

**Chemtrade Logistics-ERCO Worldwide-UNIVAR-Terrapure Environmental
North Shore Community Advisory Panel (CAP)
MEETING SUMMARY NOTES
Vancouver Maritime Museum, 1905 Ogden Avenue
Refreshments & Tour at 5:30 pm /Dinner & Meeting 7:00 pm to 8:00 pm
Tuesday, June 20, 2017**

Attendance

Robin Lee, Univar
Rick Denton, Chemtrade Logistics
Rob Schultz, Chemtrade Logistics
Tony Gutenberg, Chemtrade Logistics
Tom Miller, ERCO Worldwide
Steve Spence, Terrapure Environmental
Mike Andrews, NSEM
John Miller, Lower Capilano Residents Assoc.
Stuart Porter-Hogan, Maplewood
Community Association
Sharon Porter, Resident
Dave Mair, Resident
Val Hammerberg, Resident
Lisa Richardson, Resident

Regrets

Karen Rendek, DNV
Dan Cantafio, Terrapure Environmental
Carleen Thomas, Wild Bird Trust
Kevin Bell, Wild Bird Trust
Dorit Mason, Resident
Duncan Webb, Port of Vancouver
Cathy Brydon, Resident

1. Tour of Maritime Museum Ship

CAP members had the opportunity to tour the RCMP St Roch ship at the Maritime Museum.

2. Review of May meeting notes

The CAP facilitator highlighted the presentation by the North Shore Streamkeepers, and confirmed that members were clear on their funding request and how to contact them.

Univar announced a donation of \$1500 for the Wild Bird Trust.

A member requested the discussion about the CN train capability that occurred in the May meeting be captured. The discussion centered around the tunnel, not the bridge, as the problem impacting train capacity issues. Infrastructure funding is needed.

3. CAP Outreach – Community Engagement Update

The facilitator reviewed the discussion from the last CAP meeting, specifically the creation of a one pager that provided people interested in CAP with the most important information.

The consensus was confirmed that this one page information sheet would contain static information, and there could be a column with information that could change when required.

Members of community associations could then contribute to community newsletters by including the static information on CAP and highlights of recent information based on the meeting minutes.

Stuart Porter presented a version of the one pager that he had drafted for CAP members to review.

The facilitator will relook at the one pager and present a revised version to members at the September CAP meeting for members' approval.

4. Maplewood Community Planning Process Update

On Wednesday, June 21st, there will be a Maplewood Community Plan Open House, which marks phase 2 of the process. This is an opportunity for community members to review how their input has shaped the Maplewood Community Plan and provide feedback on the draft plan. There will be a further opportunity on Sunday at Tong's. An online survey will also be available for two weeks after the Open House. The goal is to have the plan ready by Thanksgiving in October.

The District is ready to support live-work campuses for different industries. A question was raised about the implication for Canadian labour of Canada Revenue changing the laws around importing foreign currency. John Miller could speak with the Senior Planner at DNV about this question.

5. CAP 2016/2017 Evaluation

CAP members evaluated CAP using the same categories as last year.

The evaluation results showed that members are happy with the organization of CAP meetings, as well as mostly happy with the meeting culture and conversations with the companies. As in the previous year's evaluation, there is only partial satisfaction with CAP involvement in the local community, community participation on CAP and community awareness of CAP. The detailed results of the evaluation are attached.

6. Reports from the Companies:

a) Chemtrade

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North Shore Community Advisory Panel (CAP)*

Rick Denton reported that there have been no new Safety, Environmental or Security incidents since the last CAP meeting. There was a minor Transportation incident, when a caustic railcar developed a minor leak from the bottom valve gasket while enroute to customer in Prince George. There was a leak between the car and the valve body, that had not been identified when the car was checked. A crew was immediately dispatched to tighten the flange and stop the leak and the car proceeded on to customer without incident.

Chemtrade continues to perform outreach as part of Responsible Care in the community and has done multiple tours for high school students in the Lower Mainland to introduce them to its products and their contribution to society.

Members had questions about the volume of production and shipping locations of Chemtrade. 2017 Production is estimated to be around 195,000 metric tonnes, with the main shipping locations for Caustic Soda being in BC and Alberta, for Hydrochloric Acid in Alberta and the US Midwest, and for chlorine to mostly the West coast and primarily into California.

b) ERCO Worldwide

Tom Miller reported that there have been no reportable Safety or Environmental incidents. The plant has operated at capacity except for a process issue on Line 8 on June 1st. Cell liquor was observed in the gas header, causing a voltage imbalance. The plant was shut down to troubleshoot the issue. It was found that the liquor recirculation piping had failed between reactors 815-816. The Halar liner had separated from the fiberglass piping restricting liquor flow, causing the liquor to go into gas header. A temporary fiberglass spool piece was fabricated to replace the failed section of piping. The cause was a fabrication issue, as the failed piping was only 2 years old.

The plant celebrated Corporate Safety week starting June 5th. As part of an initiative of the North Shore Waterfront, ERCO employees provided two industry awareness sessions to a North Shore elementary school in May.

ERCO is currently planning for a 1-week plant outage for capital installations and major maintenance starting on October 10th.

A LOPA process study (Layers of Protection Analysis) will be performed on cell line 8 during the week of November 13th to see if any process safety improvements can be made. This study will involve corporate and site engineers, maintenance and operations.

c) Univar

Robin Lee reported that Univar had no reportable Safety or Environmental incidents since the last CAP meeting. A valve leak had occurred while loading an ethanol truck. It had been repaired prior to shipping.

The Univar facility has seen steady volumes and there is ongoing demand for moving production through the Port. Robin highlighted that for the Port of Vancouver overall, there

had been 30 million tonnes more in the last 5 years and the same could be expected for the next 5 years. The question is how do you continue to move more product reliably, safely and sustainably; the Port of Vancouver reiterated its commitment to sustainability at their most recent AGM in June.

