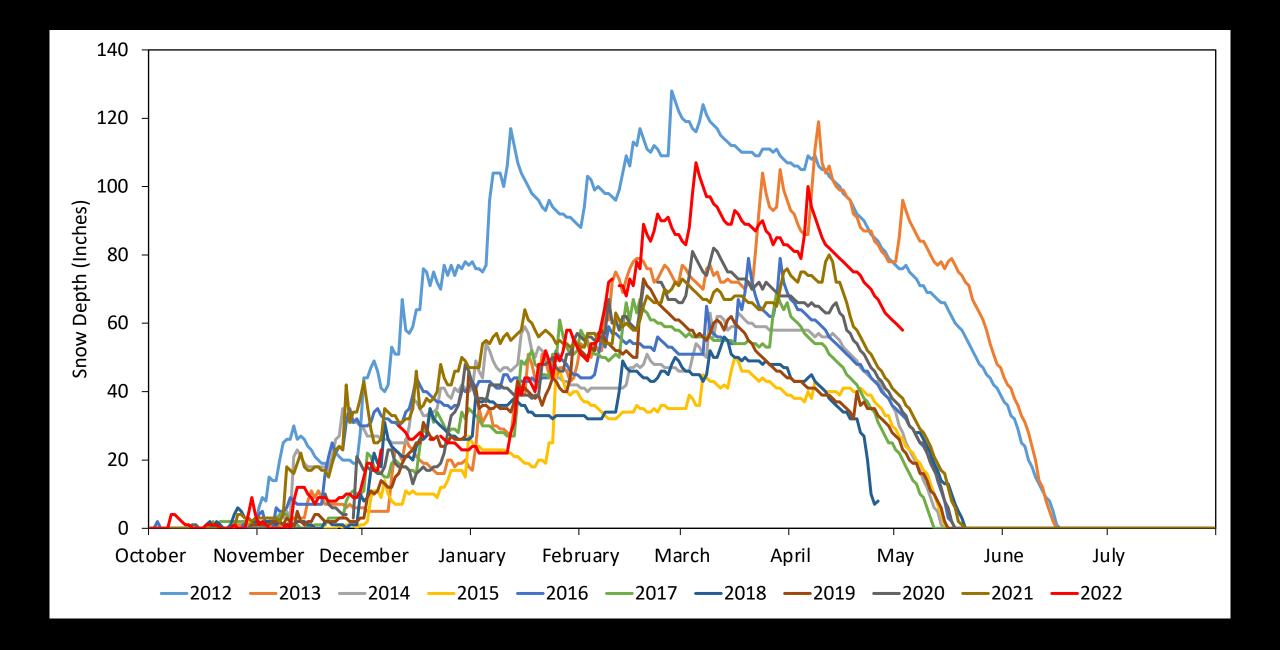


Crude Oil Tank Pressure-Vacuum Vent Damage

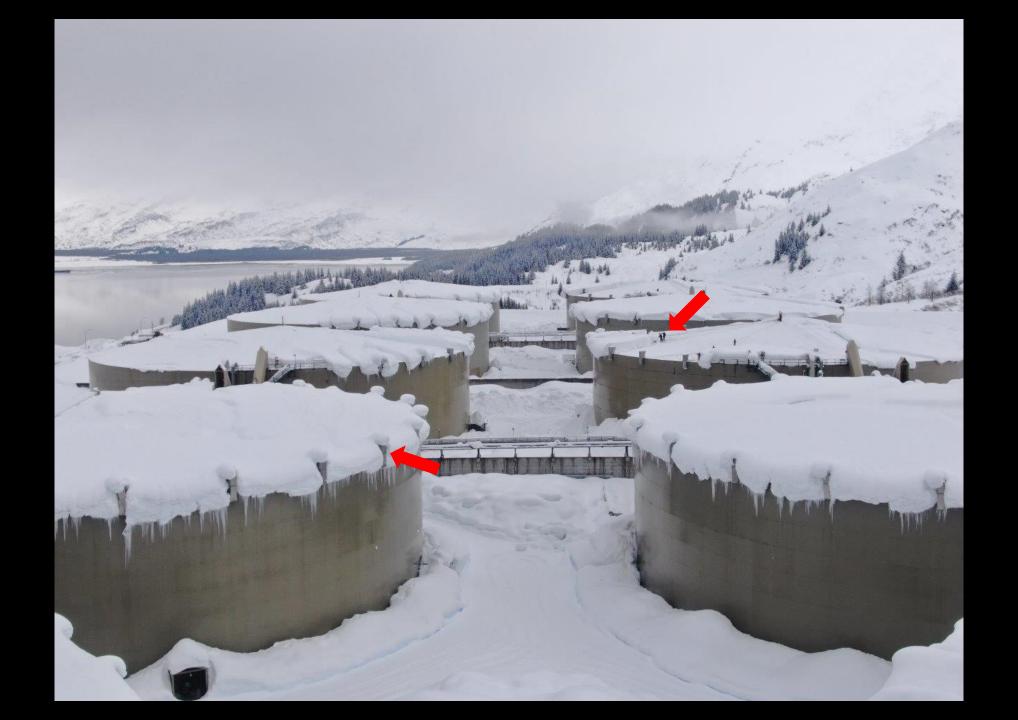
Austin Love & Bill Mott (Taku Engineering)

Prince William Sound Regional Citizens' Advisory Council

September 2022













Feb 25
First vent leak
identified

March 13 10 of 14 tanks "unavailable for use" March 28
Council sends
Alyeska imminent
risk letter

