipment was challenged during seasonably low temperatures in late Dec (-20); e.g. instrumentation on furnace and SRU stopped reading so safety system shut it down and restart caused an exceedance of SO² from SRU for 2 hours total. A small valve leak occurred and was immediately repaired; spill to air was reported to the Ministry of Environment Q&A M.Joel inquired if this type of occurrence is preventable in the future and how other refineries are designed to operate in colder climates. K.Groves explained the Burnaby refinery is not designed the same as colder climate refineries such as Edmonton. The Burnaby Refinery is designed to operate in temperatures of -25C and there are a number of steps operations take each year to prepare the refinery for cold weather. Each year staff are learning from previous issues to make necessary adjustments and improvements. It is taken very seriously. A.Smith asked if the frequency of these exceedances (every couple weeks) during cold weather is typical compared to other similar sized refineries. K.Groves noted there were two quite significant events in December: a total refinery restart and extreme cold weather. With windchill and sustained cold temperatures near -20 C over several days, some instruments were affected. K.Groves explained that since more robust safety units were upgraded in the 2020 turn around to enable safe, quick shut down in the event of an emergency and are investigating and taking action to address root causes. K. Groves offered to provide publicly available historical data on SRU exceedances if this is of interest. ACTION: Parkland to provide CAP members with publicly available historical data on SRU exceedances. D.Wakelin added quarterly reporting emission testing monitoring results are posted publicly on Metro Vancouver's website as a requirement of their permit. (http://www.metrovancouver.org/services/Permits-regulationsenforcement/air-quality/reports/Pages/default.aspx) D.Vaitkunas asked how long the refinery was without input fuel following the flooding events and inquired if Parkland received fuel transported by rail. A.Coles noted a couple of weeks and Parkland did not receive any product by rail. He explained the refinery operated for about a week with inventory then shut down when it became clear the Trans Mountain pipeline was not





-		
	going to restart. Refinery took about two weeks to receive crude again once	
	pipeline service was restarted.	.
	Projects	Peter Turner
	P.Turner (Parkland) provided a brief update on refinery projects previously	
	discussed with CAP in 2021.	
	The park pipeline project planning continues in consultation with local	
	government and non-government stakeholders. Some work has occurred,	
	including removal of 59 trees, but the schedule has shifted slightly and will	
	still take approximately 6 months to complete. Public access to the trail will	
	be maintained. There is an agreement in place with City of Burnaby to	
	replace trees and Parkland is committed to replanting significantly more	
	trees than what have been removed. 59 have been replanted to date and	
	Parkland is looking for opportunities to plant about 300 more on refinery	
	property or in community. CAP member (M.Joel) indicated the community	
	had ideas to share with Parkland for planting in Capitol Hill.	
	ACTION: Rajvir will collect community ideas for replanting trees in and	
	around the refinery.	
	It has been determined the Area 2 Swing Tank project is not required at this	
	time so it has been placed on hold. It is possible it will be required at some	
point in the future and Parkland will keep CAP informed if these plans are		
developed further.		
	The 4 new tanks for bio feed and renewables in Area 1 are still in	
	development; no change since last meeting. Parkland will take the same	
	approach to tree removal/replanting for this project.	
	Q&A	
	K.Mezei asked what can be done if neighbours notice recently planted trees	
	are not doing well/dying (along the Trans Canada trail and inside Parkland's	
	property)	
	P.Turner noted there is a plan to maintain replanted trees (watering	
schedule etc) and any that die will be replaced. Community can let City of		
	Burnaby know about trees on city property and Parkland with respect to	
	trees on Parkland property.	
4	Air Permit Consultation	
	V.Bowman (Parkland) provided a brief overview of air permit renewal	Vicki Bowman
	application process underway with Metro Vancouver and consultation that	
	has occurred to date. She also touched on the highlights provided in the	
	meeting materials (e.g. air quality permit regulations and Human Health	
	Risk studies). The existing permit expires in July 2022 and Parkland has	
	applied to Metro Vancouver for a 10 year renewal. A public information	
	session was held in March and Parkland continues to welcome comments	
	from public and will respond. Comments will also be taken into	
consideration by Metro Vancouver. Parkland must and will meet newly		
	developed requirements in air quality regulations (all levels of government)	





