

## Appendix 17: 2022 Non-Reportable Spills

**Table 1. 2022 non-reportable spills**

<i>Date and time of occurrence</i>	<i>Material Spilled</i>	<i>Estimated quantity</i>	<i>Unit</i>	<i>Exact location of incident</i>	<i>Description of incident</i>	<i>Describe immediate corrective actions</i>
<i>Sunday, January 09, 2022 7:00:00 AM</i>	<i>Cooling Fluid</i>	<i>4</i>	<i>L</i>	<i>KCG Garage Area</i>	<i>A coolant pump froze and broke on a drill that was being moved.</i>	<i>The drill was stopped, and a containment was put under the coolant pump to prevent further spilling. The drill was brought back to the garage for repair. The coolant contaminated ground was recovered into a Quatrex bag for disposal as hazmat. Contaminated snow was recovered into 3 pails for disposal according to procedure.</i>
<i>Sunday, January 09, 2022 8:30:00 AM</i>	<i>Hydraulic Oil</i>	<i>55</i>	<i>L</i>	<i>KCG Parking Lot</i>	<i>Hydraulic cooler failed on a tire truck which was idling outside at operation temperature.</i>	<i>The leak was controlled, and the contaminated snow was recovered and disposed of into the Snow Cell.</i>
<i>Monday, January 10, 2022 5:30:00 AM</i>	<i>Engine Oil</i>	<i>30</i>	<i>L</i>	<i>WRSF1</i>	<i>The crank case breather tube froze on a light truck due to extreme cold weather, leading the engine oil pressure to raise until it blew out from the turbo and dip stick.</i>	<i>The truck engine was stopped. Spill pads were used and disposed of as hazmat. Contaminated snow was brought to the Snow Cell.</i>
<i>Thursday, January 13, 2022 5:00:00 PM</i>	<i>Contact Water</i>	<i>80</i>	<i>L</i>	<i>KCG Laydown</i>	<i>A water tank was overfilled due to a faulty high-level alarm, causing a spill of contact water on the ground by the KCG laydown garage. The contact water was not contaminated.</i>	<i>The ice/snow was recovered and brought to the snow dump at CP1.</i>
<i>Friday, January 14, 2022 10:00:00 AM</i>	<i>Engine Oil</i>	<i>10</i>	<i>L</i>	<i>KCG Shop Yard</i>	<i>A mechanical failure on the engine of an excavator lead to the spill (the oil cap plug was blown off due to the pressure generated).</i>	<i>Spill pads were used and disposed of as hazmat. Contaminated snow was recovered and put into the snow cell.</i>
<i>Saturday, January 15, 2022 3:00:00 PM</i>	<i>Grey Water</i>	<i>70</i>	<i>L</i>	<i>Main Camp, Wing 10 Lift Station</i>	<i>The heat trace tripped, causing the discharge of the lift station to freeze. The lift station overfilled and grey water leaked out the top and spilled outside the lift station between wings 10 and 11.</i>	<i>The recovered snow/ice was disposed of into CP1 snow dump.</i>

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<i>Sunday, January 16, 2022 3:00:00 PM</i>	<i>Freshwater</i>	<i>8</i>	<i>L</i>	<i>New Wash Bay Staircase</i>	<i>The exterior section of the fresh water pipe between the arctic corridor and the new wash bay froze, leading to pipe failure and resulting in a non-contaminated water spill. Investigation revealed failed heat trace (breaker trip) and rough insulation (construction deficiency) are root causes of the failure.</i>	<i>The freshwater was not recovered as it is not contaminated.</i>
<i>Friday, January 21, 2022 6:00:00 AM</i>	<i>Sewage Water</i>	<i>60</i>	<i>L</i>	<i>Lift Station north of the Mill</i>	<i>The lift station overflowed at the lift station after the control box lid came open. The control box filling with snow caused the pumps to shut off. The control box is usually closed with 2 screws and clips but the screws were missing and clips were not strong enough to hold the door against the wind.</i>	<i>The lift station was emptied and Electrical department was called to fix/replace control box. The contaminated material was recovered and put into the WRSF.</i>
<i>Monday, January 24, 2022 4:00:00 AM</i>	<i>Grease Contaminated Water</i>	<i>80</i>	<i>L</i>	<i>Main Camp Lift Station</i>	<i>A valve failure created an overflow of the liftstation at the main camp's grease trap. Most of the water stayed inside the seacan, but some of the water flowed to the ground outside.</i>	<i>The contaminated water into the seacan was recovered with the vacuum truck and put back into the lift station for treatment. The check valves were replaced. Approximately 1 m3 of contaminated material was recovered and put into the WRSF.</i>
<i>Tuesday, January 25, 2022 5:00:00 AM</i>	<i>Grease Contaminated Water</i>	<i>80</i>	<i>L</i>	<i>Main Camp Lift Station</i>	<i>Valves malfunction led to the overflow of the grease trap at the lift station.</i>	<i>The contaminated snow and soil were collected and brought to the snow cell.</i>
<i>Tuesday, January 25, 2022 11:00:00 AM</i>	<i>Hydraulic Oil</i>	<i>5</i>	<i>L</i>	<i>In front of Main Camp Parking Lot.</i>	<i>The quick coupler on a loader failed, leading to the oil release.</i>	<i>The equipment was stopped. Contaminated snow was recovered and put into the snow cell.</i>

