



Non-Hazardous Landfill, Construction Report, Ulu Gold Project Interim Report Draft

Prepared for

Blue Star Gold Corp.

Prepared by



SRK Consulting (Canada) Inc.
1CB041.000
September 2022

Non-Hazardous Landfill, Construction Report, Ulu Gold Project Interim Report Draft

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1 Introduction

1.1 General

The Ulu Gold project (the Project) is located on Inuit-owned land in the Kitikmeot Region, Nunavut, within the Hood River watershed. It is located 126 km north of the Lupin mine.

The mineral claims holding the Ulu deposit were initially staked in 1988. Portal excavation at the Ulu site commenced in 1996 to confirm resource calculations and mining design for mill feed to the Lupin Mine. Equipment to construct the camp and develop the mine was mobilized to site via a winter road from the Lupin mine in 1996. Camp 3 was built at the esker sand quarry to facilitate construction of the airstrip, road and underground exploration site. It included tent accommodations, a garage and a fuel tank farm. Camp 3 was reclaimed in 2018/2019.

Underground development of the ramp ceased in August 1997 at the 155m level. The existing facilities at the Ulu underground exploration site consist of a 30-person camp with sleeping and dining quarters, a 22 m by 37 m vehicle repair shop, fuel containment areas (tanks removed in 2018) for bulk diesel and day tank storage, core storage area, core shack, and fuel staging area. The previous operator demolished unused facilities and stockpile piled them in preparation for disposal in the underground workings and in a landfill at the portal entrance. Blue Star intends to utilize a surface landfill that does not compromise the underground workings.

In support for renewal and amendment of the site water licence application submitted by Blue Star Gold Corporation (Blue Star), SRK Consulting (Canada) Inc. (SRK) was given the mandate to design a non-hazardous waste landfill facility (landfill) to contain non-hazardous wastes generated during ongoing remediation activities.

1.2 Report Objectives

The purpose of this as-built report is to provide a factual summary of the landfill activities to date, including timelines, construction materials, construction equipment, quality control and quality assurance activities, and deviations from design.

1.3 Design Overview

The landfill was designed to contain generally dry, non-leachate generating materials originating from the demolition of site infrastructure, progressive reclamation and closure activities. The landfilled waste will be covered by a 300 mm intermediate esker cover followed by a 300 mm final cover when complete.

A dry soil cover, esker sand, will be placed over the waste to create an isolation barrier to prevent wildlife contact during site inactivity periods (i.e. winter season or prolonged site shut-down). A minimum of 200 mm thick esker cover will be placed over the consolidated non-hazardous waste. The maximum slopes shall not exceed a grade of 4H:1V. Placement to be done in such a way as to minimise water accumulation on the facility.

See issue for construction drawings in Appendix C for additional detail.

1.4 Participants

The participants involved with the construction of the landfill are listed in Table 1-1. This list of companies is collectively referred to as the 'Project Team' throughout this report.

Table 1-1: Participants Involved in the Construction of Ulu Non-Hazardous Landfill

Role	Company
Client / Owner	Blue Star Gold Corp.
Design Engineer	SRK Consulting (Canada) Inc.
Site Construction QA	SRK Consulting (Canada) Inc. & Blue Star Gold Corp.
Equipment Decontamination & Cleaning	KBL Environmental Ltd.
Site Surveyor	Sub-Arctic Geomatics Ltd.
Construction Contractor and Earthworks QC	Ledcor Group

1.5 Main Tasks and Timeline

SRK provided construction quality assurance (QA) for the landfill and associated civil earthworks during construction. This included visits to complete the following inspections:

- Initial visit while staking of landfill footprint
- Foundation conditions prior to construction
- Equipment depollution (initial items)
- Mid-season visit to inspect ongoing waste placement
- End of field season prior to construction closeout

SRK did not provide full-time QA. SRK was on site between June 24 to 29, July 24 to 27 and September 2 to 5, 2021 (three QA visits in total). Items documented in this report that were completed outside of SRK's QA visits are based on communication with Blue Star and the QC activities completed by the Construction Contractor (Ledcor).

The main tasks involved with construction of the landfill included:

- Staking of the landfill footprint and survey control points;
- Foundation clearing and snow removal;
- Placement of esker for access into landfill footprint;
- Depolluting of equipment;
- Placement of waste within landfill footprint;
- Placement of esker sand to fill voids between waste;
- Cutting of large waste items for placement within landfill;
- Placement of interim cover;

A timeline of the main construction tasks is presented below in Table 1-2. The time periods shown are approximate.

Table 1-2: Landfill Construction Activities and Timeline

Activity	Period	SRK QA Presence
KBL Waste Depolluting	June 25 to 10, 2021	Partial
Staking of Landfill Footprint and Survey Markers	June 24 to 27, 2021	Yes
Staging Equipment	2020 field season and June 6 onwards	Partial
Preparing Access to Landfill Footprint	2020 field season and July 7 to July 18, 2021	Partial
Cutting of Waste	July 7 to July 30, 2021	Partial
Washing Waste Prior to Placement	July 17 to July 24, 2021	No
Placement of Waste	July 17 to Aug 21, 2021	Partial
Hauling And Stockpiling of Esker Sand	July 12 to Sep 20, 2021	No
Placement of Esker Sand Cover on Landfill	July 21 to Aug 26, 2021	No
Burn Clean Wood	July 30 to Aug 13, 2021	No
Pack Slopes and Touch-up Landfill	Sep 6 to Sep 15, 2021	No

As indicated in Table 1-2, there were some breaks in construction activities at the landfill due to equipment availability delays, and as equipment and personnel were at times reallocated to other projects on site.

1.6 Climatic Conditions

Temperature records were provided by Ledcor in the daily reports. During construction, the minimum recorded ambient air temperature was -4°C on September 17 while the maximum was +26°C on July 21, 2021 with an average high of 11.8°C and low of 2.9°C.

Precipitation was not recorded during the construction period.

1.7 Photo Record

Photographs were taken each day during QA site visits by SRK. A summarized photo record showing the construction activities is provided in Appendix B. Table 1-3 outlines the contents of the photo record.

Photos related to material cleaning can be found in Appendix C.

Table 1-3: Contents of Photo Record

Title	Photo Record Page
Landfill Construction Overview	1
General Waste Placement	2
Landfill Pre-Construction	3
Landfill Construction	4 to 20

2 Construction Documentation

2.1 Construction Drawings

Table 2-1 lists details for the latest revision of each Issued for Construction (IFC) drawing. The complete set of construction drawings is provided in Appendix C.

Table 2-1: Ulu Non-Hazardous Landfill Issued for Construction Drawings

Drawing Number	Title	Latest Revision	Date of Issue
1	Landfill Plan	0	March, 2021
2	Landfill Sections	0	March, 2021

2.2 Daily Site Reporting

SRK had a Site Engineer present for three inspections during construction. Full-time QA was not provided by SRK; however, Blue Star and the Construction Contractor carried out QC checks and provided photos of construction progress throughout the construction. The Ledcor Project Engineer compiled a set of field photos and notes for each day of construction. These were done to summarize daily construction activities and provide specific details on factual observations used to track progress and inform decisions. The field notes were generally used to assist internal communication between the SRK Engineer, Blue Star and Ledcor. These correspondences are considered informal communications and are not presented as part of this report. The content of these messages however has been used when preparing this draft construction report and the corresponding as-built drawings.

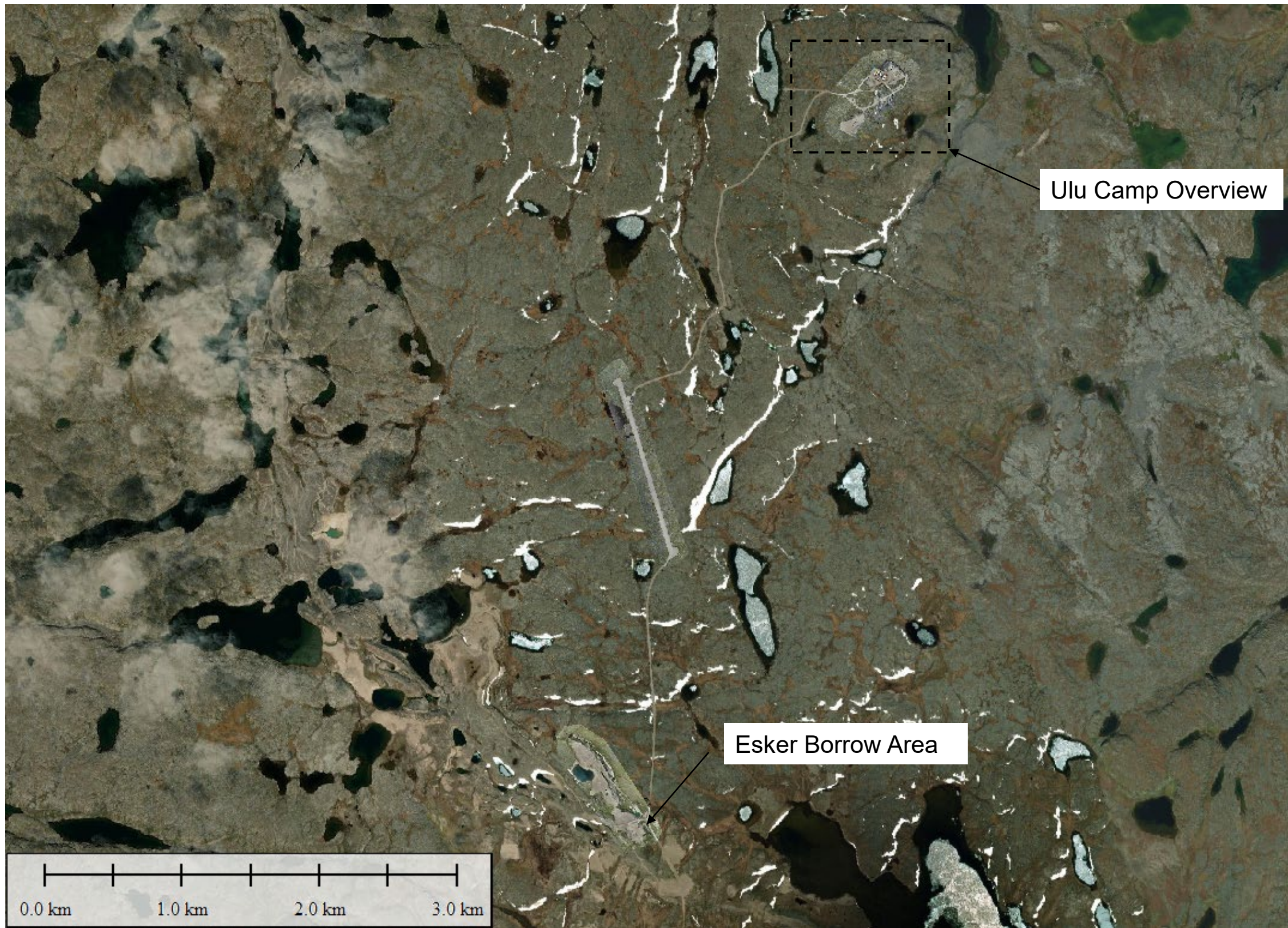
2.3 Construction Materials

2.3.1 Esker Sand

Esker sand was used during the construction of the landfill. The Esker material used as fill and cover is geochemically suitable, borrowed locally on-site from the esker borrow area illustrated in Figure 2-1. The material came from two sources, the borrow area located approximately 6 km south-west of Ulu camp and remediated esker sand stockpiled at Ulu Camp (SRK 2020a). Table 2-2 presents a summary of the materials used, as well as the location and the source of the material.

