



REHABILITATION NOTES

1. THE AREA OF EXTRACTION TO BE REHABILITATED IS 5.77 HECTARES. AN ADDITIONAL AREA OF APPROXIMATELY 0.75 HA BEYOND THE AREA OF EXTRACTION WILL BE REFORESTED.
2. THE SOUTHERN PORTION OF THE EXTRACTION AREA IS TO BE REHABILITATED FOR FUTURE PASSIVE RECREATIONAL USE, INCLUDING A POTENTIAL CAMPGROUND, AND THE NORTHERN PORTION OF THE EXTRACTION AREA IS TO BE REFORESTED TO CREATE A WILDLIFE CORRIDOR, AS SHOWN ON THIS PLAN. THE REFORESTED AREA SHALL EXTEND A MINIMUM OF 200 m SOUTH FROM THE NORTH PROPERTY BOUNDARY.
3. AREAS TO BE REFORESTED SHALL BE PLANTED WITH SUITABLE NATIVE FLORA THAT INCORPORATE SON TRADITIONAL FLORA. AS DETAILED IN APPENDIX A OF THE NATURAL ENVIRONMENT TECHNICAL REPORT (SAAR ENVIRONMENTAL LIMITED, DECEMBER 2021), TREE AND SHRUB SPECIES FOR CONSIDERATION ARE: RED-OSIER DOGWOOD, PINCHERRY, IRONWOOD, WHITE CEDAR, BASSWOOD, WHITE ELM, AND TREMBLING ASPEN. CEDAR IS INTENDED FOR PLACEMENT IN THE WET MEADOW MARGINS WITH TREMBLING ASPEN STARTER CROPS.
4. IN ACCORDANCE WITH THE RECOMMENDED MITIGATION MEASURES IN THE NETR (SAAR ENVIRONMENTAL, 2021), ENHANCED PLANTINGS SHALL BE MADE ALONG THE SOUTHERN PERIMETER OF THE WETLAND MEADOW, ADJACENT TO THE DUSOUT POND, IN THE NORTHWEST PORTION OF THE SITE, AND ALSO ALONG THE MARGIN OF THE WETLAND LOCATED EAST OF THE EXTRACTION AREA TO BOLSTER THE FOREST EDGE, AS SHOWN APPROXIMATELY ON THIS PLAN.
5. RECOMMENDED PLANT SPECIES (NETR, SAAR 2021) FOR ENHANCED PLANTINGS ALONG THE MARGIN OF THE WETLAND MEADOW IN THE NORTHWEST PORTION OF THE SITE ARE SMOOTH SAWGRASS, COMMON RUSH, POVERTY OAT GRASS, SWAMP GOLDENROD, JOE-PYE-WEED, UPLAND WHITE ASTER, ASTER NOVA-ANGIAE, HAREBELL, YARROW, SWAMP MILKWEED, PANGLED BULRUSH, AND GREEN BULRUSH. SEEDS SHALL BE BROADCAST IN THE WET MEADOW AREA AND AROUND THE POND. THE SEED MIX WILL ESTABLISH OVER TIME AND BOLSTER THE SUPPORT OF BIRDS AND INSECTS INCLUDING THE OBSERVED SPECIAL CONCERN MONARCH BUTTERFLY. ENHANCED PLANTINGS IN THE NORTHWEST PORTION OF THE SITE WILL OCCUR FOLLOWING ENHANCED PLANTINGS ALONG THE MARGIN OF THE EAST WETLAND.
6. RECOMMENDED SHRUB AND TREE SPECIES (NETR, SAAR 2021) TO BOLSTER THE FOREST EDGE EAST OF THE EXTRACTION AREA ARE THE SAME AS THE SPECIES FOR THE REFORESTED AREA IDENTIFIED IN NOTE 3. ENHANCED PLANTINGS ALONG THE MARGIN OF THE EAST WETLAND WILL PROCEED IN A NORTHERLY DIRECTION IN CONJUNCTION WITH THE PLANNED EXTRACTION, IN A PROGRESSIVE REHABILITATION MANNER.
7. THE IDENTIFIED AREA TO BE REHABILITATED FOR FUTURE PASSIVE RECREATION SHALL BE PLANTED WITH A SUITABLE MIXTURE OF NATIVE GRASS AND FORB SPECIES THAT AVOIDS INVASIVE SPECIES.
8. REHABILITATION WILL BE PROGRESSIVE AND WILL PROCEED AS THE LIMITS OF EXTRACTION ARE REACHED. THE SEQUENCE OF REHABILITATION WILL GENERALLY PROCEED FROM SOUTH TO NORTH FOLLOWING THE DIRECTION OF EXTRACTION SHOWN ON DRAWING 2. THE HAUL ROUTE LOCATED WITHIN THE EXTRACTION AREA WILL BE MAINTAINED UNTIL EXTRACTION AT THE NORTH END OF THE SITE IS COMPLETE AND THE SLOPE AT THE NORTH END OF THE SITE HAS BEEN FULLY REHABILITATED. THE HAUL ROUTE WILL THEN BE REHABILITATED IN A NORTH TO SOUTH DIRECTION TO THE LIMIT OF THE REFORESTED AREA. THE HAUL ROUTE WITHIN THE FUTURE PASSIVE RECREATION AREA WILL REMAIN TO PROVIDE ACCESS.