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Friday, February 04, 2022 6:00:00 PM	Petroleum products	20	L	MSB YARD	A scoop was parked in front of the mechanical shop because of a broken cylinder. Residual oil around the cylinder dripped to the ground.	Absorbent pads were used to clean up the spill and disposed of in a Quatrex bag.
Wednesday, February 09, 2022 6:00:00 AM	Petroleum products	40	L	Inside Dome 3	The spill occurred when refilling the hydraulic oil tank of a fuel truck in Dome 3. The tank overflowed because the timer for the pump had been set for a too long period of time.	The spill was contained in the dome. Absorbent pads were used to clean-up the spill and disposed of as hazmat.
Friday, February 11, 2022 4:00:00 PM	Engine Oil 0W40	0.50	L	SH-102 Drill 1, Pump Lake	The drill operator changed the hydraulic motor on the water pressure pump. Before beginning the change, the worker put absorbent pads under the engine, to recover any potential oil drippings. Some oil from the motor being replaced spilled on the absorbent pads; the oil did not reach the lake ice surface.	Absorbent pads were put under the motor before the work to prevent the oil to spill on the ice. The pads were disposed of as hazmat.
Saturday, February 12, 2022 12:30:00 AM	Engine Oil 0W40	3	L	SH-102 Drill 1, Pump Lake	A hydraulic hose ruptured in the hydraulic control. The spill was contained in a drip pan with matting inside the drill, and never reached the lake ice surface.	The drill rig was turned off. The hydraulic valve under the hydraulic tank was closed as well. The hydraulic hose was changed. Used absorbent pads were disposed of as hazmat.
Monday, February 21, 2022 8:00:00 AM	Hydraulic Oil	10	L	Ring road near 67MS11 pattern	An air seal failed, causing the release of hydraulic oil by the hammer port of a drill.	The hammer rotation was stopped. The contaminated snow was put in the snow cell.
Sunday, February 27, 2022 8:00:00 PM	Petroleum products	50	L	Inside the Church	During normal operations, a loader experienced a cylinder failure causing a 50L hydraulic oil spill inside the church.	The spill was contained within the church, and absorbent pads used to clean hydraulic oil. A small backhoe was used to place contaminated tailings into a barrel. The barrel was moved to a sea can at the hazmat laydown.

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<i>Tuesday, March 01, 2022 12:30:00 PM</i>	<i>Hydraulic Oil</i>	<i>45</i>	<i>L</i>	<i>TIRI01B</i>	<i>A leak occurred from a parked idling equipment (dozer).</i>	<i>The equipment was stopped and spill pads were used to clean up the spill. The pads were disposed of according to procedure. Contaminated soil was recovered and disposed of in the Landfarm.</i>
<i>Wednesday, March 02, 2022 2:00:00 AM</i>	<i>Hydraulic Oil</i>	<i>70</i>	<i>L</i>	<i>E&amp;I Parking Lot</i>	<i>A hose ruptured on an equipment (Manitou), leading to the oil reservoir to empty.</i>	<i>The equipment was turned off and the hose repaired. Absorbent pads were used to clean the spill and disposed of according to procedure. Contaminated snow was disposed of in the Snow Cell.</i>
<i>Wednesday, March 02, 2022 4:30:00 AM</i>	<i>Petroleum Products</i>	<i>10</i>	<i>L</i>	<i>E&amp;I Parking lot</i>	<i>While doing a routine walk around an equipment (HTR18), the operator noticed the rear axel was leaking oil.</i>	<i>Absorbent pads were deployed to collect oil and disposed of according to procedure.</i>
<i>Wednesday, March 02, 2022 6:00:00 AM</i>	<i>Engine Oil</i>	<i>4</i>	<i>L</i>	<i>Parking in front of tool crib</i>	<i>The engine of an equipment (truck) broke, and engine oil spilled on the ground.</i>	<i>Absorbent pads were used to clean the liquid portion of the spill and disposed of in Quatrex bags. Contaminated snow was recovered and put into the Snow Cell.</i>
<i>Tuesday, March 08, 2022 10:00:00 AM</i>	<i>Hydraulic Oil</i>	<i>20</i>	<i>L</i>	<i>In front of KCG shop</i>	<i>When lowering the stabilization leg of the tire truck, a worker noticed an oil leak under the truck.</i>	<i>The truck was turn off and absorbent pads were used to clean-up the spill. The pads were disposed of as hazmat. Contaminated snow was recovered and disposed of in the Snow Cell.</i>
<i>Saturday, March 12, 2022 10:30:00 PM</i>	<i>Petroleum Products</i>	<i>10</i>	<i>L</i>	<i>Outside the maintenance shop</i>	<i>A tractor caught on fire and an oil spill occurred.</i>	<i>Spill pads were used to clean-up the spill and disposed of as hazmat.</i>
<i>Monday, March 14, 2022 4:30:00 PM</i>	<i>Petroleum Products</i>	<i>20</i>	<i>L</i>	<i>Haul Road</i>	<i>The driveshaft of a haul truck broke and the transmission line failed, leading to a leak and spill of transmission fluid.</i>	<i>The contaminated material was recovered and brought to the Landfarm.</i>
<i>Friday, March 18, 2022 1:00:00 PM</i>	<i>Petroleum Products</i>	<i>2</i>	<i>L</i>	<i>In Front of the Water Management Shop</i>	<i>Driver side front axel of a haul truck was leaking oil (failure of the oil seal on the wheel).</i>	<i>The contaminated ice and snow were brought to the Snow Cell.</i>

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Sunday, March 20, 2022 2:30:00 PM	Hydraulic Oil	4	L	E&I parking lot	A hydraulic hose failed on a haul truck.	The truck was turned off and absorbent pads were used to clean the spill. The pads were disposed of according to procedure.
Tuesday, March 22, 2022 12:00:00 AM	STP Treated Water	8	L	Sewage Treatment Plant	STP treated water was spilled while transferring from the Exploration Camp STP to the Main Camp STP, because a hose was not properly connected.	Contaminated material was recovered and put into barrels for disposal at a later date (treatment at the STP).
Wednesday, March 23, 2022 9:30:00 AM	Diesel Fuel	35	L	Dion Dome	During fueling of the diesel fuel station of the frost fighter at the Dion Dome, approximately 30 L was spilled through the vent pipe. The initial investigation identified that the fuel pipe is higher than the vent pipe leading to the spill.	Spill pads and a small boom were used to contain the spill. Contaminated snow was recovered and disposed of in the Snow Cell.
Thursday, March 24, 2022 3:00:00 AM	Hydraulic Oil	3	L	Portal 2 Ore Pad	An underground haul truck was proceeding to dump a high-grade load on the south side of the pile, when the truck shut down by itself because of low hydraulic level. The truck was leaking hydraulic oil to the ground.	Absorbent pads were used and disposed of as hazmat. The contaminated material was scraped off and disposed of in a Quatrex bag.
Thursday, March 24, 2022 1:30:00 PM	Diesel Fuel	50	L	6 Million Fuel Farm	The operator was refueling the fuel truck when he noticed fuel coming out of the back compartment. The the 2-inch hose nozzle was frozen open.	The fueling process was stopped with the emergency stop button. Absorbent pads were used and disposed of according to procedure. The contaminated snow was recovered and put in the Snow Cell.
Monday, March 28, 2022 12:00:00 AM	Hydraulic Oil	20	L	Portal 1 Ore Pad	A hydraulic hose failed on a haul truck.	The haul truck was stopped. Absorbent pads were used to contain the spill and disposed of according to procedure. Contaminated snow/ice was recovered put into the Snow Cell.
Saturday, April 02, 2022 1:00:00 PM	Hydraulic oil	10	L	OP2 oversized rock stockpile	Hammer hydraulic hose clamp on an excavator unscrewed itself. The hose disconnected and hydraulic oil spilled on the ore pad.	The breaker was stopped. Absorbent pads were used and the contaminated ore was sent to the crusher and processed. Contaminated material was disposed in appropriate quatrex bag for oily solid.