Additional longshore training had been successfully completed at the site, and ongoing maintenance projects were underway and being planned.

Univar completed school visits as part of the Maritime Museum Harbour Tour program with North Shore Waterfront Industrial Association Group. A donation of \$1500 to the Wild Bird Trust had been approved. The plant completed a Health & Safety Audit Review with Shell Chemical.

d) Terrapure Environmental

Steve Spence reported that there were no Safety or Environmental incidents to report.

Terrapure has implemented an action plan to improve their ability to react, find and correct odour causing activities to decrease the frequency and duration of fugitive odour events. This has included updating the plant's Standard Operating Procedure for responding to odour complaints; installing a new weather station to log conditions during a fugitive odour event; and conducting a 'Mock' Emergency to simulate a fugitive odour incident. During this process, they discovered that identification of specific point sources occurs faster with the help of other departments.

Staff at Terrapure maintain ongoing core training in the following areas: H2S alive, Confined Space Awareness, WHMIS, TDG and First Aid.

There was a question from a CAP member about having a plant tour, and Steve confirmed that Terrapure would offer this during the next CAP year.

7. NSEM Update

Mike Andrews mentioned that NSEM was refocusing its efforts on operational readiness and protocols for the first hour of emergency. On June 30th, there would be a short test of the North Shore developed updated smart-phone evacuation application. This would be done between 9am and 12pm and would take 20-30 minutes. Mike invited CAP members who wanted to participate to contact him. NSEM also offered to host the next CAP meeting in September.

8. Meeting Close

The meeting ended at 8:10pm. The next CAP meeting is scheduled for September 26th at NSEM.



Community Advisory Panel (CAP)

June 20, 2017 Briefing Notes

Responsible Care – Safety, Security, & Environmental:

- Safety: There have been no new Safety incidents since the last CAP meeting in May.
- Environmental: There have been no new Environmental incidents since the last CAP meeting in May.
- Security:
 - There have been no Security incidents since the last CAP meeting.
- Transportation:
 - There was one minor Transportation incident since the last CAP meeting. A caustic railcar developed a minor leak from the bottom valve gasket while enroute to customer in Prince George, BC. A crew was immediately dispatched to tighten the flange and stop the leak and the car proceeded on to customer without incident.
- Responsible Care in our Community:
 - The plant recently hosted some more student tours from Lower Mainland high schools – part of our regular outreach and opportunity to communicate the important work we do in making the products we do and how they contribute to our society overall.
 -

Plant Operations:

- The plant is currently operating at capacity levels and this is anticipated to continue through the balance of the year. The next planned shutdown will take place in April, 2018.



ERCO Worldwide Update

(since last report on May 25, 2017)

- **Operations**
 - Plant has operated at capacity, except for a process issue on Line 8 on June 1st. At this time, cell liquor was observed in the gas header, which caused a voltage imbalance. The plant was shut down to troubleshoot issue. It was found that the liquor recirculation piping had failed between reactors 815-816. The Halar liner had separated from the fiberglass piping restricting liquor flow, causing the liquor to go into gas header. A temporary fiberglass spool piece was fabricated to replace the failed section of piping. The failed piping was only 2 years old – fabrication issue.

- **Safety/Environmental**
 - No Recordable injuries or first aids – as of today, the employees have worked 399 days since last Recordable safety incident (05/17/16) & 2358 days since last Lost Time Accident (LTA).
 - Week of June 5th was corporate safety week. NV had safety presentations, chlorate demo fire, and a celebration barbeque.

- **Miscellaneous**
 - In May, ERCO employees provided industry awareness sessions (2) to a North Shore elementary school – which is an initiative of the North Shore Waterfront Industrial Association.
 - Planning is currently underway for a 1-week plant outage for capital installations and major maintenance starting on October 10th.
 - During week of November 13, a LOPA process study (Layers of Protection Analysis) will be performed on cell line 8 to see if any process safety improvements can be made. This study will involve corporate & site engineers, maintenance and operations.

Tom Miller

June 20, 2017

Current status

- Facility is currently operating at full capacity

Health, Safety and Environment

- Our facility continues to operate injury free
- Recently conducted and reviewed an odour complaint 'Mock' Emergency
 - Background – an increase in neighbors, both residential and commercial, has resulted in more awareness and reporting of fugitive odours potentially originating from the Terrapure facility.
 - Action plan – improve our ability to react, find and correct odour causing activities to decrease the frequency and duration of fugitive odour events.
 - Progress
 - Updated our Standard Operating Procedure for responding to odour complaints
 - Improved odour recovery by tying more point sources into our vapour recovery system
 - Installed a new weather station to log conditions during a fugitive odour event
 - Conducted a 'Mock' emergency to simulate a fugitive odour incident:
 - Used the steps identified in the SOP to check all possible sources, record conditions, correct problems and report findings
 - Discovered that with the help of other departments, identification of specific point sources occurs faster

Training and Audits

- Staff at our facility maintain on-going core training in five distinct areas; H2S alive, Confined Space Awareness, WHMIS, TDG and First Aid



Univar Canada update – June 2017

SAFETY/ENVIRONMENTAL

- No first aids or reportables (433 since last personal safety reportable)
- Ethanol truck loading valve leak – repaired prior to shipping

OPERATIONS

- Additional longshore training completed successfully
- Ongoing maintenance projects underway and being planned
- Expect steady volumes overall

RESPONSIBLE CARE & COMMUNITY

- School visits completed as part of Maritime Museum Harbour Tour program (with North Shore Waterfront Industrial Association Group)
- Donation to Wild Bird Trust approved
- Health & Safety Audit Review completed with Shell Chemical