Table 2-2: Summary of Materials used in the Landfill Construction

Material	Location/Use
Esker Sand	Esker Borrow
Esker Sand	Ulu Camp
Esker Sand (Manage by Burial)	Ulu Camp



Ulu Camp Overview

Esker Borrow Area



Non-Hazardous Landfill

Ulu Overview

Job No: CAPR001821
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Ulu Gold Project

Date: September 2022	Approved: DG	Figure: 2-1
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2.4 Summary of Material Quantities

The as-built material quantities used for the landfill construction are summarized in Table 2-3.

The as-built esker quantity is higher than the estimated neat-line design quantities. This can be attributed primarily to additional material intermittently placed within the waste voids as well as cover to mitigate waste being blown out of the landfill area due to high winds. The interim cover is also thicker than specified in areas with the intention to salvage esker prior to restarting landfilling the following season.

Table 2-3: As-Built vs Design Material Quantities

Material	Quantity (m ³)	
	As-Built	Design
Non-Hazardous Waste ¹	8,729	21,100
Esker Sand (Remediated)	304	1,125
Esker Sand (Interim Cover)	3,752	2,485
Rock or Coarse Esker (Final Cover) ²	0	3,130

Note(s):

1. Waste volumes based on total volume calculated by Sub-Arctic August 25, 2021 excluding the esker material tally.
2. Investigation into the possible use of esker sand as final cover in progress at the time of writing this report.

3 Construction

3.1 Equipment

3.1.1 Mobile Equipment

Conventional earth moving equipment was used in construction of the non-hazardous landfill as listed in Table 3-1.

Table 3-1: Summary of Equipment used for Landfill Construction

Equipment Type	Manufacturer	Model	Attachments
Bulldozer	Caterpillar	D8	n/a
Excavator	Caterpillar	311	Thumb
Front End Loader	Caterpillar	966	n/a
Haul Truck X 2	Caterpillar	769C	n/a
Grader	Caterpillar	14G	n/a

A variety of other non-mobile equipment was also used to support the construction activities.

3.2 Survey Control

Survey control and reporting was performed by Sub-Arctic. Surveying was performed with Leica GS18 GPS equipment using the UTM zone 13 coordinate system and NAD83 datum. All survey data was processed on site by Sub-Arctic personnel. Interim as-built surveys were sent to SRK periodically to review construction progress. The survey data was used to check grades, minimum thicknesses, and waste placement extents for field decisions, as well as to prepare progressive volume checks. Typical accuracy of the system was within $\pm 5\text{cm}$.

3.3 Foundation Preparation

Foundation preparation involved clearing of remaining snow, removal of larger boulders and placement of esker sand to allow for access within the landfill footprint. SRK was not on site to observe the main clearing activities but was advised by Blue Star that all foundation clearing activities were completed.

3.4 Cleaning/Depolluting of Waste Material

As outline in KBL report, 21-129NT Ulu Mine Equipment Depolluting (KBL 2021), KBL personnel Jack Korycki (Heavy Duty Diesel Mechanic) and Gord Stewart (Waste Technician) completed the equipment depollution from June 25 to July 10, 2021. 21 of 24 identified pieces of equipment were depolluted, the remaining 4 were staged for depollution the following field season due to time constraints.

The depollution process was completed as follows:

- Identify and remove any remaining batteries or refrigerant;

- Identify tanks and lines containing hazardous material fluids in equipment;
- Gravity drained fluids into secondary containment (drain pans, berms and pails);
- Complete 2-3 phase flush process;
- Consolidate all removed fluids by type into larger containers such as pails, drums and totes; and
- Transport and dispose of consolidated material to KBL’s Yellowknife transfer facility.

Table 3-2 Summary of Total Hazardous Material Removed summarises the total amount of hazardous materials removed from all depolluted equipment.

Table 3-2: Summary of Total Hazardous Material Removed (KBL 2021)

Material	Unit	Value
Batteries	Units	4 incl. 4 lead battery connectors
Gas/Diesel	ℓ	1043.5
Antifreeze	ℓ	108
Engine Oil	ℓ	258
Hydraulic Oil	ℓ	685
Final Drive Oil	ℓ	165
Differential/Axle Oil	ℓ	115
Transmission Oil	ℓ	117
Power Steering Fluid	ℓ	0.5
Brake Fluid	ℓ	1

3.5 Cutting of Waste Material

Waste items which could not be crushed/compacted by the excavator and bulldozer as well as obscurely shaped items which would create voids within the landfill were identified and cut into more appropriate pieces to allow for efficient placement within the landfill. These items include large equipment/machinery, tanks, shipping containers etc. Cutting continued intermittently between July 7 and July 30, 2021.

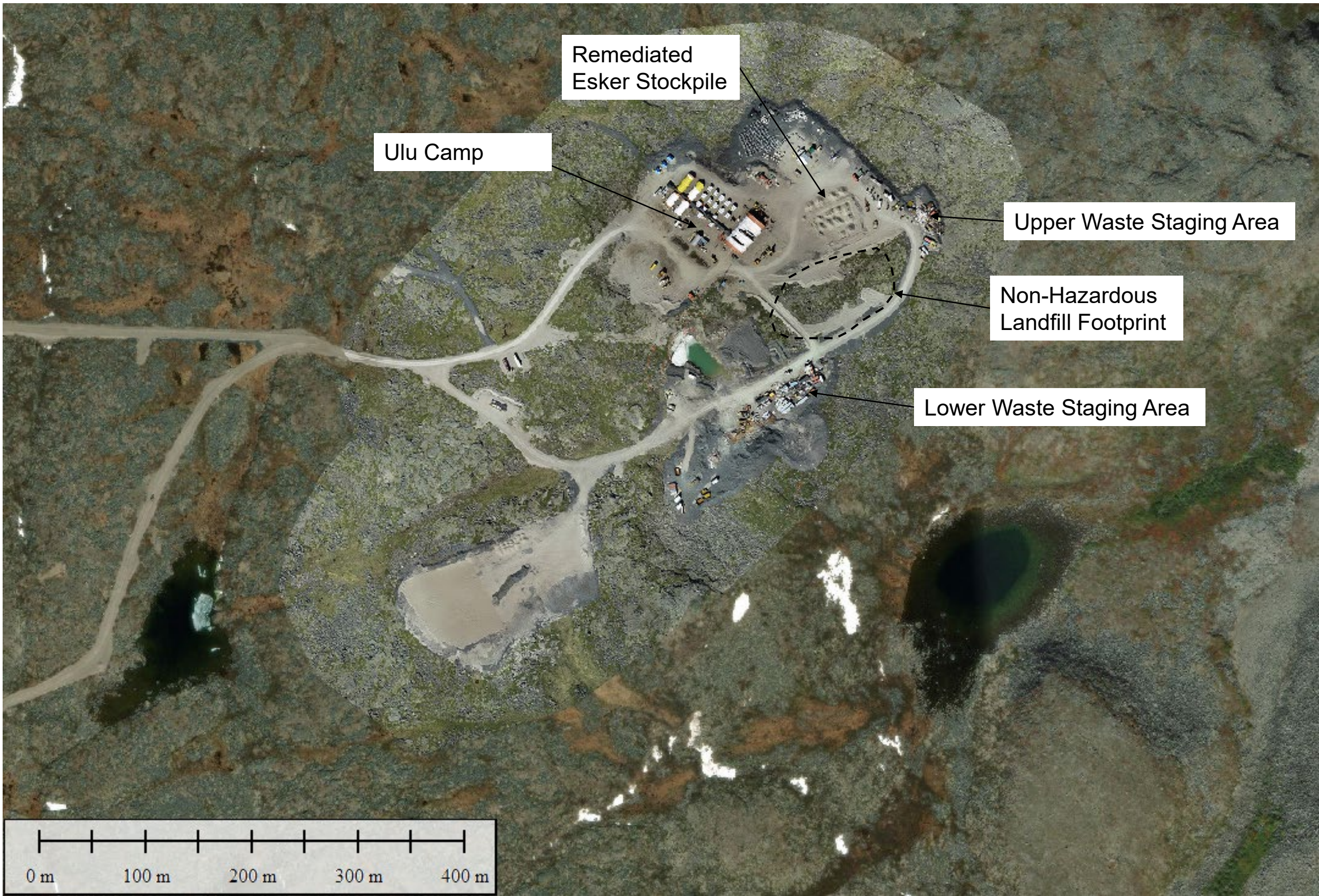
3.6 Placement of Waste Material

The waste material was consolidated and sorted in the upper and lower staging areas, see Figure 3-1. Staging included the consolidation of loose waste within available seacans and cut tanks for transport into the landfill area. Placement within the landfill was generally done by front end loader, excavator and pushed/pull but the bulldozer.

Each lift was compacted using the excavator and/or bulldozer tracks to minimize the void as much as reasonably possible. Where sufficient compaction could not be achieved, large voids between waste, the voids were filled with esker sand and recompact.

During placement it was found that some waste items when compacted resulted in lighter debris being blown out of the landfill footprint during windy periods. To prevent the transport of waste debris out of the landfill footprint, the contractor placed a thin layer of esker over the waste to secure it in place. This was done continuously throughout the landfill operations/construction resulting in a higher esker demand than initially anticipated; see Section 2.4.

Waste placement and compaction was conducted as per the Landfill Management Plan (BS 2020).



 Job No: CAPR001821 Filename: Ulu_Landfill_Figures_DG.pptx	 Ulu Gold Project	Non-Hazardous Landfill		
		Ulu Camp Overview		
		Date: September 2022	Approved: DG	Figure: 3-1

3.7 Placement of Cover Material

Esker material was hauled to the landfill, placed within the landfill footprint and dozed over the waste material. The load and haul was completed using the CAT 966 Front End Loader and CAT 969 Dup Trucks. Esker material was placed and allowed to fill the voids within the waste material to prevent future percolation of the cover material into the voids. Compaction was achieved using the bulldozer tracks and roller.