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Sunday, April 03, 2022 7:30:00 AM	Diesel fuel	65	L	Outside of the Dion dome	A worker was filling a tank and locked the nozzle. He went to the truck leaving the nozzle unsupervised, resulting in a spill.	Operator unlocked the nozzle to stop the diesel spill. Absorbent rags were used to clean the area. Contaminated material was shoveled and put in a plastic bag and emptied into a quatrex bag. Snow was removed and brought to the contaminated snow cell.
Monday, April 04, 2022 11:00:00 AM	Diesel fuel	25	L	CP2 protection berm	Worker was hauling waste rock to cap the berm at CP2. When he finished to back-up his truck, the operator observed a small fuel trail coming from his equipment. After further investigation from the mechanic, the fuel injector accumulator had failed.	The operator turned down the engine and called his supervisor and mechanic. The spill area was cleaned-up and the contaminated material was collected and brought to landfarm A.
Thursday, April 07, 2022 9:30:00 AM	Hydraulic oil	10	L	CP2 ditch blast pattern	Driller was drilling a hole when a hose on the drill failed and started leaking.	Driller stopped the drill. Contaminated snow was recovered and brought to the contaminated Snow Cell.
Sunday, April 10, 2022 12:00:00 AM	Engine Oil	12	L	CP2 Berm	A driver hit a rock with his pickup truck. This broke the oil pan releasing 15L of engine oil onto the CP2 Berm.	The pickup was stopped. Workers scrapped the contaminated material and brought this to Landfarm A.
Saturday, April 16, 2022 11:30:00 AM	Oil	1	L	Back of the warehouse	Oil was coming off the muffler of the telehandler.	The contaminated material was recovered and disposed of in the Landfarm.
Saturday, April 16, 2022 8:00:00 PM	Diesel fuel	5	L	Batch Plant	A worker moved a frost fighter and placed it with an angle (not leveled). The fuel tank was not able to provide the frost fighter, and fuel started to spill in the containment under the equipment. Since the equipment was not leveled, the containment spilled on the ground.	Frost fighter was stopped and put back in a good position. All the contaminated material was shoveled and disposed in the Snow cell.

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Sunday, April 17, 2022 1:00:00 PM	Diesel	5	L	North-West side of the STP	The diesel compressor leaked oil inside the unit and the oil was vaporized by the engine fan. The oily mist came out of the compressor unit vents and drains and coated the snow underneath it with a thin layer of oil. The leak happened before April 18th as the diesel compressor was shut down on April 17th.	Compressor was cleaned and moved into the water management shop for inspection and repairs. Contaminated snow was scraped up with the backhoe and contaminated snow was disposed of in the contaminated snow cell.
Wednesday, April 20, 2022 8:00:00 AM	DEF	20	L	Itivia fuel station	A hose on a tractor trailer broke in the lined fueling station at Itivia resulting in a leak of DEF.	The worker reported the spill to his supervisor.
Wednesday, April 20, 2022 5:00:00 PM	Engine Oil	20	L	Batch Plant	After starting the cement truck, an engine oil spill was identified under the truck.	The truck was stopped, and a spill kit used to contain and clean up the spill. In the future a spill tray will be in place during run test. Contaminated materials were disposed of according to procedure.
Thursday, April 21, 2022 12:30:00 PM	Hydraulic oil	6	L	Thickener tank pad	A hydraulic hose failed while the crane was idling.	Crane was stopped. Spill pads were deployed to clean-up the spill. Maintenance replaced the hose. Spill pads were disposed of according to procedure.
Thursday, April 21, 2022 7:30:00 PM	Oil	30	L	Tiriganiaq Open Pit 1	Operator found out that its loader was losing oil as he was loading equipment in TIRI-1. The final drive oil tank plug was missing.	Loader operator stopped the equipment. Contaminated material was recovered and placed into Landfarm A.
Saturday, April 23, 2022 8:30:00 AM	Petroleum Product	4	L	CIL	The regulator on the compressor was frozen due to cold temperature, causing pressure build-up. The pressure release valve opened, causing a spill.	Spill kit was used to clean-up the spill, contaminated materials were disposed of according to procedure.
Saturday, April 23, 2022 11:00:00 AM	Hydraulic Oil	5	L	Orbit Garant Dome	A dozer leaked in the yard of the Orbit Garant Dome, releasing small amounts of hydraulic oil.	The contaminated area was cleaned using a loader. The contaminated material was brought to the Landfarm.



