



## Summary of Incident

---

- On August 15, 2019 at approximately 8am MT, Bonterra identified an imbalance and began investigation.
- At approximately 1pm, discovered that an emulsion pipeline (17170-1) situated on its leased lands had ruptured resulting in a release of emulsion of an estimated 40 m3 into Washout Creek. Bonterra immediately activated its Emergency Response Plan, including immediate containment procedures and mitigation plans associated with minimizing impact, as well as notification of all appropriate parties.

## Immediate Containment, Recovery and Monitoring

- Over 600 ft of booms were deployed across multiple locations (6-10) to contain and recover released fluids with the use of vac units. In addition, in areas not accessible by vehicle traffic, helicopters with barrel skimmers will be deployed to recover released fluids. Disposal of recovered fluids will be transported to an approved treatment, recovery, and disposal (TRD) facility.
- Plans have been put in place to mitigate the effect on wildlife, including setting up barriers, visual deterrents and physical human presence.
- Clean up and recovery is expected to continue for the next three weeks. The first week will involve intense recovery efforts as outlined above, while the following two weeks will include shoreline monitoring.
- Continuous monitoring and sampling to assess the ongoing effect of the release.

## SUMMARY OF DAILY OPERATIONS (24 HOURS)

---

BONTERRA August 30

- Continue with shoreline clean up. Recovered oil released from the shoreline clean-up in the river booms, removed collected oil with barrel vacs and disposed of at an approved treatment, recovery, and disposal (TRD) facility. Optimized existing booms to increase emulsion-catching efficiency. Continuous monitoring and sampling to assess the ongoing effect of the release.

## EXPECTED OPERATIONS FOR NEXT 24 HOURS

- Continue to maintain, monitor containment boom within Washout Creek.
- Continue with shoreline clean-up work starting upstream and working downstream into the boom sets. Recover oil released from the shoreline clean up in the river booms, remove the collected oil with barrel vacs and dispose at approved treatment, recovery, and disposal (TRD) facility.
- Continue wildlife monitoring.
- Conduct recovery/remediation operations.
- Collect surface water samples every three days as per monitoring plan.