The interim cover thickness covered all waste material with varied depth across the facility. There is a minimum thickness of 0.2m and a maximum of in excess of 1m in places; this due to the interim closure resulting in irregular waste surface.

4 Deviation from Design

4.1 Cover Slope

The interim closure design criteria indicate the slope angles may not exceed 4H:1V. Majority of the landfill cover satisfies this criterion, however, consolidated waste in seacans and cut up tanks formed an ~2m step along the northern edge which was filled with esker material to a slope angle of ~1H:1.5V.

At this stage of design the landfill is not yet complete and, therefore, the deviation from design can be managed until such time the landfill construction is completed. It is recommended the client inspect the slopes which do not meet the criteria and repair any erosion which may have occurred during the project closure period.

5 Quality Assurance and Quality Control

5.1 General

SRK was responsible for the QA while Ledcor (Construction Contractor) and Blue Star assumed responsibly for QC of berm fill materials.

5.2 Equipment Depolluting

QC was completed by both KBL and Blue Star during the depolluting process. Once the hazardous material was removed from the equipment and all phases of flushing complete, KBL personnel reviewed the equipment checklist and procedure with the Blue Star site representative. Blue star then inspected and signed off on each piece of equipment when depollution was considered complete; for more details see Appendix D.

There were some checklists not signed by the Blue Star representative, in this case the checklists were review in conjunction with photo records.

6 Remaining Works

The landfill was not completed during the 2021 field season. The following must be noted for the continued construction of the landfill:

- Depolluting of the remaining equipment allocated for disposal within the landfill must be completed prior to placement within the landfill.
- The interim cover is intended as a wildlife barrier between summer field seasons in the event the landfill was not completed in a single season. The current cover will not suffice as a medium- or long-term cover and should Blue Star plan to extend the duration prior to completing the landfill, it is recommended a more appropriate cover is placed.
- Ongoing monitoring and visual inspections of the landfill should be completed on site as per the Landfill Management Plan (BS 2020).

This report, Non-Hazardous Landfill, Construction Report, Ulu Gold Project Interim Report Draft, was prepared by SRK Consulting (Canada) Inc.

DRAFT

Darryl Godley, EIT, BSc
Senior Consultant

All data used as source material plus the text, tables, figures, and attachments of this document have been reviewed and prepared in accordance with generally accepted professional engineering and environmental practices.

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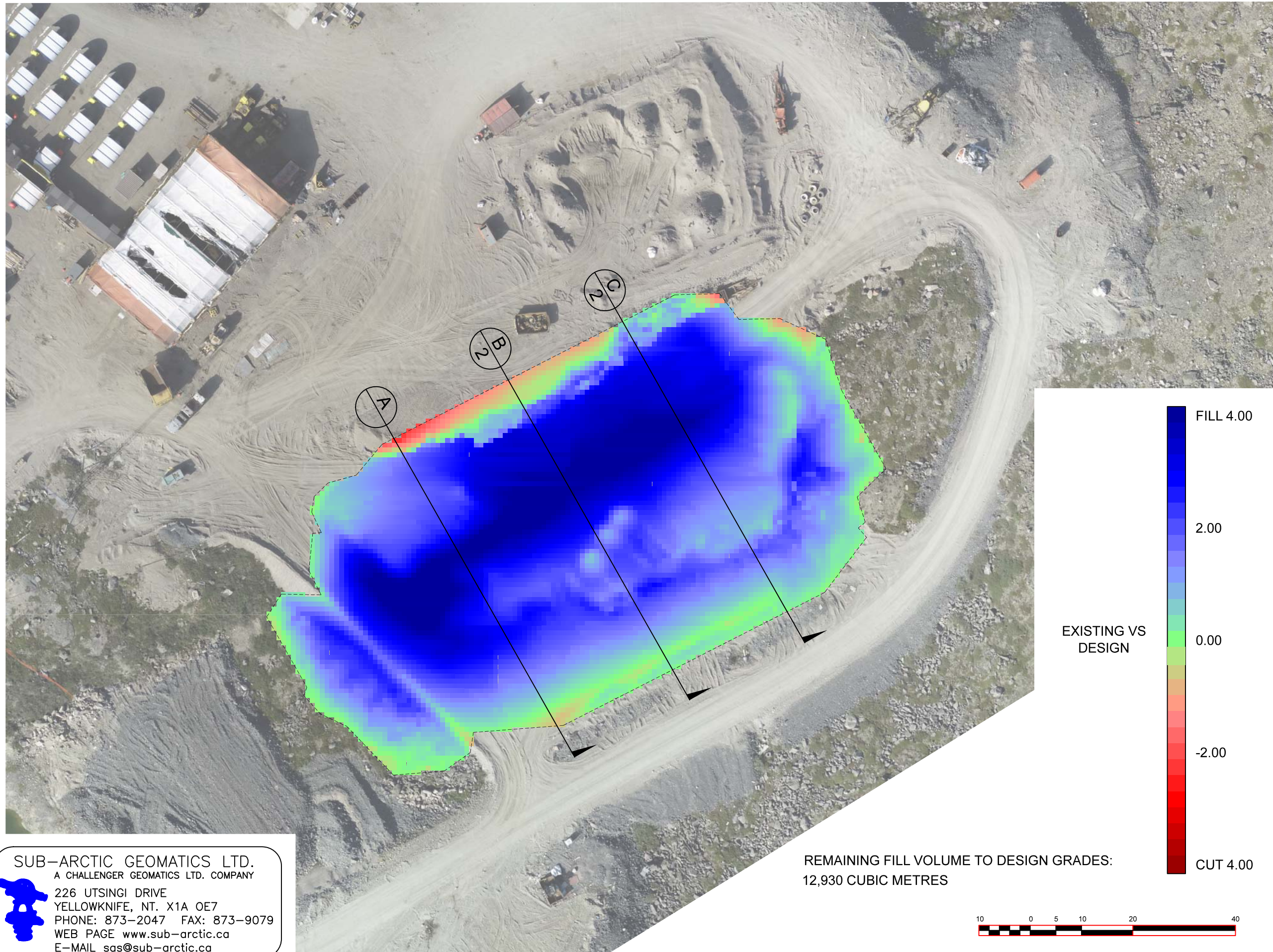
The opinions expressed in this report have been based on the information available to SRK at the time of preparation. SRK has exercised all due care in reviewing information supplied by others for use on this project. Whilst SRK has compared key supplied data with expected values, the accuracy of the results and conclusions from the review are entirely reliant on the accuracy and completeness of the supplied data. SRK does not accept responsibility for any errors or omissions in the supplied information, except to the extent that SRK was hired to verify the data.

7 References

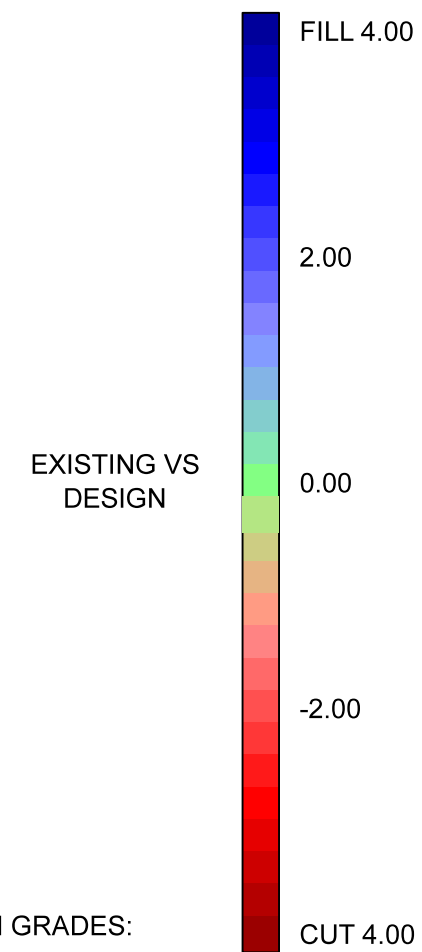
SRK Consulting (Canada) Inc., (2020a). Petroleum Hydrocarbon Soil Remediation Criteria for Progressive Reclamation of the Ulu Gold Project Memorandum, Ulu Gold Project. Memo prepared for Blue Star Gold Corp., June 202.

KBL Environmental Ltd. (2021). 21-129NT Ulu Mine Equipment Depolluting Report. Prepared for Blue Star Gold Corp. November 19, 2021.

Blue Star Gold Corp. (2020). Landfill Management Plan, Ulu Gold project. March, 2020.



REMAINING FILL VOLUME TO DESIGN GRADES:
12,930 CUBIC METRES



NOTES:

DATE OF UAV FLIGHT: AUG 14, 2021

ALL DISTANCES ARE EXPRESSED IN METRES OR DECIMALS THEREOF.

NO.	REVISION\ISSUE	DATE:

DRAWN BY: MD
CHECKED BY: MD

BLUE STAR GOLD

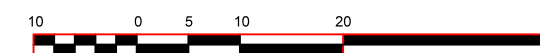
PROGRESS TRACKING
OF
LANDFILL AREA
ULU MINE – N.U.

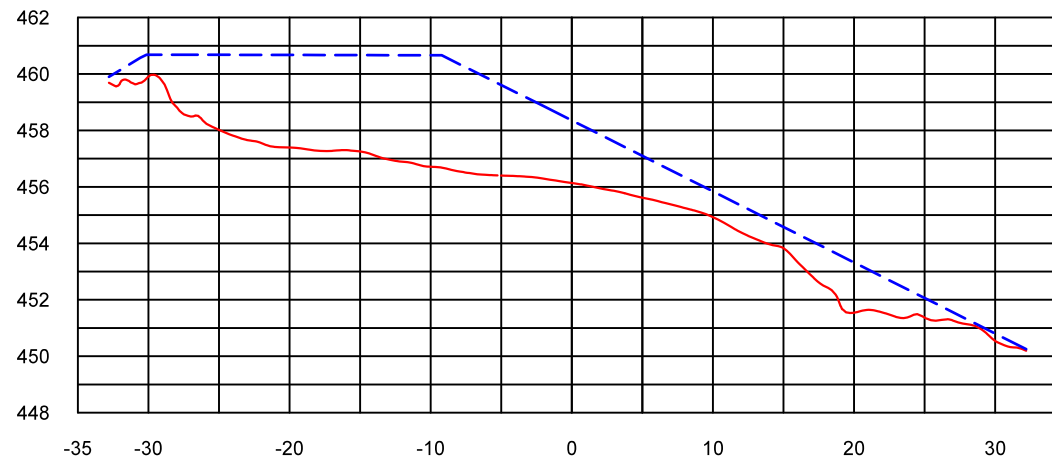
PROJECT NO.: 80694
FILE NO.:
80694-PROGRESS 4.dwg