April 7
All 14 tanks
available for
use











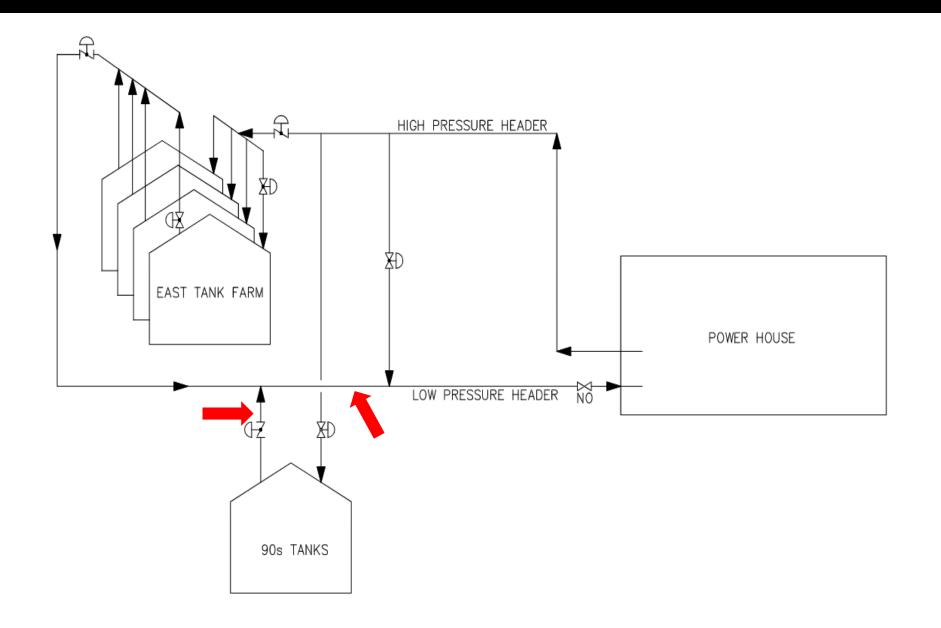




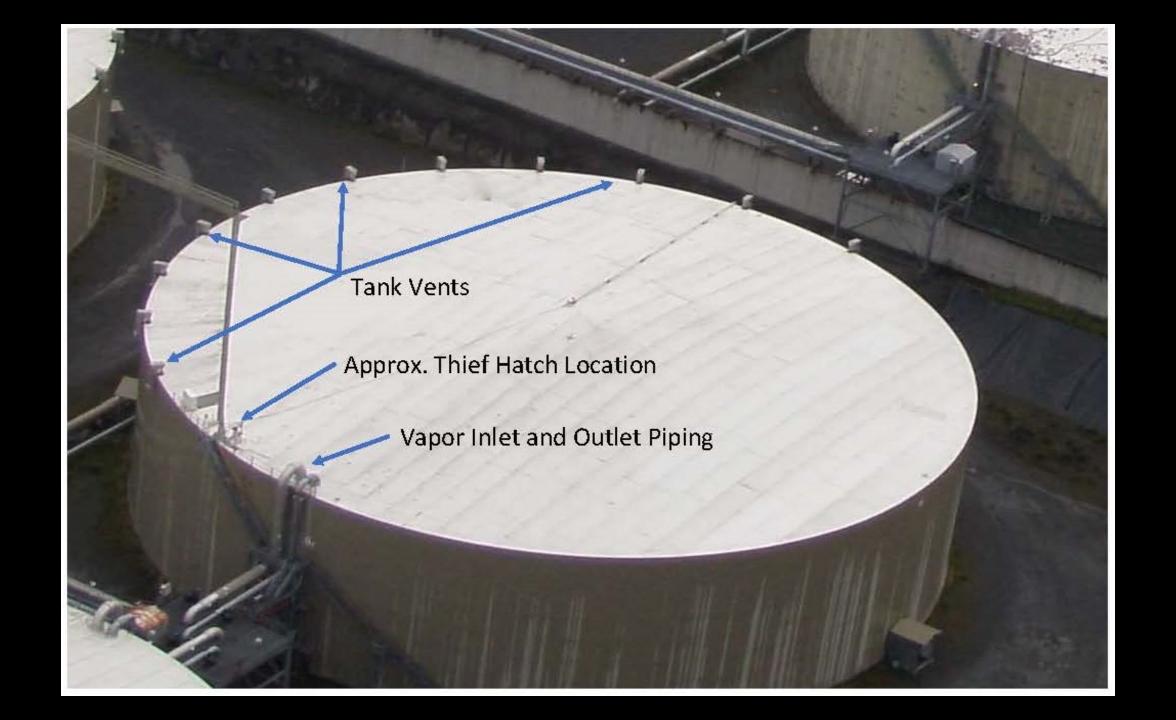
March 8
Alyeska informs
Council of
sheared vents

March 17
5.6 % Oxygen
measured in lowpressure vapor
piping

March 31
Council and
Taku
Engineering
VMT site visit



East Tank Farm Vacuum Vent Valve Tag Numbering Reference Alyeska Drawings D-50-M900 for Tank 1 D-50-M901 for Tank 2 D-50-M902 for Tank 3 D-50-M903 for Tank 4 D-50-M904 for Tank 5 D-50-M905 for Tank 6 D-50-M906 for Tank 7 D-50-M907 for Tank 8 D-50-M908 for Tank 9 D-50-M909 for Tank 10 D-50-M910 for Tank 11 CELL CELL CELL CELL CELL CELL D-50-M911 for Tank 12 D-50-M912 for Tank 13 D-50-M913 for Tank 14 Tank 2 Tank 4 Tank 6 Tank 8 Tank 10 Tank 12 Tank 14 54-PSV-1027 54-PSV-1023 54-PSV-1021 Access 54-PSV-1025 Access Access 54-PSV-1029 54-PSV-1031 Access A through J A through K A through K Tank 3 Tank 5 Tank 11 Tank 9 54-PSV-1020 Access Access 54-PSV-1022 54-PSV-1024 Scoon Access 54-PSV-1026 54-PSV-1028 54-PSV-1030 Access Access 54-PSV-1032 A through J A through J A through J A through J A through K A through K A through J Revision 1, 02-07-15 Created by: Joe Buck



TAKU INITIAL RECOMMENDATIONS

- More oxygen monitoring locations are needed
- Alyeska should work closely and openly with Council to better model the vapor system
- Alyeska should conduct an open lessons learned assessment including Council participation

Path Ahead

Continue monitoring vent repairs

Continue monitoring federal and state investigations and inquiries

Improve oxygen concentration analysis