9. SLOPES AT THE NORTH AND SOUTH ENDS OF THE SITE SHALL BE REHABILITATED AS THE LIMITS OF EXTRACTION ARE REACHED AND SHALL BE NO STEEPER THAN 3:1. SLOPES SHALL BE CREATED BY BACKFILLING WITH ON-SITE OVERBURDEN. IT IS ANTICIPATED THAT SUFFICIENT OVERBURDEN WILL BE AVAILABLE ON SITE TO CONSTRUCT THE SLOPES.
10. OVERBURDEN STRIPPED FROM THE AREA OF EXTRACTION SHALL BE PLACED AND GRADED ON THE PIT FLOOR PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL EXCAVATED FROM THE SITE SHALL BE UNIFORMLY SPREADGRADED ON THE PIT FLOOR AND COMPLETED SLOPES WITH A MINIMUM THICKNESS OF 0.15 m. ALL OF THE EXISTING TOPSOIL ON THE SITE WILL BE AVAILABLE FOR USE IN REHABILITATION OF THE SITE. TOPSOIL MAY BE IMPORTED TO CREATE A FINAL COVER UP TO 0.3 m THICK TO FACILITATE REHABILITATION (SEE NOTE 12). SLOPED AREAS SHALL BE IMMEDIATELY STABILIZED WITH A SUITABLE GROUND COVER AND THEN REFORESTED THE FOLLOWING SPRING.
11. REHABILITATION OPERATIONS SUCH AS STRIPPING AND EARTH MOVING SHALL TAKE PLACE ONLY WHEN THE SOIL IS DRY TO REDUCE COMPACTING OF THE SOIL.
12. CLEAN INERT FILL CONSISTING OF TOPSOIL FROM LOCAL AGRICULTURAL SITES MAY BE IMPORTED TO FACILITATE PIT REHABILITATION. ONLY SUFFICIENT MATERIAL TO CREATE A FINAL COVER UP TO 0.3 m THICK MAY BE IMPORTED. THE VOLUME OF IMPORTED TOPSOIL SHALL NOT EXCEED 8,700 CUBIC METRES. THE LICENSEE MUST ENSURE THAT THE MATERIAL IS TESTED AT THE SOURCE IN ACCORDANCE WITH O.REG. 406/19 FOR EXCESS SOIL MANAGEMENT BEFORE IT IS DEPOSITED ON THE SITE. THE TESTING MUST CONFIRM THAT THE MATERIAL MEETS THE MECP TABLE 1 STANDARDS AS SET OUT IN THE MECP "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT". TESTING RESULTS FOR IMPORTED MATERIALS SHALL BE RETAINED AND PROVIDED TO THE MECP AND/OR MNRF UPON REQUEST.
13. FINAL SURFACE DRAINAGE WILL FOLLOW THE REHABILITATED CONTOURS AS SHOWN AND WILL BE MANAGED BY INFILTRATION INTO THE UNDERLYING PERMEABLE GRANULAR SOILS THAT WILL REMAIN IN PLACE AFTER EXTRACTION OF THE GRANULAR MATERIAL MORE THAN 1.5 m ABOVE THE HIGH WATER TABLE IS COMPLETED.
14. REHABILITATED AREAS ARE TO BE RE-GRADED AND RESEED/REPLANTED IN THE EVENT OF WASHOUTS.
15. ANY VEGETATION OR TREES THAT DIE OR ARE OTHERWISE DAMAGED SHALL BE RESEED OR REPLANTED.
16. THERE SHALL BE NO BUILDINGS ON SITE UPON COMPLETION OF REHABILITATION.
17. THE EXISTING LANE THAT EXTENDS ALONG THE WEST SIDE OF THE SITE, WEST OF THE EXTRACTION AREA, WILL REMAIN TO PROVIDE ACCESS TO THE NORTH END OF THE PROPERTY. THE DRIVEWAY TO THE SITE FROM SOUTHGATE ROAD 04 WILL BE MAINTAINED TO PROVIDE ACCESS TO THE CULTIVATED FIELD LOCATED SOUTHWEST OF THE LICENSED AREA AND TO THE PASSIVE RECREATION AREA.