DATE: AUGUST 25, 2021

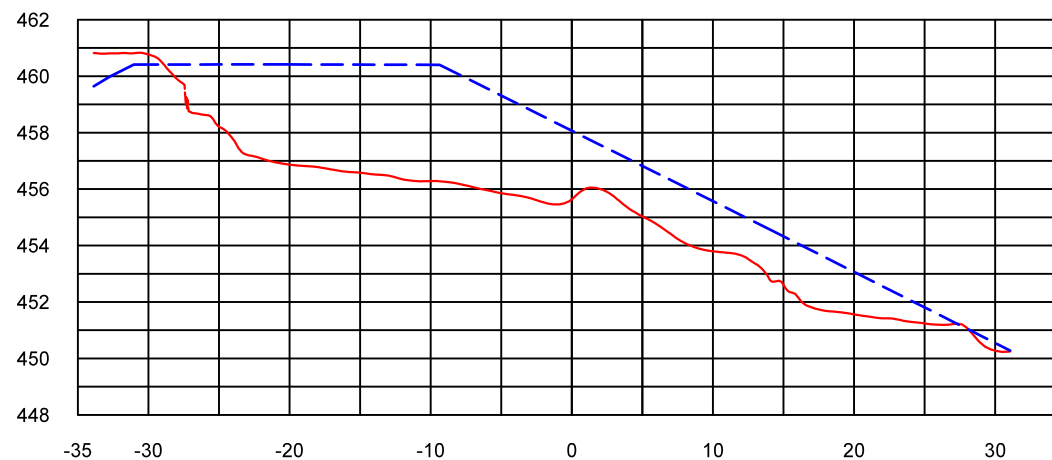
SCALE: AS SHOWN SHEET 1 OF 2

SUB-ARCTIC GEOMATICS LTD.
A CHALLENGER GEOMATICS LTD. COMPANY
226 UTSINGI DRIVE
YELLOWKNIFE, NT. X1A 0E7
PHONE: 873-2047 FAX: 873-9079
WEB PAGE www.sub-arctic.ca
E-MAIL sas@sub-arctic.ca

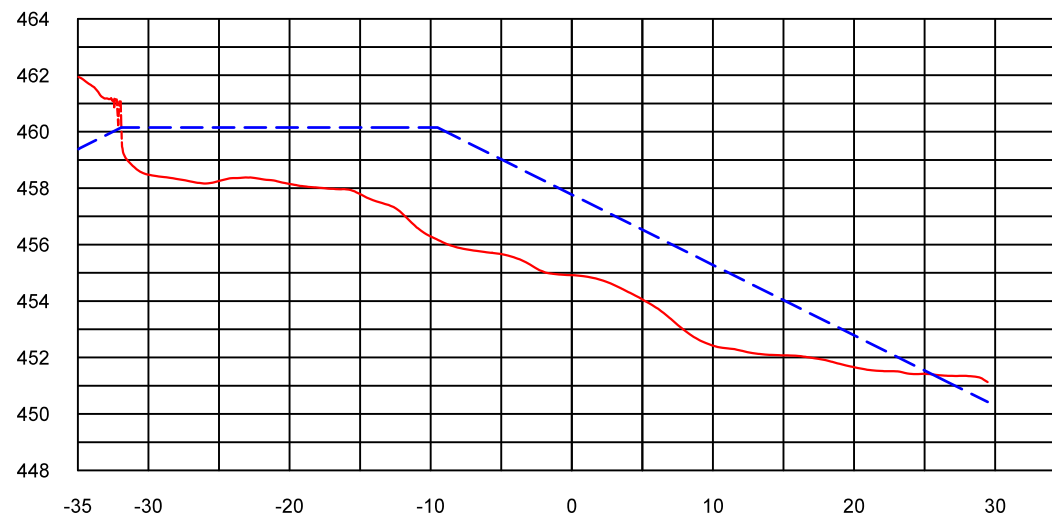




C



B



A

LEGEND
 DESIGN - - - - -
 EXISTING - - - - -

NOTES:
 DATE OF UAV FLIGHT: AUG 14, 2021
 ALL DISTANCES ARE EXPRESSED IN METRES OR DECIMALS THEREOF.

NO.	REVISION\ISSUE	DATE:

DRAWN BY: MD
 CHECKED BY: MD

BLUE STAR GOLD

PROGRESS TRACKING
 OF
 LANDFILL AREA
 ULU MINE – N.U.

PROJECT NO.: 80694
 FILE NO.:
 80694-PROGRESS 4.dwg

DATE: AUGUST 25, 2021
 SCALE: AS SHOWN SHEET 2 OF 2

SUB-ARCTIC GEOMATICS LTD.
 A CHALLENGER GEOMATICS LTD. COMPANY
 226 UTSINGI DRIVE
 YELLOWKNIFE, NT. X1A 0E7
 PHONE: 873-2047 FAX: 873-9079
 WEB PAGE www.sub-arctic.ca
 E-MAIL sas@sub-arctic.ca

Appendix B – Construction Photo Record

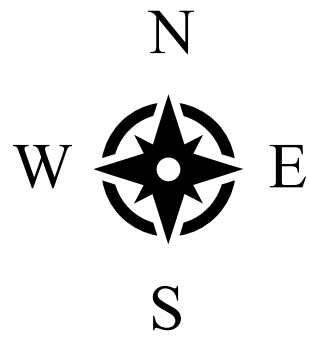


The beginning of the 2021 field season



The end of the 2021 field season

		Non-Hazardous Landfill		
		Landfill Construction Overview		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 1



- 1 Container, tanks and miscellaneous waste including steel and tyres.
- 2 Steel sheeting, pipes and deconstructed tanks
- 3 Tyres and miscellaneous waste
- 4 Deconstructed bunk housing and miscellaneous waste
- 5 Cleaned and cut equipment (surface and underground) and generators
- 6 Concrete



		Non-Hazardous Landfill		
		General Waste Placement		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 2



An aerial view of the site on June 24, 2021



The west side of the site facing east as of June 24, 2021



The east side of the site facing west as of June 25, 2021



An aerial view of the site on June 26, 2021

		Non-Hazardous Landfill		
		Landfill Pre-Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 3



The south side of the site facing north on July 7, 2021



Equipment placement prior to cutting on July 7, 2021



A new access road under construction on July 7, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 4



Esker sand used for access and foundation leveling on July 15, 2021



Transporting esker sand on July 18, 2021



Debris placement and esker cover on July 16, 2021



Job No: 1CB041.000
 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt



Ulu Gold Project

Non-Hazardous Landfill

Landfill Construction

Date:
September 2022

Approved:
DG

Figure:
5



Disassembly of Bunkhouses on July 19, 2021



Continued bunkhouse placement and disassembly on July 19, 2021



The south side of the site facing north on July 19, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
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Fuel truck placement in the landfill on July 20, 2021



Esker sand placed over bunkhouses on July 21, 2021



Fuel truck dismantling progress as of July 22, 2021



Esker sand placed over bunkhouses on July 21, 2021



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Ulu Gold Project

Non-Hazardous Landfill

Landfill Construction

Date:
September 2022

Approved:
DG

Figure:



Steel waste placed in the landfill. July 20, 2021



Bulldozer placing steel in the landfill. July 22, 2021



Underground mine equipment placed in the landfill. July 20, 2021



A generator placed in the landfill. July 21, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 8



The south side of the site facing north – staging shipping containers on July 23, 2021



Underground equipment placement. July 23, 2021



Surface haul truck placed. July 24, 2021



The north side of the site facing southwest on July 23, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
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Seacan filled with waste on July 23, 2021



Tanks filled with waste. July 24, 2021



Seacan filled and compacted in landfill on July 24, 2021



Shipping containers placed. July 25, 2021



Job No: 1CB041.000
 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt



Ulu Gold Project

Non-Hazardous Landfill

Landfill Construction

Date: September 2022	Approved: DG	Figure: 10
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Tanks filled with waste were placed next to trucks. July 25, 2021



Tanks filled with waste were placed next to trucks. July 25, 2021



Clean tanks were staged in the landfill for cutting. July 25, 2021



Tanks filled with waste were staged. July 25, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 11



Progress overview on July 27, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 12



Waste placement and compaction on August 2, 2021



The east side of the site facing west, esker placement within voids and wind cover on August 3, 2021



The east side of the site facing west on August 3, 2021



The north side of the site facing south on August 2, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 13



The south side of the site facing north on August 3, 2021



Unloading esker sand on August 3, 2021



The northeast side of the site facing southwest on August 3, 2021



Loading waste in tanks on August 3, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Pholog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 14



The west side of the site facing east with material placement on August 7, 2021



The west side of the site facing east on August 9, 2021



Burning of clean wood on August 9, 2021



Placing esker sand on August 9, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 15



Steel in the shipping containers on August 16, 2021



The northwest side of the site facing southeast on August 10, 2021



The north side of the site facing south with esker void fill and cover on August 9, 2021



Tires in the shipping containers. August 10, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 16



The south side of the site facing north on August 12, 2021



The south side of the site facing north on August 12, 2021



The east side of the site facing west on August 12, 2021

 Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	 Ulu Gold Project	Non-Hazardous Landfill		
		Landfill Construction		
		Date: September 2022	Approved: DG	Figure: 17



The south side of the site facing north. August 12, 2021



Esker sand placed over waste. August 10, 2021



Concrete block placement on August 12, 2021



Esker sand placed over waste. August 13, 2021

		Non-Hazardous Landfill		
		Landfill Construction		
Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Pholog_Rev2_DG.ppt	Ulu Gold Project	Date: September 2022	Approved: DG	Figure: 18



Steel in the shipping containers. August 16, 2021



Esker sand cover. August 16, 2021



The north side facing south on August 16, 2021

 Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	 Ulu Gold Project	Non-Hazardous Landfill		
		Landfill Construction		
		Date: September 2022	Approved: DG	Figure: 19