irrespective of the air permit term limit. Parkland will meet any new	
regulations that come into effect during the next 10 years.	
 A.Smith asked for clarification on the terms 'amended permit maximum' and 'amended permit normal'. V.Bowman explained permit process requires Parkland to apply for maximum achievable emission rate that could be theoretically achieved but in reality refinery never operates with every single source at permit maximum emission levels. Amended permit normal represents expected emissions levels during normal operating conditions. 	
A.Smith provided feedback that she is aware there were members of public who did not know about the public information session in time due to post card invite arriving after the event. Is it worth mentioning she also provided positive feedback, giving 'kudos' to Parkland for hosting the information session?	
R.Rao thanked A.Smith for the feedback and apologized explaining there was a delay with Canada Post and delivery a week prior to the event did not happen as it was planned. We will ensure more delivery time is accounted for next time.	
Clarification was sought regarding a concern about the 10 year limit not being flexible enough to account for any changes over the next 10 years. Is it true if a regulator deems change must be made then Parkland must make that change?	
D.Wakelin spoke about Metro Vancouver's process and ability within their legislation to open up a permit and make changes if deemed necessary to protect the environment. He explained there are conditions that restrict how they do this.	
V.Bowman added any new requirements that come about Parkland is required regardless of Metro Vancouver permit to comply. There are a few different regulatory layers with respect to air quality. E.g. Parkland was required to comply with federal Environment Canada program reduction on volatile organic compounds during the existing permit term.	
Human Health Risk Assessment	Francis Ries
F.Ries (WSP) walked meeting participants through the highlights of the presentation available in the meeting materials summarizing the process and results of the Human Health Risk Assessment (HHRA) conducted by WSP on behalf of Parkland as part of the air permit application. A brief overview of the four different study scenarios was provided leading up to discussion and questions.	
Q&A	



Τ



Τ

-	Question 1: Page 2 of the WSP HHRA states that two health impact	
	assessments were performed, in 2002 and 2013 respectively. A	
	HHRA predicts the likelihood of harmful health effects that may	
	occur should people be exposed to contaminants. One has to	
	assume that the science has progressed in the past 9 years and that	
	the criteria/standards used for predicting health effects have	
	become more stringent. Is the current HHRA based on current	
	criteria/standards or on criteria/standards that are 9 (or more)	
	years old?	
-	F.Ries pointed to table 5-13 on page 59 of the HHRA report in his	
	response and explained the adoption date (date in which various	
	values were published by authorities) range from 2003 – 2021	
	depending on pollutant and whether it is acute or chronic value.	
	The HHRA looked to use the most current value that is also	
	scientifically well supported.	
_	Question 2: Page 10 of the HHRA shows a map indicating the	
-	Sulphur Dioxide health risks for the amended permit, and there is	
	still a zone that is identified as being at risk (even though that zone	
	is significantly reduced from the current permit maximum). At the	
	recent public meeting, someone, I believe it was a Parkland	
	representative, stated that the potential for an exceedance beyond	
	the requested new maximum to occur was practically zero. If that's	
	the case, then why should any Sulphur Dioxide health risk be	
	acceptable or any exceedance be permitted under the amended	
_	application?	
-	F.Ries reiterated what V.Bowman explained with respect to the difference between amended permit maximum and amended	
	permit normal scenarios. Under the former we predict one hour per year at one location where we see exceedance of health threshold	
	,	
	value for SO ₂ ⁱ under the normal scenario that goes away. The latter	
	is there because Metro Vancouver requires it however we believe a normal scenario is more representative of what is likely to happen.	
	Feedback 'why not go further and reduce that' is good feedback for	
	Metro Vancouver to hear.	
	V.Bowman restated with the normal scenario we don't see any	
-	exceedances at all.	
	s asked what would happen if he is walking down the trail and	
	ning 'goes wrong' [with respect to emissions exceedance.]	
	explained that the purpose of an HHRA is not to predict individual outcomes, but to look to health science literature to see what would	