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<i>Monday, April 25, 2022 4:30:00 AM</i>	<i>Hydraulic oil</i>	<i>40</i>	<i>L</i>	<i>Tiriganiaq Open Pit 1</i>	<i>The hose of a hydraulic pump on an excavator failed, resulting in a spill of hydraulic oil under the equipment.</i>	<i>Equipment was stopped. Absorbent pads were used to clean the spill. The contaminated area was scrapped, and the contaminated soil was brought to the Landfarm.</i>
<i>Tuesday, April 26, 2022 8:00:00 AM</i>	<i>Silica Sand</i>	<i>44</i>	<i>kg</i>	<i>Inside a container</i>	<i>An employee entered in a seacan and discovered it was full of silica sand on the floor.</i>	<i>The sand was collected with appropriate PPE.</i>
<i>Wednesday, April 27, 2022 5:00:00 AM</i>	<i>Oil</i>	<i>25</i>	<i>L</i>	<i>Tiriganiaq Open Pit 1</i>	<i>Hose of centralizer cylinder of a drill broke. Driller did not immediately notice the leak, and oil was spilled on a approximate distance of 50 m.</i>	<i>The drill was stopped. Absorbent pads were used to clean the spill. All the contaminated material was disposed in an oily solid quatrex bag.</i>
<i>Wednesday, April 27, 2022 12:00:00 PM</i>	<i>Oil</i>	<i>15</i>	<i>L</i>	<i>Tiriganiaq Open Pit 1</i>	<i>Driller performed a maneuver near the drill pattern berm and bust a body valve on the rod changer as he hit a rock on the berm.</i>	<i>Absorbent pads were used to clean the spill. They were disposed of in an oily solid waste containment.</i>
<i>Saturday, April 30, 2022 12:00:00 AM</i>	<i>Hydraulic oil</i>	<i>0.50</i>	<i>L</i>	<i>Yard of Fountain tire</i>	<i>During an Environmental inspection, workers found a hydraulic oil spill in the yard of the fountain tire.</i>	<i>Absorbent pads were used to clean the liquid and the area was scraped. The contaminated material was put in an oily solid drum.</i>
<i>Sunday, May 01, 2022 3:00:00 AM</i>	<i>Hydraulic oil</i>	<i>10</i>	<i>L</i>	<i>Outside maintenance shop</i>	<i>Oil spill occurred on a tractor when moving it into the maintenance shop.</i>	<i>Spill pads were used and disposed of according to procedure.</i>
<i>Wednesday, May 04, 2022 8:00:00 AM</i>	<i>Oil</i>	<i>2</i>	<i>L</i>	<i>Itivia Parking</i>	<i>A loader was leaking oil. A secondary containment was used but was not placed right and oil spilled on the ground.</i>	<i>Spill pads were used. Contaminated materials were put in a Quadrex Bag.</i>
<i>Thursday, May 05, 2022 12:00:00 AM</i>	<i>Hydraulic oil</i>	<i>50</i>	<i>L</i>	<i>SP4 crusher pad</i>	<i>A hose was damaged on the crusher. The crushing team had removed the hose and closed the hydraulic tank valves and caught the residual oil in 20L bucket until it stopped dripping.</i>	<i>Spill pads were used and the contaminated soil was recovered; contaminated materials were disposed of in a Quadrex bag.</i>

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					<i>When workers checked at the end of the shift, it was not dripping anymore. They left a secured 20L pail to catch any residual drip. When they returned the next morning, the bucket had overfilled and oil had trickled down to the frozen ground on a 2 square meter surface.</i>	
<i>Thursday, May 05, 2022 6:30:00 AM</i>	<i>Transmission Fluid</i>	<i>2</i>	<i>L</i>	<i>MSB parking</i>	<i>Surveyor was doing his pre-op inspection at start of shift, noticed transmission fluid leaking from bottom of truck.</i>	<i>Immediately called his supervisor and used the spill kit in his truck to cover the spill. The contaminated material was disposed in a Quatrex bag</i>
<i>Tuesday, May 10, 2022 12:00:00 AM</i>	<i>TSS potential Exceedance</i>	<i>14</i>	<i>Mg/L</i>	<i>MEL SR1</i>	<i>While conducting a routine inspection, surface water runoff was observed south of Itivia at sampling station MEL-SR1. Water sample and field readings were taken after these measures were implemented. Turbidity field readings showed results indicative (but not confirmatory) - that TSS concentrations could exceed the NWB Water Licence 2AM-MEL1631 criteria, and the potential exceedance was reported via the NT-NU 24-hour spill report line. Laboratory results were received May 25<sup>th</sup> and a concentration of 14 mg/L was measured at MEL-SR1, indicating there was no exceedance of the Type A Water Licence criteria.</i>	<i>Straw and wood chip logs were installed to mitigate sediment transport.</i>
<i>Thursday, May 12, 2022 11:30:00 AM</i>	<i>Oil</i>	<i>10</i>	<i>L</i>	<i>Portal 2</i>	<i>Oil was found on the side of a sea can at the Portal 2</i>	<i>Spill kit was used to clean-up the spill, contaminated materials were disposed of according to procedure.</i>

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Thursday, May 12, 2022 2:30:00 PM	Oil	5	L	Black Start generator enclosure	The generator was leaking oil. Oil coated the floor in the generator enclosure and dripped between the floor panels onto the ground outside.	The Generator was shut down, and spill tray was placed under the generator enclosure where the oil was leaking. Contaminated snow was placed in the contaminated Snow cell, Waste oil pumped in a tote and rags was disposed in an oily solid quatrex bag.
Saturday, May 14, 2022 3:00:00 AM	Fuel	20	L	MSB parking lot	Worker started his pickup and let it warm up. When he went back, fuel was leaking on the ground.	Pick up was shut off. Spill was contained with spill pads. Contaminated material was disposed in the land farm.
Saturday, May 14, 2022 4:00:00 AM	Hydraulic oil	25	L	Construction office	Loader was leaking hydraulic oil.	Loader was stopped and parked. Spill was cleaned and contaminated soil was put in drums for disposal as hazmat.
Saturday, May 14, 2022 6:00:00 PM	Hydraulic oil	80	L	Portal 1 at the dome 3	A worker was transferring hydraulic oil from the tote to the fuel truck tank. He left without stopping the transfer, causing a spill of 80L.	Spill kit was used and contaminated materials disposed according to procedure.
Sunday, May 15, 2022 4:00:00 PM	Biosolids	10	L	STP Parking Lot	Sucker truck parked in an angle and was full, but the sight glass wasn't showing that it was full due to the slope. The valve leaked because there was no vacuum on the truck.	A bucket was installed underneath the hose to prevent larger spill.
Monday, May 16, 2022 4:00:00 PM	Liquid bio-solids	75	L	S-E side of STP	While attempting to wash the membranes, a mix of chlorine and water was improperly measured resulting in foam being created which overflowed the tank.	Wash process was stopped and air flow shut off. Vacuum truck was dispatched to pick up spilled product. All the spilled material was reintroduced in the MSB lift station.
Tuesday, May 17, 2022 8:00:00 AM	Fuel	10	L	541110 E 6988610 N	The fuel tank on a sled had hole at the bottom of the front wall. The snow inside the sled melted and the floor was dirty with fuel. The water mixed with fuel went out directly on ground.	The drillers installed a drip pan under the hole. Contaminated soil was recovered.