The south side of the site facing north on August 19, 2021



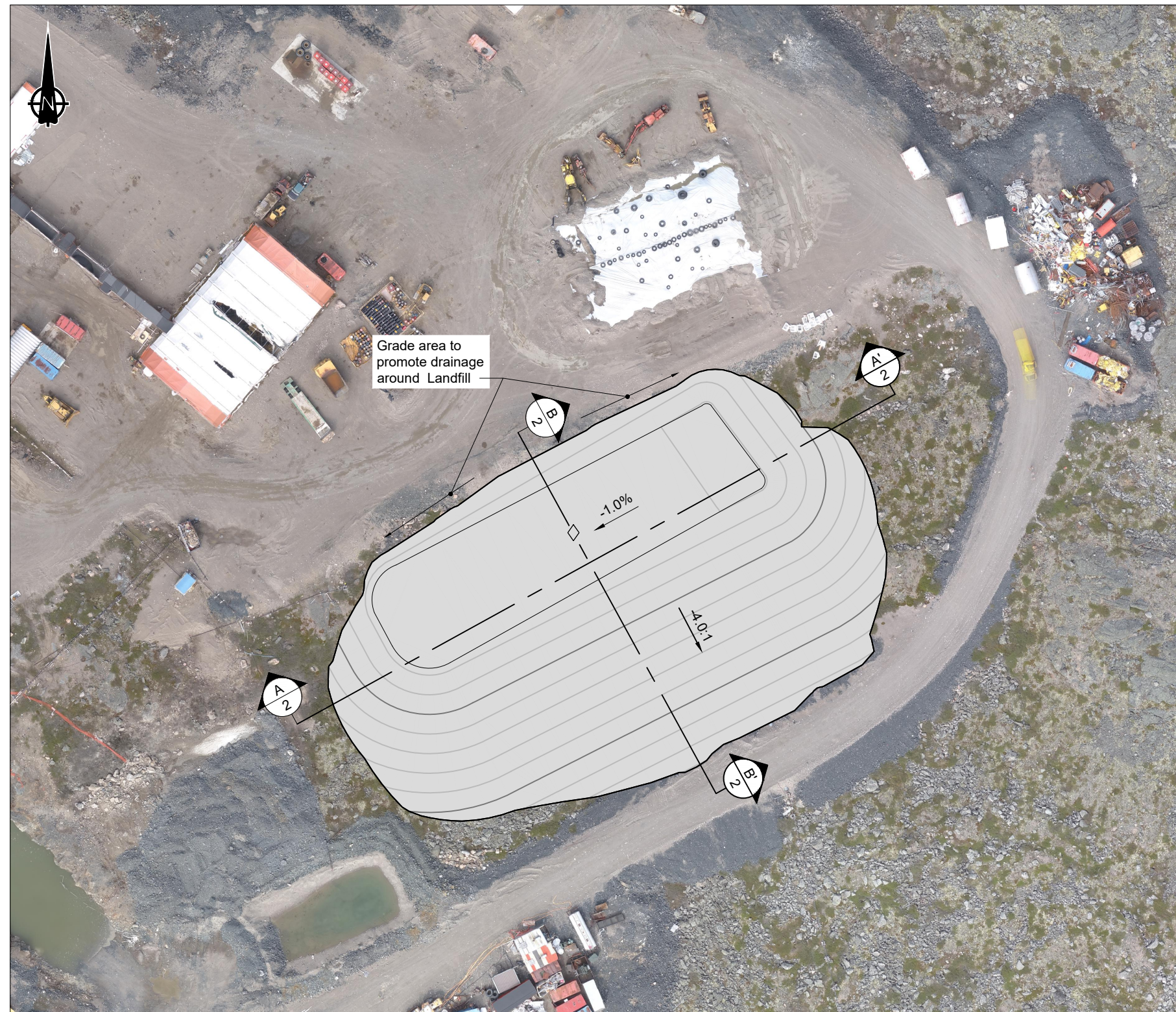
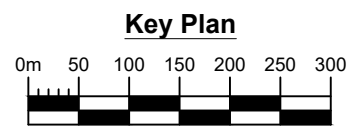
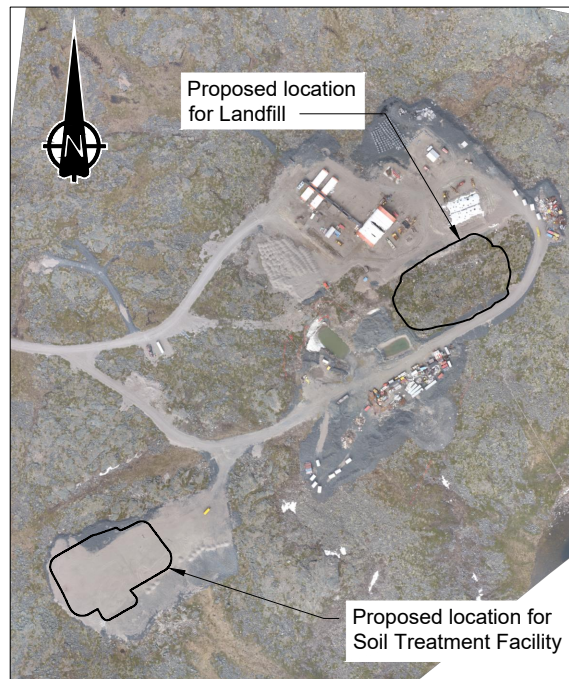
The north side of the site facing southwest with interim cover compaction on August 19, 2021



The north side of the site facing southeast with interim cover compaction on August 19, 2021

 Job No: 1CB041.000 Filename: AppendixC_Ulu_Landfill_Photolog_Rev2_DG.ppt	 Ulu Gold Project	Non-Hazardous Landfill		
		Landfill Construction		
		Date: September 2022	Approved: DG	Figure: 20

Appendix C – Issued for Construction Drawings



Landfill - Plan



LEGEND

Design Infrastructure

NOTES

1. Contours shown at 1.0m intervals.
2. All dimensions are in meters unless otherwise noted.
3. Limits of existing roadway surfaces are approximate.
4. Final Cover volume estimate based on 350mm cover to accommodate possible oversize material.
5. All construction material to be approved by the Design Engineer.
6. All construction to be completed in accordance with the technical specifications in the design memorandum (Ulu Gold Project Non-Hazardous Waste Landfill Design. March 2020. Project No. 1CB041.000).

REFERENCE

1. Coordinate System is WGS84 UTM Zone 12N.
2. Original ground surface is created from historic data contours in drawing ULUTOPO.DWG.
3. Background Image from drone survey completed 07/17/2019.

Landfill Volumes	
Material	Volume m ³
General Waste	20,100
Interim Cover	2485
Final Cover	3130

(See Note 5)

DRAFT
NOT FOR CONSTRUCTION



Ulu Gold Project

Landfill Plan

SRK JOB NO.: 1CB041.000

FILE NAME: 1CB041.000 Contaminated Landfill.dwg




Blue Star Gold Corp.

DATE:
March 2020

APPROVED:

FIGURE:
1

LEGEND

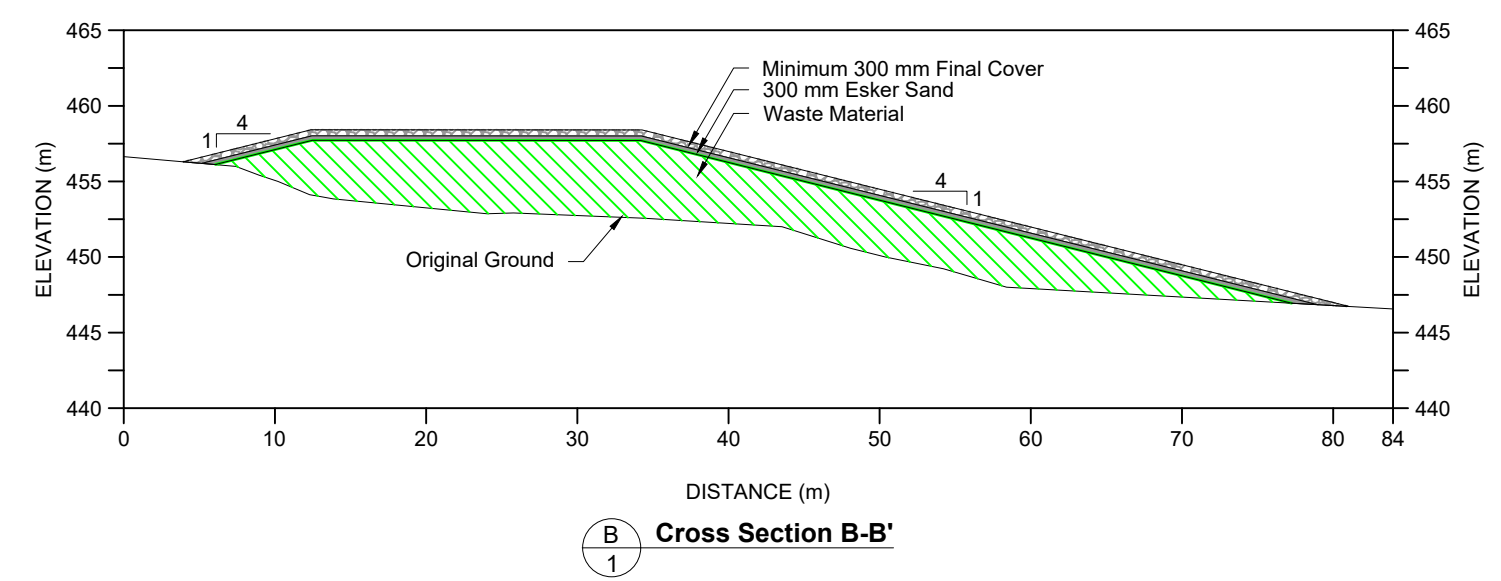
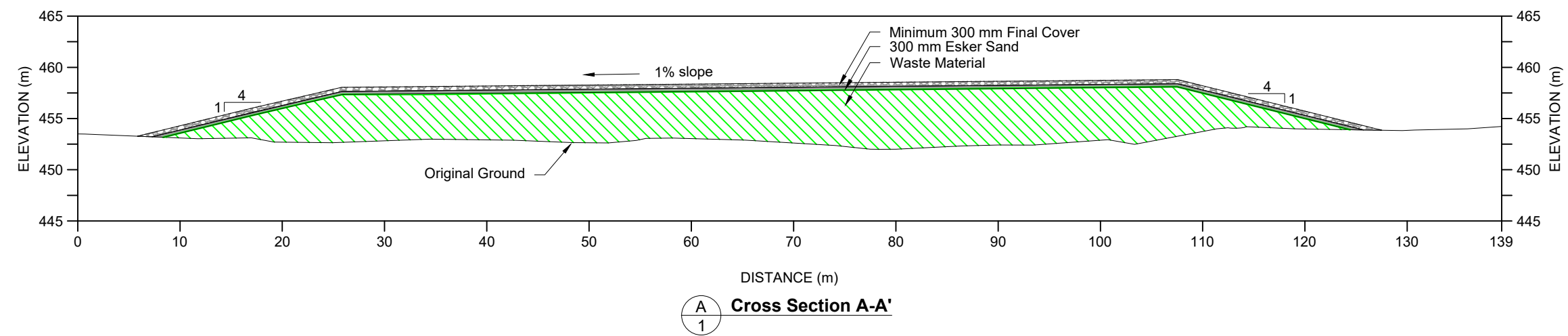
-  Waste Material
-  Esker Sand
-  Final Cover

NOTES

1. All dimensions are in meters unless otherwise noted.
2. All construction to be completed in accordance with the technical specifications in the design memorandum (Ulu Gold Project Non-Hazardous Waste Landfill Design, March 2020, Project No. 1CB041.000).

