Former Meadowbank Exploration Camp Site

Diesel Generator Spill

May 26th, 2017

Situation Report on

September 21st, 2017

Prepared by:

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Introduction

On May 26, 2017, a diesel spill occurred at the former Meadowbank exploration camp site, located approximately 10km from the Meadowbank mine by the All Weather Access Road.

The spill was reported to the spill report line and other regulators on May 27th as a 900-litre diesel spill. The re-evaluation of the volume increased the volume spilled to around 1300 litres.

Remediation actions

Phase 1: May - June 2017

The spill occurred on May 26th and immediate actions to limit the impact were undertaken.

- The spill was stopped as soon as seen by tightening a junction on the fuel line between the fuel tank and the generator.
- Absorbents were installed to remove the free fuel.
- A trench was dug and absorbents were installed to intercept any migrating fuel.
- A preventive dike was built to prevent water from entering in the excavation area.
- Around 10 days of work with an excavator and a truck were done to remove the contaminated soil. The excavated soil volume totalized 282 m^3.
- A consultant was hired to support and supervise the remediation activities on the site.
- The contaminated soil removed was brought to the Meadowbank mine landfarm for treatment.
- Sampling was done in the excavated area, but some of the samples showed that some contamination remained in part of the excavation.

Phase 2: August 2017

- Many seacans were moved to allow further investigation and decontamination activities.
- Major excavation works were completed on August 26th and 27th, 20 loads of 40 tons truck were excavated and transported to the Meadowbank mine landfarm.
- Organoleptic tests were conducted to confirm the effectiveness of the remediation works.
- 6 new samples were taken in the area where previous samples showed remaining contamination above criteria.
- All sample analysis results were below the criteria for Agriculture/Wetland criteria.
- All results are compiled in Table 2.

Sampling Results

The sampling results are compared with the GN Agricultural/Wildland remediation criteria.

Table 1, Remediation criteria

Parameter	Criteria (mg/kg)	
	Agricultural/ Wildland	*Industrial*
Benzene	0.03	0.03
Toluene	0.37	0.37
Ethylbenzene	0.082	0.082
Xylene	11	11
PHC Fraction 1	30	320
PHC Fraction 2	150	260
PHC Fraction 3	300	1700
PHC Fraction 4	2800	3300

Table 2, Sampling Results – Phases 1 and 2

			Parameters								
			Humidity	Benzene	Toluene	Ethylbenzene	Xylene	PHC Fraction 1	PHC Fraction 2	PHC Fraction 3	PHC Fraction 4
	Criteria	Agricultural / Wildland	-	0.03	0.37	0.082	11	30	150	300	2800
Date	Lab number	sample ID	%	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
2017-06-07	BKG01	1	40.3	<0.03	<0.06	<0.06	<0.06	<10	<10	<50	110
2017-06-07	S01	2	5.34	<0.03	<0.06	<0.06	<0.06	<10	<10	<50	<50
2017-06-07	B06	3	20.4	<0.03	<0.06	<0.06	<0.06	<10	<10	<50	<50
2017-06-07	B05	4	23.6	<0.03	<0.06	<0.06	<0.06	<10	270	150	<50
2017-06-07	B04	5	5.86	<0.03	<0.06	<0.06	<0.06	<10	490	110	<50
2017-06-09	B03	6	28.6	<0.03	<0.06	<0.06	<0.06	<10	48	<50	<50
2017-06-09	E03	7	12.4	<0.03	<0.06	<0.06	<0.06	<10	57	<50	<50
2017-06-09	W03	8	16.6	<0.03	<0.06	<0.06	<0.06	<10	610	73	93
2017-06-09	W02	9	3.54	<0.03	<0.06	<0.06	<0.06	<10	2200	170	<50
2017-06-09	B02	10	10.2	<0.03	<0.06	<0.06	<0.06	<10	2800	170	58
2017-06-09	E02	11	12.9	<0.03	<0.06	<0.06	<0.06	<10	15	<50	<50
2017-06-09	E01	12	4.73	<0.03	<0.06	<0.06	<0.06	<10	<10	<50	<50
2017-06-09	B01	13	7.77	<0.03	<0.06	<0.06	<0.06	<10	350	<50	<50
2017-06-09	W01	14	6.3	<0.03	<0.06	<0.06	<0.06	<10	56	58	<50
2017-06-09	N01	15	6.01	<0.03	<0.06	<0.06	<0.06	<10	100	58	<50
2017-06-07	BKG02	16	8.62	<0.03	<0.06	<0.06	<0.06	<10	<10	64	<50
2017-08-25	V-67299	17	12.6	<0.03	<0.06	<0.06	<0.06	<10	<10	<50	<50
2017-08-26	V-67300	18	21.4	<0.03	<0.06	<0.06	<0.06	<10	<10	<50	<50
2017-08-26	V-67301	19	16	<0.03	<0.06	<0.06	<0.06	<10	<10	<50	67
2017-08-26	V-67302	20	19.4	<0.03	<0.06	<0.06	<0.06	<10	23	55	<50
2017-08-26	V-67303	21	7.39	<0.03	<0.06	<0.06	<0.06	<10	<10	64	<50
2017-08-26	V-67304	22	8.55	<0.03	<0.06	<0.06	<0.06	<10	<10	<50	<50