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Saturday, May 21, 2022 6:00:00 AM	Engine Oil	1	L	Tiri-1	Tower light leaked engine oil on the ground.	The tower light stopped when it ran out of oil. The contaminated material was recovered and brought to the Landfarm.
Saturday, May 21, 2022 10:00:00 AM	Fuel	3	L	Dion Dome	Fuel leaked out of frost fighter while it was in operation.	Frost fighter has been removed from location for inspection of fuel tank. Spill pads were used to clean the area and was disposed in the appropriate bin.
Friday, June 10, 2022 8:30:00 PM	Hydrochloric Acid	10	L	In a seacan	When an operator of a Manitou was trying to lift a hydrochloric acid barrels pallet, the fork of the equipment was set a bit high and kinked the bottom of a barrel, which started dripping on the seacan floor.	A spill tray was used to prevent further spilling. The pallet with the spill tray was brought on top to the detox station in the mills. The barrel was washed until it empty. In the sea can, absorbent pellets were used and disposed of at the detox area in the mill.
Tuesday, June 14, 2022 4:30:00 PM	Coolant	65	L	D-CP1	A coolant line failed on an excavator while working on the downstream side of D-CP1.	Excavator was stopped immediately. Absorbent pads were used to contain the spill. Contaminated material (coarse rock) was taken out and placed at the Landfarm.
Friday, June 17, 2022 4:00:00 PM	DEF Fluid	18	L	East of Dome 3	While attempting to lift a DEF fluid plastic tote, a fork came in contact with the tote and pierced a small hole in the tote near the bottom. Approximately 18 liters of DEF fluid leaked out until the content of the pierced tote was emptied into another container.	Content of the pierced tote was emptied into another container. Contaminated material was scrapped and placed in a steel container for appropriate disposal.
Saturday, June 18, 2022 1:30:00 PM	Fuel	1,000	L	Itivia Fuel Station	While doing a fuel transfer between two fuel tanker, fuel spilled out of the air vent behind the fuel tanker.	The logistics driver immediately shut off all the valves in the correct order to stop the spilling. The spill was contained with absorbent spill pads. The water and fuel mix in the lined area of fuel station was pumped and disposed as hazmat.
Tuesday, July 05, 2022 1:30:00 PM	Hydraulic oil	20	L	TSF	A hydraulic line on a dozer failed.	The equipment was stopped. The spill kit was used and contaminated materials were disposed of according to procedure.

<i>Date and time of occurrence</i>	<i>Material Spilled</i>	<i>Estimated quantity</i>	<i>Unit</i>	<i>Exact location of incident</i>	<i>Description of incident</i>	<i>Describe immediate corrective actions</i>
<i>Friday, July 08, 2022 8:30:00 AM</i>	<i>Hydraulic oil</i>	<i>40</i>	<i>L</i>	<i>Dome 3</i>	<i>Approximately 40 L of hydraulic oil was spilled in Dome 3 when a worker was filling up a hydraulic oil reservoir tank. The work procedure was not followed; the worker walked away while the pump was running for about 10 minutes. When the worker returned, he noticed a coupling was leaking, and turned off the pump immediately.</i>	<i>Spill pads were used to clean-up the spill and disposed of as hazmat.</i>
<i>Saturday, July 09, 2022 11:30:00 AM</i>	<i>Coolant</i>	<i>40</i>	<i>L</i>	<i>Entering Ore pad 2 from the UG portal</i>	<i>Coolant hose broke on a haul truck.</i>	<i>A small excavator was used to recover the contaminated ground, which was disposed of in a Quadrex bag.</i>
<i>Sunday, July 10, 2022 3:00:00 PM</i>	<i>Hydraulic oil</i>	<i>30</i>	<i>L</i>	<i>KCG shop yard</i>	<i>Hydraulic oil was spilled at the KCG shop yard when mechanics were transferring oil in the lube truck. The hose connection failed and disconnected leading to the spill.</i>	<i>The transfer pump was stopped. Spill pads were used and contaminated soil was recovered for disposal at the Landfarm.</i>
<i>Saturday, July 23, 2022 11:30:00 AM</i>	<i>Hydraulic oil</i>	<i>3</i>	<i>L</i>	<i>Service road in front of old Nuna shop</i>	<i>Hydraulic oil spilled out of a broken cylinder on the service road when an operator broke a float trailer.</i>	<i>Contaminated material (20 L pail) was scrapped and brought to Landfarm A.</i>
<i>Monday, July 25, 2022 10:00:00 AM</i>	<i>Hydraulic oil</i>	<i>5</i>	<i>L</i>	<i>CIL</i>	<i>The concrete pump leaked 5L of hydraulic oil during a concrete pour.</i>	<i>The leak was immediately contained, and the contaminated soil and used spill pads were disposed as hazmat.</i>
<i>Friday, July 29, 2022 4:30:00 PM</i>	<i>Hydraulic oil</i>	<i>0.50</i>	<i>L</i>	<i>CIL</i>	<i>The hydraulic hose of a Sky-track failed during use and spilled 500ml of hydraulic oil.</i>	<i>When the spill was first seen a spill tray was immediately put under the hose to prevent further spilling.</i>
<i>Friday, August 05, 2022 1:00:00 AM</i>	<i>Petroleum products</i>	<i>45</i>	<i>L</i>	<i>TSF Berm</i>	<i>A 349 excavator had mechanical failure, spilling 45 L of petroleum products.</i>	<i>The equipment was stopped, and absorbent pads were deployed to contain and clean-up the spill. Spill pads were disposed of in Quatrex bags.</i>