REFERENCE

1. Coordinate System is WGS84 UTM Zone 12N.
2. Original ground surface is created from historic data contours in drawing ULUTOPO.DWG.



DRAFT
NOT FOR CONSTRUCTION



 SRK JOB NO.: 1CB041.000 FILE NAME: 1CB041.000 Contaminated Landfill.dwg	 Blue Star Gold Corp.	Ulu Gold Project		
		Landfill Sections		
		DATE: March 2020	APPROVED:	FIGURE: 2

P:\01_SITES\UluGold_AutoCAD\1CB041.000_Landfill_Design\1CB041.000 Contaminated Landfill.dwg

Appendix D – KBL Environmental Ulu Mine Equipment Depolluting

November 19, 2021

Blue Star Gold Corp.
507-700 W/ Pender St.
Vancouver V6C 1G8

Attention: Sharleen Hamm, Consulting Project Manager, Blue Star Gold Corp.

21-129NT Ulu Mine Equipment Depolluting

Blue Star Ulu Gold Project – Equipment

Dear Ms. Hamm;

Blue Star Gold Corp. (Blue Star) commissioned KBL Environmental Ltd. (KBL) to depollute various pieces of equipment at the Ulu Gold Project located approximately 200 km southeast of Kugluktuk, Nunavut (the “Site”). The following letter report outlines the work completed by KBL.

1.0 Scope of Work

The objective of the work was to depollute heavy equipment that remained on the Site. KBL completed the following scope of work:

- Identify and verify existing heavy equipment on site with list provided by Blue Star
- Removing batteries, refrigerants and any fluids remaining in equipment
- Flushing all drained lines to remove any residual hazardous materials
- Removing hydraulic cylinders and hoses from equipment where necessary
- Documenting all pieces of equipment identified, inspected, drained and flushed through a systematic approach including keeping a detailed photographic record, note taking and completing an equipment checklist

Blue Star provided KBL with an equipment list. Variances to the list were communicated with Blue Star and are discussed below.

2.0 Regulatory Framework

The Nunavut “End-of-Life Vehicle Hazardous Materials Recovery Program Manual” was referenced for the proper removal, storage, and handling of potentially hazardous materials from end-of-life vehicles. Section 3.4.2 of the manual states that all hazardous fluids must be removed from end-of-life vehicles before safe storage or crushing. As well, to ensure the safe removal of all hazardous items, the battery should be removed first, followed by refrigerants and thirdly fuel. The order of removal thereafter is not significant. Hazardous items must be removed if present include: Battery, Refrigerants, Gasoline or Diesel Fuel, Antifreeze/Coolant, Brake Fluid, Engine Oil, Transmission Fluid, Power Steering Fluid, Differentail Fluid, Windshield Washer Fluid, Ballasts and



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P. O. Box 1895
Yellowknife, NT, X1A 2P4

P 867.873.5263
F 867.669.5555
kblenv.com

capacitors, Mercury Switches and lead. (Dillon, 2011). KBL's equipment checklist was derived from the procedures outlined in the manual.

3.0 Site Methodology

KBL personnel Jack Korycki (Heavy Duty Diesel Mechanic) and Gord Stewart (Waste Technician) completed the equipment depollution from June 25 to July 10, 2021. Liam West (Environmental Technologist) was the Blue Star site representative during this time. KBL identified the following equipment during the execution of the scope of work (Table 1):

- 25 pieces of equipment that required depolluting
 - 21 were depolluted
 - Four require depollution. Accessibility and time issues prevented depollution in 2021.
- Four pieces of equipment could not be found that were listed on Blue Star list
 - 1980 Ford Flat deck
 - Wagner MT-426
 - Wagner ST-7.5Z Scooptram
 - Cat 930 Front End Loader
- One Transformer was identified on-site that was not on the Bluestar equipment list.

The depollution process was completed as follows:

- Identify and remove any remaining batteries or refrigerant
- Identify tanks and lines containing hazardous material fluids in equipment
- Gravity drained fluids into secondary containment (drain pans, berms and pails)
- Complete 2-3 phase flush process
- Consolidate all removed fluids by type into larger containers such as pails, drums and totes
- Transport and dispose of consolidated material to KBL's Yellowknife transfer facility

The majority of the equipment had batteries previously removed, KBL removed any remaining batteries and stored them in a 1m³ poly bin onsite. No refrigerants were encountered within the equipment. The equipment was then drained of any remaining hazardous material fluids, some equipment was stripped to gain access to tanks and lines for fluid removal. Fluids were drained into secondary containment and consolidated into larger containers by fluid type (gas/diesel, antifreeze, engine oil, hydraulic oil, final drive oil, differential/axel oil, transmission oil, power steering fluid and brake fluid).

KBL's flushing process was as follows: the first flush was a hydrocarbon (diesel) solution added and gravity drained; this loosened and broke down any remaining oils/fluids in the system. Second, a degreaser solution was added to the tanks, left overnight and gravity drained in the morning. Lastly a water flush was complete after the degreaser was removed. All flush solutions were consolidated into larger containers for disposal. For the cooling systems, a 2-phase flush was conducted, degreaser and water flush only, unless oil was observed in the system, than a hydrocarbon flush was also completed. Flushing fluids were visually monitored for each system

for discoloration to ensure flushes were cleaning the systems thoroughly. All units were re-sealed to alleviate any residuals leaking.

Photos were taken of each piece of equipment and of the equipment and depolluting process. Additionally, some equipment had videos taken of the depolluting and flushing process. All photos and videos were organized by KBL unit #, other areas photographed are identified by area or type. All photos were organized and shared to Blue Star in its Ulu Reclamation/Equipment Processing_Decommissioning sharepoint folder on September 8, 2021

The total amount of hazardous materials removed from all depolluted equipment was:

- Four batteries, Four lead battery connectors
- Gas/diesel – 1043.5 L
- Antifreeze – 108 L
- Engine Oil – 258 L
- Hydraulic Oil – 685 L
- Final Drive Oil – 165 L
- Differential/Axle Oil – 115 L
- Transmission Oil – 117 L
- Power Steering Fluid – 500 ml
- Brake Fluid – 1 L

Once the hazardous material was removed from the equipment and all phases of flushing complete, KBL personnel reviewed the equipment checklist and procedure with the Blue Star site representative. It was then intended for Blue star to sign off on each piece of equipment when depollution was considered complete. Due to timing of completion of processing on select equipment and shift change, a few checklists are missing Blue Star sign off from field designate however pieces we're documented, photographed and discussed which has been catalogued and shared with Blue Star for future reference as required. The consolidated materials (drained fluids and flush solutions) were transported to KBL's Yellowknife Transfer Facility for proper disposal.

4.0 Conclusions & Recommendations

From June 25 to July 10, 2021, 21 pieces of equipment were depolluted of all hazardous materials, 4 pieces of equipment were identified as incomplete, and 4 pieces of equipment could not be found on site. The 4 incomplete pieces of equipment were Wagner MT-444, the Tamrock HS205M Drill, the Atlas Copco Rocket 322s Drill and the Wagner ST-2D Scooptram. This equipment could not be depolluted due to the inaccessibility of equipment and KBL reaching Blue Star's allotted hours/budget for the project. The equipment that KBL was unable to find was the 1980 Ford Flat Deck, the Wagner MT-426, the Wagner ST-7.5Z Scooptram and the Cat 930 Front End Loader, refer to completed equipment checklists. While on-site, KBL found a Moloney Electric Transformer that was not previously identified, KBL drained all remaining fluids within the transformer (approximately 60L) and flushing was not complete due to unknown PCB content. A sample was taken for PCB analysis and the analytical results were 38 µg/g or ppm; therefore the

transformer oil contains PCB's. The laboratory certificate of analysis is enclosed at the end of this report.

KBL recommends returning to the site to complete the depollution of the four remaining pieces of equipment (KBL unit # 11, 21, 22, and 24). Additionally, debris will need to be removed around the Wagner MT-444 to access all parts for the equipment to be completed depolluted. Lastly, KBL was unable to identify four pieces of equipment on the property. In the event this equipment is located, KBL recommends the equipment be properly depolluted prior to disposal.

All depolluted equipment was verified and signed off by Blue Star and is ready for final disposal, excluding the identified transformer. KBL recommends next step is to complete a swab sample on the transformer carcass to understand PCB impacts and pending results will determine the next step of preparing the carcass for onsite disposal.

If you have any questions, please do not hesitate to contact the undersigned.

Regards,



Melanie Dallow
Senior Environmental Technologist



Jeff Bembridge
General Manager, Operations

Enclosed

Table: Equipment and Fluids Removed Summary

Certificate of Analysis: PCB Sampling Attachment 1: KBL Equipment Checklist

References:

Government of Nunavut (GN). 2011. End-of-Life Vehicle Hazardous Materials Recovery Manual. *Manual for the Preparation and Disposal of End-of-Life Vehicles in Nunavut*. Department of Environment, prepared by Dillon Consulting Limited.

TABLES

COA



Site Location: ULU
Your C.O.C. #: 1 of 1

Attention: Sharleen Hamm

Blue Star Gold Corp.
507-700 W. Pender St
Vancouver, BC
CANADA V6C 1G8

Report Date: 2021/07/14
Report #: R3045330
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C147312

Received: 2021/07/02, 14:52

Sample Matrix: Oil
Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Polychlorinated Biphenyl (PCB) (1)	1	2021/07/10	2021/07/10	CAM SOP-00328	EPA 8082A m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Ontario (From Calgary)

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bureauveritas.com
Phone# (780) 577-7100

=====
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C147312
Report Date: 2021/07/14

Blue Star Gold Corp.
Site Location: ULU

POLYCHLORINATED BIPHENYLS BY GC-ECD (OIL)

BV Labs ID		ABE199		
Sampling Date		2021/07/02		
COC Number		1 of 1		
	UNITS	MOLONY 238871	RDL	QC Batch
Polychlorinated Biphenyls				
Aroclor 1016	ug/g	<1	1	A285633
Aroclor 1221	ug/g	<1	1	A285633
Aroclor 1232	ug/g	<1	1	A285633
Aroclor 1242	ug/g	<1	1	A285633
Aroclor 1248	ug/g	<1	1	A285633
Aroclor 1254	ug/g	<1	1	A285633
Aroclor 1260	ug/g	38	1	A285633
Aroclor 1262	ug/g	<1	1	A285633
Aroclor 1268	ug/g	<1	1	A285633
Total PCB	ug/g	38	2	A285633
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	85		A285633
Decachlorobiphenyl	%	84		A285633
RDL = Reportable Detection Limit				



