

EXISTING FEATURES NOTES

SITE DESCRIPTION:

1. THE USE OF LAND ON AND WITHIN 120 METRES OF THE SITE, SUCH AS LAND USES AND LAND DESIGNATIONS ARE SHOWN ON THE PLAN. THERE IS AN EXISTING PIT NORTH OF THE SITE (LICENCE NO. 3560) KNOWN AS THE LEWIS PIT. THE SITE WILL BE AN EXPANSION TO THE LEWIS PIT.
2. THE EAST PORTION OF THE SITE IS ZONED 'ZONE A' (AGRICULTURAL) AND THE WEST PORTION OF THE SITE IS ZONED 'WD-1-WASTE DISPOSAL ASSESSMENT ZONE'.
3. THE CURRENT LAND USE ON THE SITE INCLUDES FOREST AND FORESTRY. AFTER THE AGGREGATE RESOURCE HAS BEEN EXTRACTED, REHABILITATION OF THE PIT WILL PROVIDE FOR A FOREST AND OPEN FIELD MEADOWS. REFER TO SHEET 3 OF 4 FOR REHABILITATION PLANS.
4. THE AREA TO BE LICENSED IS APPROXIMATELY 21.1 HECTARES.
5. THE AREA TO BE EXCAVATED IS APPROXIMATELY 17.5 HECTARES.
6. THE LOCATION OF ALL EXISTING ENTRANCE(S) TO AND EXIT(S) FROM THE SITE ARE SHOWN ON THE PLAN.
7. THE LOCATION AND TYPE OF EXISTING FENCES ON THE SITE ARE SHOWN ON THE PLAN.
8. ALL BUILDINGS ON AND WITHIN 120m OF THE SITE ARE IDENTIFIED ON THE PLAN. THERE IS A SMALL METAL CLAD PUMP HOUSE CONSTRUCTED ON THE NORTH SITE BOUNDARY THAT IS AFFILIATED WITH A WELL DRILLED ON THE SITE (TW2-19) WHICH SUPPLIES WATER FOR DUST SUPPRESSION TO THE EXISTING PIT (LICENCE NO.3560). THERE IS ALSO A 12m STORAGE CONTAINER LOCATED IN THE SOUTHWEST CORNER OF THE SITE PLUS AFFILIATED PIECES OF FARM EQUIPMENT ON DISPLAY FOR RE-SALE.
9. SIGNIFICANT HUMAN-MADE FEATURES ON AND WITHIN 120 METRES OF THE SITE ARE SHOWN ON THE PLAN.
10. SIGNIFICANT WILDLIFE HABITAT AND SIGNIFICANT WOODLANDS ARE SHOWN ON THE PLAN AND DETAILED IN THE NATURAL ENVIRONMENT REPORT.
11. WELL LOCATIONS ON AND WITHIN 120m OF THE SITE ARE SHOWN ON THE PLAN.
12. THERE ARE NO SCRAP AREAS ON THE SITE. THERE IS NO EXISTING FUEL STORAGE ON THE SITE. THERE ARE NO EXISTING STOCKPILES OF TOPSOIL, OVERBURDEN, OR AGGREGATE LOCATED ON THE SITE. THERE ARE NO EXISTING BERMS ON THE SITE. THERE ARE NO EXISTING RECYCLABLE MATERIALS ON THE SITE. THERE ARE NO EXISTING PROCESSING AREAS ON THE SITE.
13. THE TOPOGRAPHY OF THE SITE IS SHOWN ON THE PLAN USING A TWO METRE CONTOUR INTERVAL EXPRESSED AS METRES ABOVE MEAN SEA LEVEL.
14. ALL MEASUREMENTS SHOWN ON THESE SITE PLANS ARE IN METRIC.
15. REFER TO SHEET 2 OF 4 FOR OPERATIONAL PLANS, REFER TO SHEET 3 OF 4 FOR REHABILITATION PLANS, AND REFER TO SHEET 4 OF 4 FOR CROSS-SECTIONS.