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<i>Saturday, August 06, 2022 5:30:00 AM</i>	<i>Petroleum products</i>	<i>50</i>	<i>L</i>	<i>Portal 1 in dome 3</i>	<i>A 50L hydraulic oil spill occurred when a worker forgot to close a hose while changing an empty hydraulic oil tote, which led to the spill on the floor inside Dome 3.</i>	<i>The hose was closed and connected properly. The spill was cleaned-up using the spill kit. Contaminated materials were disposed as hazmat.</i>
<i>Sunday, August 07, 2022 5:00:00 AM</i>	<i>Coolant</i>	<i>60</i>	<i>L</i>	<i>OP2 HG pile</i>	<i>A coolant hose on a loader failed.</i>	<i>Loader was turned off. Spill was contained and cleaned-up. Contaminated material was sent to the mill through the crusher, since the contaminated material was in a high grade pile of the ore pad.</i>
<i>Tuesday, August 09, 2022 11:30:00 AM</i>	<i>Hydraulic Oil</i>	<i>4</i>	<i>L</i>	<i>Crane pad</i>	<i>A hydraulic line on a Manitou failed while putting a cable reel into a sea can.</i>	<i>Operator turned off the equipment. Contaminated soil was recovered and put in a drum. The drum was taken to the hazmat laydown.</i>
<i>Saturday, August 13, 2022 7:30:00 PM</i>	<i>Hydraulic oil</i>	<i>300</i>	<i>L</i>	<i>Dome 3</i>	<i>Approximately 300 L of petroleum products were spilled inside lined Dome 3 when the operator of the fuel truck forgot to unplug the hydraulic refill hose as he was heading out of Dome 3. A fitting broke on the tank of the truck, resulting on the tank emptying on the ground.</i>	<i>The spill was contained, and contaminated soil was recovered and disposed of into Quatrex bags.</i>
<i>Sunday, August 14, 2022 12:00:00 AM</i>	<i>Petroleum products</i>	<i>50</i>	<i>L</i>	<i>Retro Pad</i>	<i>Approximately 50 L of petroleum products leaked out of a hazmat seacan at the retro pad, likely because of improper storage. A tote was likely overfilled, which resulted in leakage when the seacan was transported from the incinerator laydown to the hazmat pad. Oil leaked onto the floor of the seacan, leading to the spill.</i>	<i>Seacan will be inspected to verify the integrity of the totes inside. Spill pads were used to absorb the oil and disposed of appropriately.</i>
<i>Monday, August 15, 2022 7:30:00 AM</i>	<i>Ammonium Nitrate</i>	<i>6</i>	<i>kg</i>	<i>Seacan C17 on Dyno pad</i>	<i>An estimated 6 KG of ammonium nitrate was spilled on the Dyno industrial pad while opening a sealed seacan.</i>	<i>Upon discovery of the spill, Dyno operators used shovels and a loader to remediate the impacted area. The seacan was moved to ensure proper remediation could be achieved. The material that</i>

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					<i>The spill was reported to the Nunavut Spill Line as due diligence since the volume of spilled material was less than 50 KG which is the usual spill reporting threshold for oxidizing substances.</i>	<i>was removed was placed in boreholes in the open pit and used as blasting material.</i>
<i>Thursday, August 25, 2022 2:30:00 PM</i>	<i>Hydraulic oil</i>	<i>70</i>	<i>L</i>	<i>Paste plant</i>	<i>While driving, the Hyster operator noticed an oil leak coming from the back of the equipment.</i>	<i>The equipment was stopped. Contaminated material was recovered and placed into the Landfarm.</i>
<i>Wednesday, August 31, 2022 12:00:00 AM</i>	<i>Hydraulic oil</i>	<i>15</i>	<i>L</i>	<i>Tiri-1</i>	<i>A hose failed on a drill in operation.</i>	<i>Equipment was stopped. Absorbent pads were used, and contaminated soil recovered. Contaminated materials were disposed of as hazmat.</i>
<i>Wednesday, August 31, 2022 5:00:00 PM</i>	<i>Diesel Fuel</i>	<i>200</i>	<i>L</i>	<i>Fuel farm portal 2</i>	<i>A 200 L fuel spill occurred in the lined refueling area of the 6M fuel farm. A haul truck hit the stairs, which shifted the seacan at the refueling area, creating a leak in the connection on the fuel line.</i>	<i>Absorbent pads were deployed and disposed of properly.</i>
<i>Saturday, September 03, 2022 6:30:00 AM</i>	<i>Fuel</i>	<i>5</i>	<i>L</i>	<i>3M Fuel Farm</i>	<i>Approximately 5L of fuel was spilled at the fuel farm when an operator was fueling an equipment.</i>	<i>Spill pads were used and disposed according to procedure.</i>
<i>Tuesday, September 13, 2022 6:30:00 AM</i>	<i>Axle Oil</i>	<i>5</i>	<i>L</i>	<i>MSB East side parking lot</i>	<i>Tractor 10 was leaking axle oil in MSB parking lot.</i>	<i>An oil pan was temporary installed under the unit and it was brought to the Maintenance Shop. The spill was cleaned and contaminated materials disposed as hazmat.</i>
<i>Tuesday, September 13, 2022 9:00:00 AM</i>	<i>Hydraulic oil</i>	<i>10</i>	<i>L</i>	<i>MSB Yard Downline</i>	<i>A scoop was leaking hydraulic oil in the MSB parking due to a damage on the unit.</i>	<i>Absorbent pads were used to clean the spill. All contaminated material (spill pads, contaminated soil) was disposed as hazmat.</i>