BUREAU
VERITAS

BV Labs Job #: C147312
Report Date: 2021/07/14

Blue Star Gold Corp.
Site Location: ULU

GENERAL COMMENTS

POLYCHLORINATED BIPHENYLS BY GC-ECD (OIL) Comments

Polychlorinated Biphenyl (PCB): 95% recovery of a 50 ppm SRM of PCB (A1254) in oil indicates a potential low bias of 5% in the reported results.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A285633	LPG	Matrix Spike	2,4,5,6-Tetrachloro-m-xylene	2021/07/10		87	%	30 - 130
			Decachlorobiphenyl	2021/07/10		85	%	30 - 130
			Aroclor 1260	2021/07/10		100	%	75 - 125
			Total PCB	2021/07/10		100	%	75 - 125
A285633	LPG	QC Standard	2,4,5,6-Tetrachloro-m-xylene	2021/07/10		103	%	30 - 130
			Decachlorobiphenyl	2021/07/10		103	%	30 - 130
			Total PCB	2021/07/10		95	%	80 - 120
A285633	LPG	Spiked Blank	2,4,5,6-Tetrachloro-m-xylene	2021/07/10		97	%	30 - 130
			Decachlorobiphenyl	2021/07/10		97	%	30 - 130
			Aroclor 1260	2021/07/10		109	%	75 - 125
			Total PCB	2021/07/10		109	%	75 - 125
A285633	LPG	Method Blank	2,4,5,6-Tetrachloro-m-xylene	2021/07/10		98	%	30 - 130
			Decachlorobiphenyl	2021/07/10		97	%	30 - 130
			Aroclor 1016	2021/07/10	<1		ug/g	
			Aroclor 1221	2021/07/10	<1		ug/g	
			Aroclor 1232	2021/07/10	<1		ug/g	
			Aroclor 1242	2021/07/10	<1		ug/g	
			Aroclor 1248	2021/07/10	<1		ug/g	
			Aroclor 1254	2021/07/10	<1		ug/g	
			Aroclor 1260	2021/07/10	<1		ug/g	
			Aroclor 1262	2021/07/10	<1		ug/g	
			Aroclor 1268	2021/07/10	<1		ug/g	
Total PCB	2021/07/10	<2		ug/g				

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



BUREAU
VERITAS

BV Labs Job #: C147312
Report Date: 2021/07/14

Blue Star Gold Corp.
Site Location: ULU

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "A. Hamanov", written over a horizontal line.

Anastassia Hamanov, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

0010



eCOC Offline Template: Reclamation - Haz Waste

This is not intended to be a paper COC. To complete your submission, please upload this file in the jobs section of the Customer Portal. Please use the Customer Portal for Composite Samples and / or Shelf-life submissions.

BUREAU VERITAS

INVOICE TO	
Company Name	Blue Star Gold Corp.
Invoice Attention	Sharleen Hamm
Phone	
Email	sharleen.hamm@bluestargold.ca
Address	507-700 W. Pender St
Address 2	
City	Vancouver
Province	BC
Postal Code	V6C 1G8
Country	CANADA

REPORT TO	
Company Name	Blue Star Gold Corp.
Attention To:	Sharleen Hamm
Phone	
Email	sharleen.hamm@bluestargold.ca
Address	507-700 W. Pender St
Address 2	
City	Vancouver
Province	BC
Postal Code	V6C 1G8
Country	CANADA

02-Jul-21 14:52
 Customer Solutions

 C147312
 DKR INS-0157

PROJECT INFORMATION	
Submission Type	Environmental, General
PO/AFE #	
Project #	
Site Location	Ulu
Site #	
Task Order	
Line Item	
Cost Object	

ALSO SEND REPORT TO (one email per box)	
enviro@bluestargold.ca	jbembridge@kblenv.com

SELECT CRITERIA 1	
CRITERIA 1	Select
Included on CofA?	No

SELECT CRITERIA 2	
CRITERIA 2	Select
Included on CofA?	No

COMMENTS	
PCB in oil.	Sample I.D. Moloney Serial # 238871

Received in Yellowknife
 By: J. Mercant
 @ 14:52
 JUL 02 2021

Temp: 23 / 24 / 23

J. H. K. W. S. B. J.
 2021/07/05
 101-20
 05-70
 18501

EQUIPMENT CHECKLIST

Equipment Checklist

Technician Name: <u>Good/Jack</u>	DATE <u>June 26</u>
Equipment Manufacturer/Model: <u>Ford 800 Boom truck (KBL01)</u>	Unit Number: <u>KBL01</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	Y	1		REMOVED
2 Refrigerants	NA			
3 Gas/Diesel	Y	120L	Y	
4 Antifreeze/Coolant	Y	10L	Y	
5 Engine Oil	Y	25L	Y	
6 Hydraulic Oil(s)	Y	60L	Y	
7 Final Drive Oil(s)	NA	10L	Y	
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	Y	2L	Y	
10 Transmission Oil(s)	Y	2L	Y	
11 Power Steering Fluid	Y	500ML	Y	
12 Brake Fluid	N/A			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			
19. Other: <u>Air Tank</u>	Y		Y	Had OILY WATER
20. Other: <u>Hoses on Picker</u>	Y	12		
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
	DRAINED ALL Tanks & lines DID a WFL FLUSH after DRAINED Then Made a Degreaser mix for the night in ALL Tanks & lines, Diff's Then Flushed with WATER	
	TOOK Picker apart & off truck capped it Took all the hoses	
	4 Pails WATER 3 Pails Degreaser MIX	

<u>LU</u> COMPLETED BY (Signature)	<u>[Signature]</u> Supervisor (Name)	<u>[Signature]</u> Signature
---------------------------------------	---	---------------------------------



Equipment Checklist

Technician Name: <u>Good/Jack</u>	DATE <u>June 26</u>
Equipment Manufacturer/Model: <u>MAER FUEL TRUCK (KBL02)</u>	Unit Number: <u>KBL02</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	NA			
2 Refrigerants	NA			
3 Gas/Diesel	N		Y	MT Filter
4 Antifreeze/Coolant	Y	15L	Y	
5 Engine Oil	Y		Y	MT
6 Hydraulic Oil(s)	N			
7 Final Drive Oil(s)	NA		Y	
8 Gear Oil(s)	No			
9 Differential/Axle Oil(s)	Y	3L	Y	
10 Transmission Oil(s)	NA		Y	
11 Power Steering Fluid	NA			MT
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			BRASS
19. Other:				
20. Other:				
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
	WFL Flush after DRAINED all tanks & lines Then Put Degreaser MIX in tanks for the night Flushed With WATER till clean:	
	2 Pails Degreaser 3 Pails WATER	

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Equipment Checklist

Technician Name: <u>Gord / Jack</u>	DATE: <u>June 26</u>
Equipment Manufacturer/Model: <u>WAGNER ST-3.5 Scooptram KBL04</u>	Unit Number: <u>KBL04</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	Y	3		
2 Refrigerants	NA			
3 Gas/Diesel	Y	200L		
4 Antifreeze/Coolant	Y	10L		
5 Engine Oil	Y	15L	Y	
6 Hydraulic Oil(s)	Y	160L	Y	Tank WAS full
7 Final Drive Oil(s)	Y	300 40L	Y	300
8 Gear Oil(s)	N			
9 Differential/Axle Oil(s)	Y	30L	Y	
10 Transmission Oil(s)	Y	60L	Y	
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	N			BRASS
19. Other: HOSES				
20. Other: <u>HYDROLIC HOSES</u>	Y			
21. Other: <u>HYDROLIC cylinders</u>				
22. Other:				

Item No.	Additional Comments	Initial
	<p>DRAINED ALL Tanks lines, & D.O.F, DRIVES Flushed with WFL & had a mix of Degreaser mix sit for the night then Flushed till - Clean with WATER, Ripped DRIVE shafts out so Equipment can move easier to spot to work on</p>	

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Equipment Checklist

Technician Name: <u>Gard/Jack</u>	DATE: <u>June 27</u>
Equipment Manufacturer/Model: <u>Gen 600KW CAT</u>	Unit Number: <u>Gen 600KW CAT</u>

KBL 06

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	NA			
2 Refrigerants	NA			
3 Gas/Diesel	Y	500ML		
4 Antifreeze/Coolant	Y	10L		
5 Engine Oil	Y	45L		
6 Hydraulic Oil(s)	NA			
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	NA			
10 Transmission Oil(s)	NA			
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			
19. Other:				
20. Other: <u>Hoses</u>	Y	2		
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
	<u>DRAINED ALL Tank & lines Did A WFL Flush Then made a Degreaser mix & had it sit for night, then flushed all liquids out</u>	
	<u>Hoses had liquid in them From Draining</u>	

		
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Equipment Checklist

Technician Name: <u>Bard Jack</u>	DATE <u>June 27</u>
Equipment Manufacturer/Model: <u>Gen 600KW CAT</u>	Unit Number: <u>KBLOS</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	NA			
2 Refrigerants	NA			
3 Gas/Diesel	Y	1L <u>1L</u>		Filter on wall had 1L
4 Antifreeze/Coolant	Y	<u>10L</u>	Y	
5 Engine Oil	Y	200L <u>30L</u>	Y	
6 Hydraulic Oil(s)	NA			
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	NA			
10 Transmission Oil(s)	NA			
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			
19. Other:				
20. Other:				
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
	WE DRAINED ALL TANKS & lines CHECKED VALVES Then FILLED TANKS WITH A Degreaser MIX & Let Sit over over night Flushed RAD & WATER Heater lines lines, Then Flushed out Degreaser & WATER Till Clean	
	DID WFL WASH Before Degreaser	
	(1 Paul MIX Solvent 2 2 Paul WATER)	


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Equipment Checklist

Technician Name: <u>Good/Jack</u>	DATE: <u>June 27</u>
Equipment Manufacturer/Model: <u>COMPRESSOR 600 CFM</u>	Unit Number: <u>KBL08</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/N/A)	Comments
1 Lead Acid Batterie(s)	NA			
2 Refrigerants	NA			
3 Gas/Diesel	NA			
4 Antifreeze/Coolant	NA		Y	ALREADY BEEN DRAINED
5 Engine Oil	NA		Y	" "
6 Hydraulic Oil(s)	NA			
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	NA			
10 Transmission Oil(s)	NA			
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			
19. Other:				
20. Other: <u>Hydraulic Hoses</u>		<u>4</u>		
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
	WE CHECK ALL DRAINS ALL MT	
	good To Go	
	Flushed With WFL Before Degreaser mix	
	FLUSHED TANKS TO MAKE SURE ITS CLEARED	
	1 Pail Solvent 2 Pail WATER	
	Hoses had liquid from DRAINING TANKS FROM	
	Previous guys that MT Equipment	