AGGREGATE RESOURCE ASSESSMENT:

16. ONE BOREHOLE (BH6-19) WAS CORED IN THE CENTRE OF THE SITE BY NOLL DRILLING INC. IN 2019 TO ASSESS THE QUALITY AND THE AGGREGATE RESERVE. IN ADDITION, FOUR WELLS WERE DRILLED BY HOPPER WATER WELLS TO ASSESS THE QUANTITY OF THE RESERVE AND ESTABLISH THE DEPTH TO WATER TABLE. BOREHOLE AND WELL LOCATIONS ARE SHOWN ON THE PLAN.

GROUNDWATER TABLE:

17. GROUNDWATER MONITORING WELLS HAVE BEEN ESTABLISHED ON THE SITE AT THE LOCATIONS AS SHOWN. FOUR MONITORING WELLS WERE INSTALLED ON OR WITHIN 120m OF THE SITE IN 2019 TO MEASURE THE MAXIMUM WATER TABLE ELEVATION. GROUNDWATER MONITORING DATA HAS BEEN COLLECTED FROM 2019-2021. GROUNDWATER MONITORING IS ONGOING. MONITORING WELL LOCATIONS ARE SHOWN ON THE PLAN.

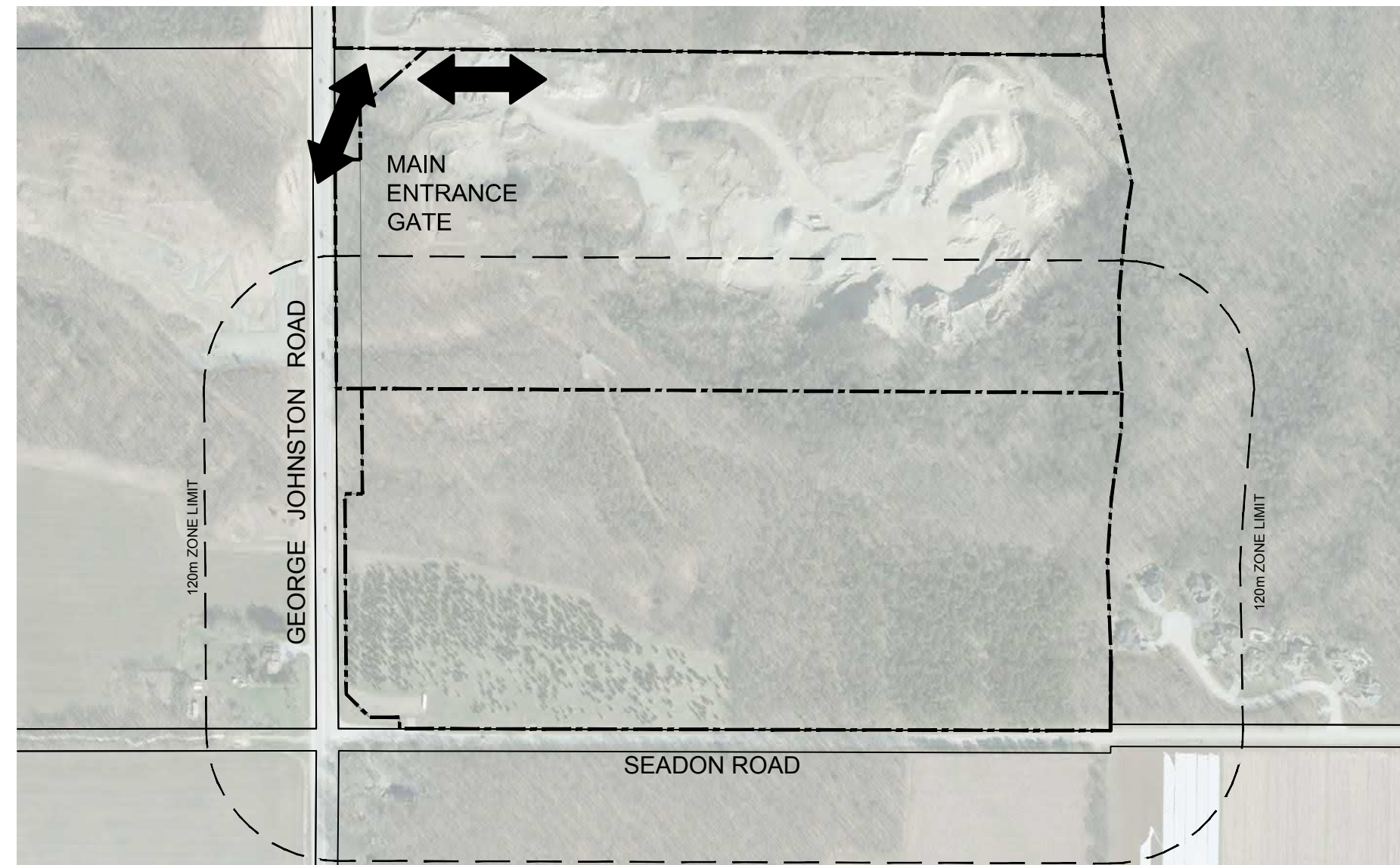
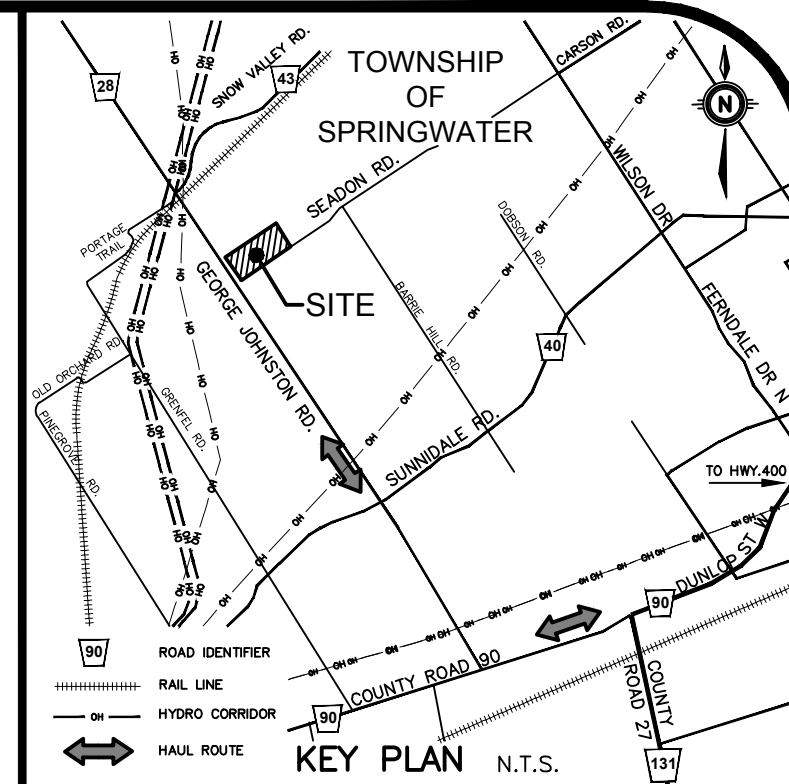
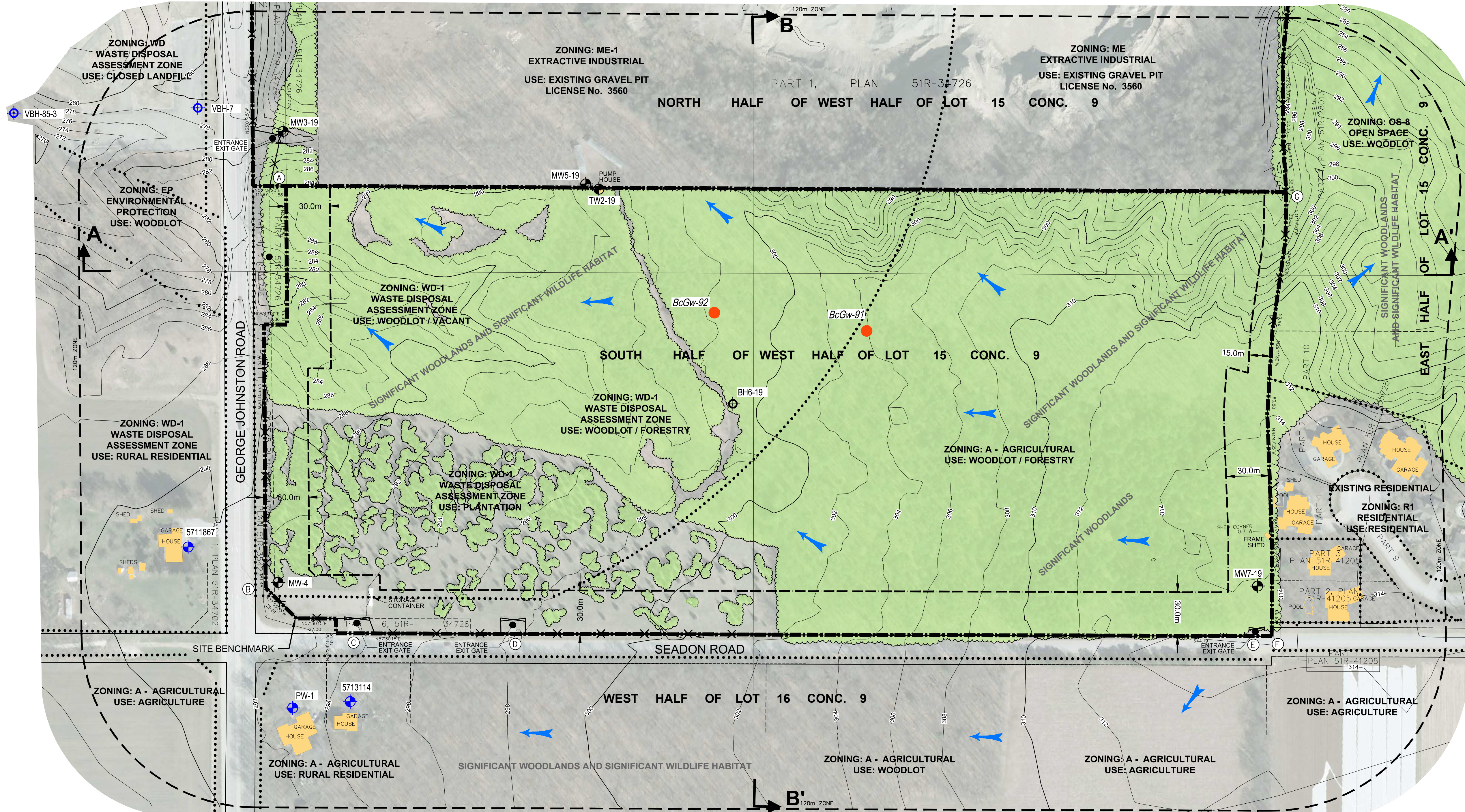
18. BASED ON AVAILABLE DATA AND INTERPRETED BY MTE CONSULTANTS INC. THE MAXIMUM PREDICTED WATER TABLE WAS BASED ON GROUNDWATER MEASUREMENTS COLLECTED ON JUNE 22, 2020. BASED ON THIS DATA, THE MAXIMUM PREDICTED WATER TABLE ELEVATION VARIES FROM ±256 MASL IN