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Thursday, September 15, 2022 3:00:00 PM	Hydraulic Oil	35	L	North Side of Process Plant	Hydraulic hose failed on a Telehandler while driving.	Spill pads were used and disposed as hazmat. Contaminated soil was recovered and placed in Landfarm A.
Tuesday, September 20, 2022 7:30:00 AM	Antifreeze	4	L	New CIL	A loader had an air lock in the radiator and antifreeze overflowed from the tank.	Contaminated material was scraped up and disposed of in a Quatrex bag.
Wednesday, September 21, 2022 11:00:00 AM	Petroleum products	5	L	6M Fuel farm	Doing an environmental inspection of the fuel farm, fuel was found in the secondary containment of the 6M. It is suspected that a worker didn't use the spill tray underneath the equipment when fueling.	Absorbent pads were used and disposed of as hazmat.
Wednesday, September 21, 2022 6:00:00 PM	Contaminated water	90	L	Boiler Room	Approximately 90 L of contaminated water was spilled in the boiler room. Following a power outage, water was introduced in the boiler loop as the workers thought a valve was leaking. When the boiler was restarted, the water expanded and the system overflowed by the pressure relief valve.	Valves were closed. Contaminated water was recovered and put into totes which were sent to the hazmat laydown.
Thursday, September 22, 2022 3:30:00 PM	Hydraulic oil	6	L	E535240 N6989652	While changing a hydraulic hose, a worker put matting under the tower to prevent oil spilling on the ground. The next day, oil drips were observed on the ground by another worker. Matting was missing at some places.	Spill pads and contaminated soil were brought back to the Orbit garage for disposal as hazmat in Quatrex bags.
Friday, September 23, 2022 10:00:00 AM	Hydraulic oil	5	L	Camp parking lot	A hydraulic oil leak was noticed on the excavator 349 while digging a trench.	The equipment was stopped. A bucket was put under it to contain the leak. Absorbent pads were used to clean the spill and brought to the hazmat laydown for proper disposal. Contaminated soil was recovered and placed in Landfarm A.



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<i>Saturday, September 24, 2022 6:00:00 AM</i>	<i>Chemical Sodium Meta Bi-sulphite</i>	<i>19.23</i>	<i>L</i>	<i>Mill Reagent Pad</i>	<i>While lowering a sea can, a damaged part of it caught the side of another sea can beside it and tore open. One bag of Meta Bi-Sulphite inside the broken seacan tore open which led to the spill.</i>	<i>All the spilled material was collected and placed in a Quatrex bag.</i>
<i>Sunday, September 25, 2022 5:30:00 PM</i>	<i>Coolant</i>	<i>5</i>	<i>L</i>	<i>KM 6 in the by-pass road</i>	<i>A truck was overheating and some coolant spilled out.</i>	<i>Absorbent pads from the spill kit in the truck were used. All the contaminated material was recovered and placed in a drum for disposal as hazmat.</i>
<i>Friday, September 30, 2022 10:00:00 AM</i>	<i>Coolant</i>	<i>10</i>	<i>L</i>	<i>TSF berm</i>	<i>A coolant hose blew on au haul truck.</i>	<i>Equipment was stopped. Absorbent pads were used to clean up the spill and disposed of in Quatrex bags.</i>
<i>Thursday, October 06, 2022 8:00:00 AM</i>	<i>Hydraulic Oil</i>	<i>4</i>	<i>L</i>	<i>Front of wash bay</i>	<i>After being cleaned in the wash bay, an employee forgot to install the hydraulic cap on the cylinder of a scoop releasing 4 L of hydraulic oil on the ground.</i>	<i>Absorbent pads were deployed to collect free liquid. Contaminated material was also collected and brought inside the maintenance shop for disposal in the hazmat bin.</i>
<i>Thursday, October 06, 2022 1:00:00 PM</i>	<i>Engine Coolant</i>	<i>5</i>	<i>L</i>	<i>KM 25 on AWAR</i>	<i>An engine coolant hose failed, releasing approximately 5 L of coolant.</i>	<i>Contaminated soil was removed and disposed of properly.</i>
<i>Saturday, October 08, 2022 4:00:00 AM</i>	<i>Q-cell</i>	<i>1</i>	<i>KG</i>	<i>Module 1-2 outside emulsion plant</i>	<i>An employee was washing floors in the emulsion plant with water. Residual Q-cell was in the water/floor. The contaminated water leaked out of the plant and onto the ground.</i>	<i>The residual water in the emulsion plant was disposed of in the treated sump water tote.</i>
<i>Tuesday, October 18, 2022 8:00:00 PM</i>	<i>Diesel Fuel</i>	<i>10</i>	<i>L</i>	<i>Paste Plant Cement laydown</i>	<i>Five-gallon diesel cans were being used to hold open cement doors. A gust of wind blew the door closed, knocking over a diesel can that was not closed properly.</i>	<i>Spill kit was used to contain spill. A skid steer was used to scrape up contaminated soil and put it in a Quatrex bag. Workers were told not to use diesel cans to hold open doors.</i>

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Wednesday, October 19, 2022 1:00:00 PM	Diesel Fuel	5	L	Explo camp next to helicopter pad	A light tower flipped on the side and spilled diesel.	Contaminated soil was recovered and placed into Landfarm A.
Thursday, October 20, 2022 2:30:00 AM	Diesel Fuel	13	L	Dome 3 lay down	A boom truck arrived at surface Dome 3 to load some steel to bring underground. When the operator got out of his equipment, he noticed the fuel tank was leaking through the side glass.	Absorbent rags were used and placed into a Quatrex bag and surface material was shoveled and placed into a Quatrex bag (Oily solids).
Monday, October 24, 2022 10:00:00 PM	Hydraulic Oil	45	L	West side of AWAR next to Tiri02	A hose disconnected on a Dozer Cat and hydraulic oil started spilling on the ground.	An excavator was used to remove the contaminated ground (waste rock) which was placed inside a haul truck and disposed of in the Landfarm.
Saturday, October 29, 2022 3:00:00 AM	Hydraulic Oil	4	L	E540690 N6988459	A hydraulic hose failed inside a drill and some oil leaked out on the ground.	Spill pads were used, and contaminated materials were disposed of in a Quatrex bag.
Wednesday, November 02, 2022 11:30:00 AM	Hydraulic Oil	5	L	TIR01	A hydraulic hose failed while drilling production holes in TIRI 1 open pit, resulting in a 5 L hydraulic oil spill. The spill was contained to the local area and no water bodies were impacted.	The drilling was stopped immediately, and a bucket was placed under the drill to collect the hydraulic oil. Spill pads were used to clean up the remaining material and placed in an oily solids Hazardous waste barrel.
Thursday, November 03, 2022 1:30:00 PM	Engine Coolant	80	L	TIR01 ramp, floor	A failed coolant line on a haul truck traveling down the TIR01 pit ramp resulted in an 80 L Engine coolant spill.	A loader and excavator were used to clean-up the contaminated material that was released on the ramp and in the open pit. The contaminated material was stockpiled and disposed of in the contaminated snow cell.
Wednesday, November 09, 2022 12:00:00 AM	Meliadine Lake Water	1,000	m <sup>3</sup>	Fresh Water Line	At approximately 4 am the fresh water line that conveys water from Meliadine Lake to the Meliadine Water Treatment Plant (WTP) and mill failed resulting in a 1000 m3 fresh water release	The raw Meliadine Lake water flowed in channel 2 where it froze, no further clean up occurred. At approximately 11:00 a new "Y" joint was installed, and the repair was complete.