Table 3, Coordinates

GPS coordinates - samples location				
Point ID		Easting	Northing	Date
BKG01	1	633812	7214849	2017-06-07
S01	2	633813	7214936	2017-06-07
B06	3	633819	7214936	2017-06-07
B05	4	633824	7214939	2017-06-07
B04	5	633835	7214941	2017-06-07
B03	6	633842	7214943	2017-06-09
E03	7	633844	7214941	2017-06-09
W03	8	633841	7214949	2017-06-09
W02	9	633848	7214951	2017-06-09
B02	10	633850	7214945	2017-06-09
E02	11	633854	7214939	2017-06-09
E01	12	633862	7214947	2017-06-09
B01	13	633859	7214948	2017-06-09
W01	14	633859	7214952	2017-06-09
N01	15	633863	7214951	2017-06-09
BGK02	16	633886	7214962	2017-06-07
17	17	633858	7214951	2017-08-25
18	18	633845	7214947	2017-08-26
19	19	633826	7214938	2017-08-26
20	20	633833	7214940	2017-08-26
21	21	633839	7214947	2017-08-26
22	22	633843	7214952	2017-08-26

Figure 1, Excavation phase 2 and sampling points

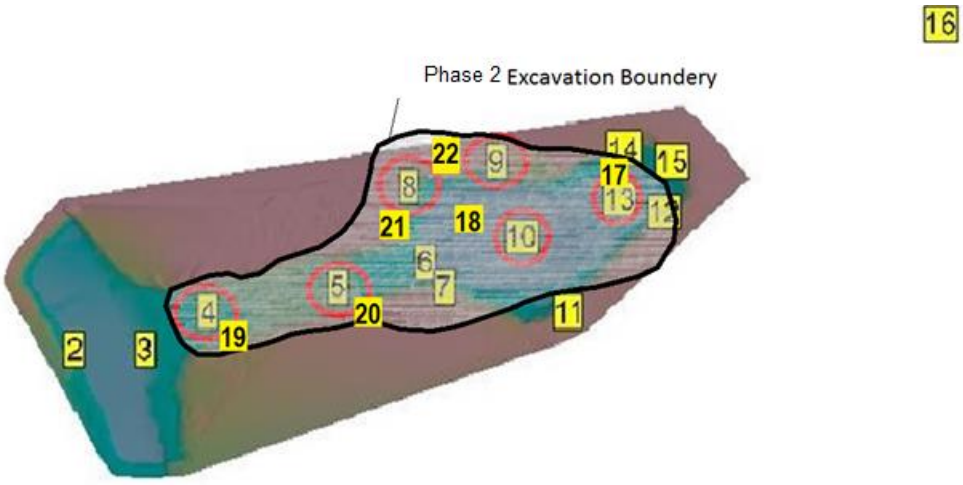
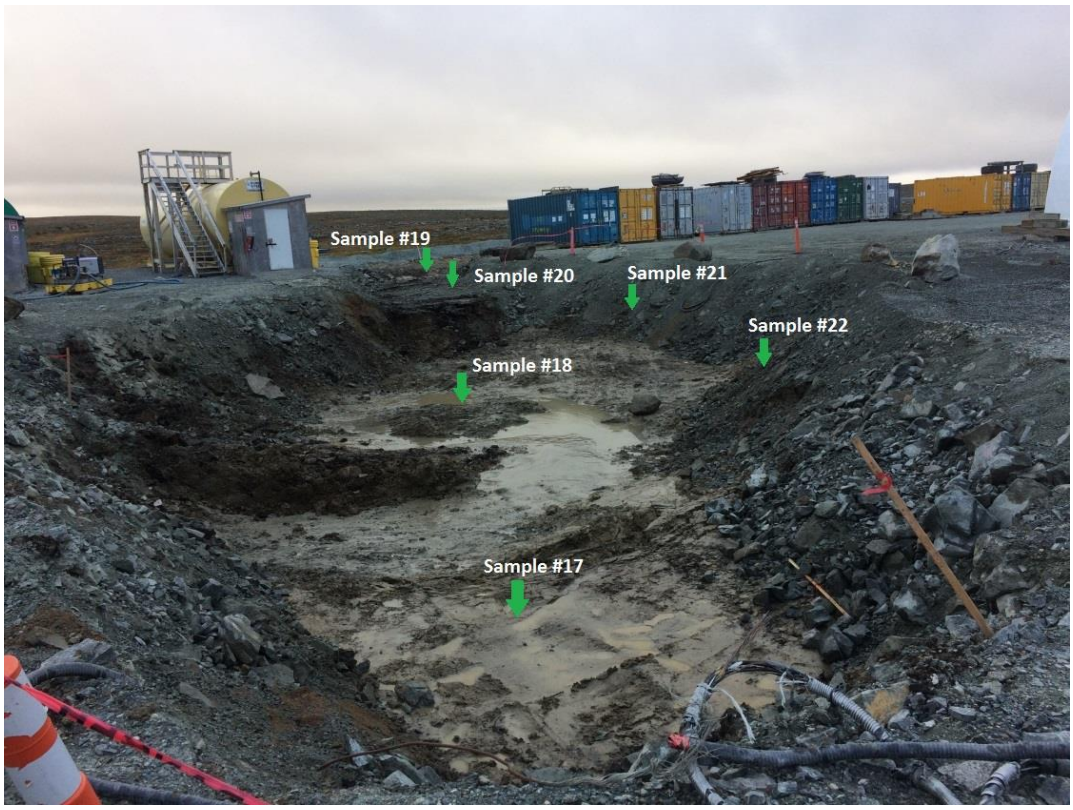


Figure 2, Excavation phase 2, August 2017

Figure 3, Excavation phase 2 completed and samples location



Conclusion

A total of approximately 700m³ of soil were excavated and transported to the Meadowbank mine landfarm to completely decontaminate the spill area. The results of the last samples show that the area is now completely decontaminated and respects the remediation criteria. All the contaminated soil was removed and transported to the Meadowbank mine landfarm. We now ask the authorization to backfill the hole and close the file.