***MEMORANDUM***

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| From: | Andrew MacKay, Envirochem | Date: | December 31, 2018 |
| To: | Anika Calder, VFPA  Tiffany Paul, ECCC | Cc: | Andre Olivier, PCT  Colin Reddin, PCT  Mark Adams, Envirowest |
| **RE:** | **SUMMARY VERSION**  **PACIFIC COAST TERMINAL DREDGE WEEKLY MONITORING REPORT #3**  **DECEMBER 10-16, 2018** | | |

This report summarizes monitoring of PAH affected sediment covering and commencement of capital dredge activities conducted in Port Moody Arm, BC for the week of December 10-16, 2018. All work continued under relevant permits issued by VFPA, ECCC, DFO and Transport Canada.

**OPERATIONS SUMMARY**

The third and last day of PAH affected sediment cover occurred on December 10. Marine surveys confirmed sediment was placed in the correct area and covered with a 1m cap as planned. Cutter suction operations completed dredging in the berth pockets. A five (5) meter leave strip adjacent to berth structures was left to avoid potential damage to the structures and equipment. Plans are to conduct precision clamshell dredging remove remaining sediment in this area.

**TURBIDITY MONITORING**

Open Water Monitoring

As per the predictive model, no exceedances of induced turbidity of 8 NTU over 24 hours were measured during PAH affected sediment covering or cutter suction operations. During monitoring it was noted that during heavy rains, turbidity from the nearby Schoolhouse Creek discharge can reach levels considerably higher than turbidity generated by dredging operations.

Shoreline Monitoring Results

Shoreline monitoring results for turbidity and suspended solids were consistent with background levels.

**FISH, MARINE MAMMAL AND CRAB SALVAGE OBSERVATIONS**

No dead or distressed fish or marine mammals were observed in the dredge or disposal works areas. Sub adult crabs (12) were salvaged and relocated prior to advancing cutter suction works.

**ARCHAEOLOGICAL**

No cultural (archaeological) artifacts were observed in the dredge or disposal works areas.