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					(Meliadine lake water). Upon verification, the failure occurred at the "T" junction where the line splits between the Water Treatment Plant and the mill.	
Saturday, November 12, 2022 12:30:00 AM	Hydraulic Oil	5	L	Haul road Y intersection close to paste line	A failed hydraulic line on an excavator resulted in a 5 L hydraulic oil spill on the haul road. The equipment was stopped and moved to the maintenance shop for repair.	The spill was cleaned up with equipment and absorbent pads. Approximately 0.5 m <sup>3</sup> of contaminated material was placed in Landfarm "A".
Sunday, November 13, 2022 7:30:00 AM	Hydraulic Fluid	15	L	New CII/Filter Press	A failed hydraulic line on a loader resulted in a 15 L hydraulic oil spill to the industrial pad. The equipment was shut down and clean-up initiated.	Spill kit with absorbent pads were used to collect the free fluid. An excavator was used to clean-up the contaminated material which was placed in a quatrex bag for disposal.
Monday, November 14, 2022 11:30:00 AM	Coolant	3	L	WRSF3	A loose coolant connection on a haul truck resulted in a 3 L coolant spill on the haul road.	The haul truck was stopped, and absorbent pads and a drip tray placed under the haul truck to collect the coolant until the repair was complete. Spill pads and contaminated material were placed in a quatrex bag for disposal.
Monday, November 14, 2022 6:00:00 PM	Freshwater (lake)	20	m <sup>3</sup>	Explo Camp Freshwater tank	A broken sprinkler head in N wing at the exploration camp resulted in 2 of 3 freshwater fire suppression tanks draining. After repair, the pump was placed in normal operations and the tanks were refilled. During a follow-up inspection a broken connection was identified with approximately 20 m <sup>3</sup> of freshwater being spilled to the ground.	The pump was stopped, and the sprinkler was isolated for repair. A thin layer of ice was collected and disposed of in the snow dump.
Wednesday, November 16, 2022 9:00:00 AM	Tire Fill Foam	500	L	Portal 2 Dome	Employee was moving Tire Fill Foam agent into the dome at portal 2 when the loader slid and punctured a tote of Tire Fill Foam. Approximately 500 L of	The spilled Tire Fill Foam material was collected and put inside a Quatrex bag for disposal.

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					fill foam was spilled within the lined Portal 2 dome.	
Thursday, November 24, 2022 10:30:00 PM	Diesel	5	L	KCG parking area	While refueling a bus, an airlock caused the fuel to spray out of the refilling nozzle. Approximately 5L of diesel fuel was spilled on the ground.	The contaminated material (snow and ice) was cleaned up with a grader and loader. The contaminated material was placed in the contaminated snow cell.
Friday, November 25, 2022 7:00:00 PM	Hydraulic Oil	5	L	KCG shop yard	A failed hydraulic line on the brake cooling line resulted in a 5 L Hydraulic oil spill to the industrial pad. Equipment was shut down and the hose repaired.	Absorbent pads we used to clean up the free liquid and the snow and ice was removed and place in the contaminated snow cell.
Saturday, November 26, 2022 12:00:00 AM	Oil	20	L	KCG shop (oil seacan)	An oil container in the KCG oil seacan leaked and flowed out of the seacan and on to the ground. Approximately 20 L of oil was spilled onto the industrial pad.	Apply absorbent pads were used to collect the oil free liquid and the remaining contaminated snow and ice was placed in the contaminated snow cell.
Wednesday, December 07, 2022 6:30:00 AM	Hydraulic Fluid	5.00	L	Ramp of NEW CIL	A hydraulic line on an aerial work platform failed, spilling approximately 5 L of hydraulic oil to the industrial pad.	Worker used spill pads to collect the free fluid, and the frozen contaminated material was placed in a Quatrex bag for disposal.
Wednesday, December 07, 2022 4:00:00 PM	Diesel Fuel	40.00	L	Crane shelter	An out of service fuel tank at the crane shelter failed, releasing 40 L of fuel into the containment tray. After further investigation, the containment tray had a crack allowing the fuel to spill onto the industrial pad.	Fuel leftover in the tank was pumped and used at the incinerator. Frozen contaminated water/fuel from the containment tray was recovered and placed in the snow cell. Contaminated material will be excavated and hauled to the Landfarm.
Monday, December 19, 2022 10:30:00 PM	Freshwater	50.00	L	Wash bay	A frozen pipe in the wash bay corridor resulted in the release of 750 L of fresh water into the hallway; an estimated 50 L of fresh water left the building onto the industrial pad.	A vacuum truck was used to collect the free water, which was placed in the wash bay for use.

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<i>Tuesday, December 20, 2022 4:30:00 AM</i>	<i>Hydraulic Oil</i>	<i>10.00</i>	<i>L</i>	<i>North side of SP4</i>	<i>A failed hydraulic line on an excavator resulted in a 10 L hydraulic oil spill on the industrial pad.</i>	<i>Spill pads were used to collect the spilled material and disposed of in the oily material bin at the KCG shop for offsite disposal.</i>
<i>Wednesday, December 21, 2022 8:30:00 AM</i>	<i>Hydraulic Oil</i>	<i>35.00</i>	<i>L</i>	<i>Service Road near WTC</i>	<i>A failed hydraulic line on a telehandler resulted in a spill of 35 L of Hydraulic Oil to the industrial pad.</i>	<i>Spill was contained, and contaminated soil or snow picked up and disposed of in a Quatrex bag at the hazmat laydown.</i>