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Equipment Checklist

Technician Name: <u>Gord/Jack</u>	DATE <u>June 27</u>
Equipment Manufacturer/Model: <u>Gen 250KW Detroit</u>	Unit Number: <u>KBL07</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	NA			
2 Refrigerants	NA			
3 Gas/Diesel	NA			
4 Antifreeze/Coolant	Y NA	3L	Y	NA NA
5 Engine Oil	Y	5L	Y	
6 Hydraulic Oil(s)	NA			
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	NA			
10 Transmission Oil(s)	NA			
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			
19. Other: <u>Hoses</u>		2		
20. Other:				
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
	<u>CLEAN</u>	
	<u>WE Did A Flush With WFL after DRAINING Tanks, Then WE Put a mix of Degreaser & WATER in Tanks LET SET for the night Next Day DRAIN & FLUSHED WITH WATER</u>	
	<u>(1 Pail of solvent & 2 Pail of WATER Put in Total) after it was used to clean</u>	

		
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Equipment Checklist

Technician Name: <u>Gord Jack</u>	DATE: <u>June 27</u>
Equipment Manufacturer/Model: <u>Gen 500KW Cummings</u>	Unit Number: <u>KBL 09</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	NA			ALREADY REMOVED
2 Refrigerants	NA			
3 Gas/Diesel	N			TANK WAS MT & VENTED
4 Antifreeze/Coolant	Y	20L	Y	
5 Engine Oil	Y	60L	Y	OIL TANK ON WALL WAS FULL
6 Hydraulic Oil(s)	NA			
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	NA			
10 Transmission Oil(s)	NA			
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	2Y	2		
19. Other:				
20. Other:				
21. Other: <u>Hoses</u>				
22. Other:				

Item No.	Additional Comments	Initial
	DRAINED ALL TANKS & lines, FLUSHED OUT RAD'S WATER HEATER lines, Put a mix of Degreaser & WATER in tanks for the night then Flushed out with WATER	
	WFL Flushed Before Degreaser mix	
	TOOK Hoses used to DRAIN Equipment	

		
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Equipment Checklist

Technician Name: <u>Gord/Jack</u>	DATE: <u>June 27</u>
Equipment Manufacturer/Model: <u>Gen 500KW Cummings</u>	Unit Number: <u>KBL10</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	N			ALREADY REMOVED
2 Refrigerants	NA			
3 Gas/Diesel	N			TANK WAS MT & VENTED
4 Antifreeze/Coolant	Y	10L	Y	
5 Engine Oil	Y	10L	Y	TANK ON WALL WAS MT
6 Hydraulic Oil(s)	NA			
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	NA			
10 Transmission Oil(s)	NA			
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	Y	2		
19. Other: <u>Hoses</u>				
20. Other:				
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
	DRAIN ALL TANK till Nothing came out	
	Then put Degreaser mix in tanks for the night Then Flushed out with WATER	
	Before Degreaser mix it WAS Flushed With WFL	
	Took Hoses that had liquid in them	

		
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Equipment Checklist

Technician Name: <u>Cord/Jack</u>	DATE <u>June 27</u>
Equipment Manufacturer/Model: <u>MT444</u>	Unit Number: <u>KBL 11</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)				
2 Refrigerants				
3 Gas/Diesel	<u>Y</u>	<u>600L</u>		
4 Antifreeze/Coolant				
5 Engine Oil				
6 Hydraulic Oil(s)	<u>Y</u>	<u>300L</u>		
7 Final Drive Oil(s)	<u>Y</u>	<u>80L</u>		
8 Gear Oil(s)				
9 Differential/Axle Oil(s)				
10 Transmission Oil(s)				
11 Power Steering Fluid				
12 Brake Fluid				
13 Windshield Washer Fluid				
14 Ballasts/Capacitors				
15 Mercury Switches				
16 Lead (Batt Connectors/wheel weights)				
19. Other:				
20. Other:				
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial

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Equipment Checklist

Technician Name: <u>Gord / Jack</u>	DATE: <u>June 28</u>
Equipment Manufacturer/Model: <u>CAT 824C Bulldozer</u>	Unit Number: <u>KBL 12</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	N			ALREADY REMOVED
2 Refrigerants	NA			
3 Gas/Diesel	Y	2L		
4 Antifreeze/Coolant	N	0	Y	WAS MT
5 Engine Oil	Y	3L	Y	
6 Hydraulic Oil(s) Tank	Y	25L	Y	
7 Final Drive Oil(s)	Y	20L 35L	Y	Y
8 Gear Oil(s)	Y NA			
9 Differential/Axle Oil(s)	Y	20L	Y	
10 Transmission Oil(s)	Y	2.5L	Y	
11 Power Steering Fluid	NA			
12 Brake Fluid	Y NA	500ML	Y	
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			
19. Other: <u>HYDRAULIC cylinders</u>	Y	(5) 20L 40L	Y	
20. Other: <u>HYDRAULIC HOSES</u>	Y			Put in tote
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
7	DRAINED & POLLED DRIVES SO Equipment can Move to SPOT WE NEED	
	<i>Diff, Drives</i>	
	DRAINED ALL tanks, Flushed all tank' With WFL	
	Then Filled all tanks With Degreaser an let Sit Over Night, Then Flushed all Tanks diff's DRIVES	
	6 Pails of (mix) Degreaser & WATER	
	8 Pails of WATER	

Jack made caps to Finsheit off

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Equipment Checklist

Technician Name: Gord / Jack	DATE June 30
Equipment Manufacturer/Model: Gen Cummins	Unit Number: KBL13

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	N			ALREADY REMOVED
2 Refrigerants	NA			
3 Gas/Diesel	NA			
4 Antifreeze/Coolant	Y	20L	Y	
5 Engine Oil	Y	20L	Y	
6 Hydraulic Oil(s)	NA			
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	NA			
10 Transmission Oil(s)	NA			
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	N			BRASS
19. Other:				
20. Other:				
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
	DRAINED N Flushed Tanks 3 WATER cooler lines WFL WFL Flush 3 Degreaser mix with WATER WAS PUT in tanks for the night	


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Equipment Checklist

Technician Name: <u>Gord/Jack</u>	DATE <u>July 2</u>
Equipment Manufacturer/Model: <u>RED Storage CUBES</u>	Unit Number: <u>Red cubes (6)</u>

/ KBL 14,15,16,17,18,19

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)				
2 Refrigerants				
3 Gas/Diesel				
4 Antifreeze/Coolant				
5 Engine Oil	<u>N</u>		<u>Y</u>	<u>They were all MT</u>
6 Hydraulic Oil(s)				
7 Final Drive Oil(s)				
8 Gear Oil(s)				
9 Differential/Axle Oil(s)				
10 Transmission Oil(s)				
11 Power Steering Fluid				
12 Brake Fluid				
13 Windshield Washer Fluid				
14 Ballasts/Capacitors				
15 Mercury Switches				
16 Lead (Batt Connectors/wheel weights)				
19. Other:				
20. Other:				
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
<u>1</u>	<u>Flushed with Degreaser KBL 14</u>	
<u>2</u>	<u>Flushed with Degreaser KBL 15</u>	
<u>3</u>	<u>Flushed with Degreaser KBL 16</u>	
<u>4</u>	<u>Flushed with Degreaser KBL 17</u>	
<u>5</u>	<u>Flushed with Degreaser KBL 18</u>	
<u>6</u>	<u>Flushed with Degreaser KBL 19</u>	

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Equipment Checklist

Technician Name: Gord/Jack	DATE: July 4
Equipment Manufacturer/Model: TANROCK H-102 MICRO DRILL	Unit Number: KBL20

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	NA			
2 Refrigerants	NA			
3 Gas/Diesel	Y	60L	Y	
4 Antifreeze/Coolant	NA			Air cooled
5 Engine Oil	Y	20L	Y	
6 Hydraulic Oil(s)	Y	60L	Y	
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	NA			HYDRAULIC DRIVEN
10 Transmission Oil(s)	NA			
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			
19. Other: Hoses	Y	ALL		Full Tote
20. Other: Hydraulic cylinders	Y	ALL		
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
19	ALL HOSES WERE REMOVED	
20	ALL CYLINDERS WERE REMOVED	
	the 4 Days on this all hoses were taken off HAD to cut up Equipment to get it all out cut off Boom after cylinders & lines taken off FLUSHED ALL Tanks & lines with WFL & A Degreaser mix for the night	

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Equipment Checklist

Technician Name: Gord / Jack	DATE: July 6
Equipment Manufacturer/Model: GetMon A-64 Scissor lift	Unit Number: KBL 23

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/NA)	Comments
1 Lead Acid Batterie(s)	NA			
2 Refrigerants	NA			
3 Gas/Diesel	Y	60L	Y	Removed
4 Antifreeze/Coolant	NA			AIR COOLED
5 Engine Oil	Y	25L	Y	
6 Hydraulic Oil(s)	Y	40L	Y	FLUSHED & REMOVED
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	Y	40L	Y	Removed Both Diffs
10 Transmission Oil(s)	Y	20L	Y	
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			
19. Other: Hoses	Y	ALL		
20. Other: Cylinders	Y	ALL		
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
	HAD the lift Tipped on side for Safer access Then cut the Deck off with torch then removed all Hoses From Deck then cut off Engine D&D A Flush, Then cut off Diffs set them on Flat ground, DRAINED & FLUSHED, Remove all Cylinders, Put Degreaser MIX in Trans & Diffs, Engine for night	

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Supervisor (Name)	Signature
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Equipment Checklist

Technician Name: <u>Gordon / Jack</u>	DATE <u>July 3</u>
Equipment Manufacturer/Model: <u>CAT WATER Truck</u>	Unit Number: <u>KB003</u>

Removal Checklist	Y/N/NA	~ Volume (L) / Quantity	Flushed (Y/N/N/A)	Comments
1 Lead Acid Batterie(s)	NA			
2 Refrigerants	NA			
3 Gas/Diesel	NA			
4 Antifreeze/Coolant	Y		Y	Lines RATS out
5 Engine Oil	N		Y	OIL Pan has A Big hole Flushed
6 Hydraulic Oil(s)	Y	40L	Y	
7 Final Drive Oil(s)	NA			
8 Gear Oil(s)	NA			
9 Differential/Axle Oil(s)	Y	20L	Y	
10 Transmission Oil(s)	Y	10	Y	
11 Power Steering Fluid	NA			
12 Brake Fluid	NA			
13 Windshield Washer Fluid	NA			
14 Ballasts/Capacitors	NA			
15 Mercury Switches	NA			
16 Lead (Batt Connectors/wheel weights)	NA			BRASS
19. Other: <u>AIR TANK</u>	Y	10L	Y	OILY WATER
20. Other:				
21. Other:				
22. Other:				

Item No.	Additional Comments	Initial
5	OIL Pan has A Big hole I Flushed it into funnel	
	DRAINED Diff & Tanks Flushed With WFL Then made a mix of Degreaser than had in for the night Flushed till clean	
19	Air tank WAS full of OILY WATER Flushed with WFL & Degreaser	

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Supervisor (Name)	Signature
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