

ALL Photos taken by Kris Neidel on 3/14/2019



Spill Point, note area of erosion, the pipe failed on the underside forcing fluid to erode the side bank of creek.



Spill point, pipe failure.



Evidence of recent surface flow in creek bed from spill.



Flowline crossing creek bed.



Impacted creek bed, dark staining had hydrocarbon smell and reflective surface .



Impacted creek bed, dark staining had hydrocarbon smell. Photo of impacted area.



Two Potholes were dug in creek bed, downstream from spill point. One pothole visible here, one approximately five feet below (near shadow)..



Two Potholes were dug in creek bed, downstream from spill point. This appears to be the end point.



Observed staining in creek bed. The staining that has a reflective shine to it appears to be remaining impact from spill, it had a strong hydrocarbon smell. Some black particles in creek bed is believed to be coal fines and small pieces of coal that have washed out of hills, this was present in the non-impacted part of creek.



Potholes and end of spill area.



Flowline that was crossing part of Vermillion Creek.



Vermillion Creek, spill area is just to the left of this photo, (spill area not in photo).



Note: two flowlines coming out of hillside. It was reported that the failed line is the one on left of photo.