reference value chosen for SO ₂ is conservative, based on protecting	
someone with asthma from having an asthma attack. The science suggests	
someone who does not have asthma wouldn't likely see effects.	
,	
K.Mezei asked about the primary health effect symbols included on a chart	
in the HHRA presentation, one of which shows a drop of liquid, and another	
which shows two interlocking "C"s.	
F.Ries explained that the drop symbol represents blood related effects for	
benzene and pointed her to Section of 5 of the HHRA report for the	
discussion of benzene health effects. The other symbol is the international	
symbol for carcinogens, as both benzene and 1,3-butadiene have been	
determined to be carcinogenic.	
K Masai commented that a 2002 report stated the synastation is one more	
K.Mezei commented that a 2002 report stated the expectation is one more	
cancer patient or death than would be expected in the population normally	
and asked if these predictions can be made.	
F.Ries explained that the 2022 HHRA uses the same approach to assessing	
cancer risks as the 2002 study and explained how the risk assessment	
model works with Health Canada setting threshold levels of incremental	
lifetime cancer risk (1 in 100,000). He also noted the study looked at public	
health data available for area around the Burnaby Refinery and saw cancer	
incidence levels below provincial averages (ie nothing stood out).	
K.Mezei asked if it would be a good idea to monitor Capitol Hill for these	
two pollutants (benzene and 1,3-butadiene).	
F.Ries noted Metro Vancouver, as the operator of those stations, makes the	
final decision on what pollutants will be monitored at each station. He also	
noted that the VOC data (including benzene and 1,3-butadiene) being	
collected by Parkland to meet Environment Canada's new requirement for	
fence line monitoring likely provides a more useful dataset for additional	
assessment of VOC-related health risks.	
E.Brophy asked if the assessment takes into account exposure for workers	
on site at the refinery.	
F.Ries noted that the scope of Metro Vancouver air permit only includes	
exposures to public outside of the refinery, and therefore occupation	
exposures were not part of the current study scope.	
A.Coles noted there are different regulations that govern health and safety	
of workers inside the refinery.	
N. Middleton noted personal protective equipment procedures are there to	
protect employees if needed.	
A.Rath asked who reviews the HHRA and how their feedback is recorded.	
F.Ries noted Fraser Health, Vancouver Coastal Health and First Nations	
Health Authority are all reviewing and will submit their feedback to Metro	
Vancouver. All feedback will be responded to and intent is to publicly share	
this feedback and WSP's responses.	
D.Wakelin explained within Metro Vancouver process Metro Vancouver are	
not human health experts therefore they rely on partners in health regions	





-		
	 (Vancouver Coastal Health and Fraser Health). Feedback provided to Metro Vancouver is taken into consideration for the permit application and also shared with Parkland. A.Rath asked how the community can interpret the results. F.Ries noted results have been summarized for public interpretation in the summary report and presentation shared with the CAP. Any changes from what has been communicated to date arising from comments from Metro Vancouver the Health Authorities will be shared with CAP members again. V.Bowman noted Parkland in addition to Fraser Health and Vancouver Coastal Health, the HHRA work plan and study have been submitted to First Nations Health Authority for their review and comments. Parkland will be transparent with feedback and are always willing to answer more questions. ACTION: Keep CAP members and public informed on HHRA feedback from all 3 health authority) and summarize responses and any changes. D.Wakelin noted something the CAP may wish to consider is extending an invite to health authority to attend a future meeting if there is interest in this topic. 	
-		
5	Metro Vancouver Air quality concerns and inquiries update	Jason Mushtuk
	 J.Mushtuk (Metro Vancouver) gave an overview of their regulatory role permitting refinery activities. Monitoring results can be found on their website. Highlights from summary report provided in meeting materials included: Working through 39 notifications from refinery (compared to 11 last year). Majority from late December. Some related to stale data. 28 odour complaints (compared to 45 last year) No issues so far this year with liquid waste discharge permit. This is an improvement since last year. Saw elevated ambient SO2 for 2 hours in late December With respect to permit application, added they are conducting review and provided a reminder public comment period is open until April 9^{th.} Any comments after April 9th will still be received up until permit decision. 	
6	City of Burnaby	
	Erica Lay introduced herself as Manager, Climate Action and Energy.	Erica Lay
	Erica Lay introduced herself as Manager, Climate Action and Energy. There were no questions or comments.	Erica Lay
7	Erica Lay introduced herself as Manager, Climate Action and Energy.	Erica Lay Rajvir Rao





	have been updated. Orientation packages are available for each CAP member to take home with them. CAP will start using basecamp app to communicate and organize meeting materials. Instructions on how to download and use will be provided. Individual CAP members are invited and	
	encouraged to participate in a survey that will be conducted by Argyle soon. There were no questions.	
	G. delivered a presentation about the Volunteer Cancer Driver's Society, an organization Parkland is proud to support in the community.	Gord Locke
8	Roundtable Discussion	
	No further discussion.	
9	Acceptance of CAP Members Vote	Andrea Manchon
	A vote was conducted and the two new members were unanimously	
	accepted to join CAP.	
	The meeting ended at 7:36 p.m.	

Follov	v up Actions	Deadline
1	ACTION: Parkland to provide CAP members with publicly available historical data on SRU exceedances.	May 2022
2	ACTION: Rajvir will collect community ideas for replanting trees in and around the refinery.	April – June 2022
3	ACTION: Keep CAP members and public informed on HHRA feedback from health authorities and summarize any changes or responses.	Ongoing