TECHNICAL RECOMMENDATIONS

NATURAL ENVIRONMENT

SOURCE: HOGS BACK ABOVE WATER PIT APPLICATION, LOT 31, CONCESSION 3, TOWNSHIP OF SOUTHGATE, COUNTY OF GREY (SAAR ENVIRONMENTAL LIMITED, DECEMBER 2021)

SPECIFICATIONS

E1. PLANTING SPECIFICATIONS:

- E1.1 ONLY LOCAL NATIVE PLANTS SHALL BE USED, WITH NO INVASIVE SPECIES. A SUITABLE SPECIES LIST CAN BE OBTAINED FROM THE SAUGEEN VALLEY CONSERVATION AUTHORITY (SVCA) TO USE AS A GUIDE IF SUBSTITUTIONS ARE REQUIRED FOR THE APPROVED PLANT STOCK LISTS.
- E1.2 TO MIMIC NATURE AND ACHIEVE MAXIMUM WILDLIFE VALUE, PLANTING SHALL BE IN CLUSTERS AND NOT STRAIGHT LINES.
- E1.3 SIGNIFICANT DIE-BACK OR DAMAGE TO PLANTINGS (I.E. 20% OR MORE) WITHIN TWO YEARS OF PLANTING SHALL BE REPLACED BY THE OWNER.

E2. SEED SOURCE:

NATIVE SEED COLLECTED IN THE LOCAL ECO-DISTRICT AND/OR PROPAGATED BY LOCAL NURSERIES SHALL BE USED. SOME SUITABLE TREE AND SHRUB SPECIES MAY BE AVAILABLE AT ANNUAL SALES BY THE SVCA.

E3. INVASIVE SPECIES CONTROL:

INSTALLATION OF ORNAMENTAL PLANTS AT THE PROPOSED CAMPGROUND SHALL BE RESTRICTED. INCREASES IN THE INVASIVE SPECIES ALREADY PRESENT SHALL BE LIMITED BY USING AGGREGATE FROM THE SITE WHEREVER POSSIBLE FOR FUTURE USES. USE OF IMPORTED FILL MATERIAL, AND IN PARTICULAR FILL MATERIAL FROM OUTSIDE THE LOCAL ECO-DISTRICT, SHALL BE AVOIDED. INVASIVE PLANT SPECIES ENCOUNTERED WHILE PLANTING NATIVE SPECIES SHALL BE REMOVED.

E4. MONITORING:

THE OWNER SHALL ACCEPT SITE INSPECTION AUDITS BY REPRESENTATIVES OF SAAR, THE SVCA, AND/OR THE LOCAL MUNICIPALITY FOR UP TO TWO GROWING SEASONS AFTER INITIAL PLANTING TO ASSESS PLANTING SUCCESS AND TO DETERMINE IF REPLACEMENT STOCK IS REQUIRED IN ANY AREAS.

LEGEND

- LICENCE BOUNDARY
- - - PROPERTY OWNED BY APPLICANT
- - - PROPERTY LINE
- - - LOT/CONCESSION LINE
- EXISTING CONTOURS (m AMSL)
- x-x- EXISTING FENCE (P&W)
- EXISTING TREE LINE
- TREE
- ACCESS ROAD
- WETLAND LIMITS (FROM NETR, SAAR 2021)
- POND FEATURE
- WATERCOURSE
- DIRECTION OF SURFACE DRAINAGE
- CROSS-SECTION LOCATION
- LIMIT OF EXTRACTION
- PROPOSED PIT BOTTOM ELEVATION
- REFORESTED AREA
- ENHANCED PLANTINGS
- FUTURE PASSIVE RECREATION

DD/MM/YY	DESCRIPTION
	AMENDMENT
THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS 'A' LICENCE FOR A PIT ABOVE THE GROUNDWATER TABLE.	
THIS PLAN WAS PREPARED UNDER THE DIRECTION OF A QUALIFIED PERSON AS PER SECTION 0.2(3) OF O.REG. 466/20 UNDER THE AGGREGATE RESOURCES ACT.	
ROSS SLAUGHTER, P.ENG.	
FEB. 18, 2022 DATE	
Unit 104D 1010 9th Avenue West, Owen Sound, ON, N4K 5R7 Telephone: (519) 372-4828	
Title: SECTIONS AND REHABILITATION PLAN DRAWING 3 OF 3 HOGS BACK PIT PART OF LOT 31, CONCESSION 3 GEOGRAPHIC TOWNSHIP OF PROTON TOWNSHIP OF SOUTHGATE COUNTY OF GREY	
Applicant: H. BYE CONSTRUCTION LTD. 395 CHURCH STREET MOUNT FOREST, ON N0G 2L2	
RANDY BYE, PRESIDENT DATE	
Design: WBB Drawn: TDL Reviewed: MRS Date: FEB. 2022	Scale: 1:2000
Reference No. 19-047-03	