THE SOUTHEAST CORNER OF THE SITE TO ±251 IN THE NORTH PORTION OF THE SITE.

SITE PLAN REFERENCES:

19. TOPOGRAPHIC INFORMATION COMPILED FROM SURVEY AND CONTOUR INFORMATION BY J.D BARNES LIMITED (JUNE 2020). THE CONTOUR INTERVAL IS 2m.
20. PROPERTY BOUNDARIES COMPILED FROM REFERENCE PLAN 51R-34726 (PREPARED BY PIER DE ROSA, J.D BARNES LIMITED.).
21. LAND USE INFORMATION FOR PROPERTIES WITHIN 120 METERS OF THE SITE WAS COMPILED FROM SATELLITE IMAGERY 2017 AND SITE VISIT IN SUMMER 2020.
22. CAD BY MTE CONSULTANTS INC. (NOVEMBER, 2021).
23. ONTARIO GEOLOGICAL SURVEY, AGGREGATE RESOURCES INVENTORY OF THE COUNTY OF SIMCOE, PAPER 188, 2013.
24. COUNTY OF SIMCOE OFFICIAL PLAN SCHEDULE 5.1 LAND USE DESIGNATIONS AND SCHEDULE 5.2.1 HIGH POTENTIAL MINERAL AGGREGATE RESOURCES.
25. ZONING INFORMATION COMPILED FROM THE TOWNSHIP OF SPRINGWATER COMPREHENSIVE ZONING BY-LAW 5000 (CONSOLIDATED VERSION JULY 2018).
26. SUMMARY STATEMENT AND PLANNING JUSTIFICATION REPORT BY ESHER PLANNING DATED NOVEMBER 2021.
27. NATURAL ENVIRONMENT REPORT ROOTS ENVIRONMENTAL DATED NOVEMBER 2021.
28. CULTURAL HERITAGE REPORT BY ARCHEOLOGICAL ASSESSMENT LTD. DATED NOVEMBER 29, 2013.
29. MAXIMUM PREDICTED WATER TABLE REPORT BY MTE CONSULTANTS INC. DATED NOVEMBER 2021.
30. NOISE IMPACT STUDY BY VALCOUSTICS CANADA LIMITED DATED NOVEMBER 2021.
31. PLAN OF SURVEY, PART OF WEST HALF OF LOT 15, CONCESSION 9, JOB REFERENCE NUMBER 12-11-323-02-A, PIER DE ROSA, J.D BARNES LIMITED, DATED JUNE 2, 2020.

INTEGRATION DATA			
OBSERVED REFERENCE POINTS (ORPs): UTM ZONE 17, NAD83 (CSRS) (2010.0).			
COORDINATES TO URBAN ACCURACY PER SECTION 14 (2) OF O.REG 216/10.			
POINT ID	EASTING	NORTHING	
ORP (A)	595 420.85	4 916 813.25	
ORP (B)	595 558.24	4 916 572.76	
ORP (C)	595 626.01	4 916 578.76	
ORP (D)	595 719.06	4 916 638.33	
ORP (E)	596 148.52	4 916 911.89	
ORP (F)	596 159.03	4 916 918.58	
ORP (G)	596 002.54	4 917 181.42	
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.			

DETAIL 1: LOCATION OF EXISTING ENTRANCE TO LEWIS PIT
N.T.S.

SITE BENCHMARK ELEV. = 293.06m
TOP OF SIB LOCATED IN THE SOUTH WEST CORNER OF PROPERTY (AS SHOWN ON PLAN). ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE RTK SMARTNET NETWORK CGVD28:78

I ACKNOWLEDGE AND SHALL CARRY ON THE OPERATION OF THIS SITE IN ACCORDANCE WITH THE SITE PLAN UPON WHICH MY LICENSE IS BASED.

David W. Kennedy March 16, 2022
DATE

SITE PLANS APPROVED BY:

MINISTRY OF NORTHERN DEVELOPMENT, MINES, NATURAL RESOURCES AND FORESTRY DATE

DECLARATION OF PURPOSE
THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS 'A' LICENCE PIT ABOVE WATER.

SITE PLAN VARIATIONS

8.		
7.		
6.		
5.		
4.		
3.		
2.		
1.	Zero setback along North boundary	0.13(1)10.1
No.	VARIATION	O.Reg. Section

SITE PLAN AMENDMENTS

8.		
7.		
6.		
5.		
4.		
3.		
2.		
1.		
No.	REVISION	BY YYYY-MM-DD



Engineers, Scientists, Surveyors

519-743-6500

David W. Kennedy

CLIENT
GALIBIER MATERIALS INC.

151 Whitehall Drive Markham, ON
PROJECT
LEWIS PIT EXPANSION
WEST 1/2 OF LOT 15, CONCESSION 9,
TOWNSHIP OF SPRINGWATER (FORMERLY VESPREA TOWNSHIP),
COUNTY OF SIMCOE, ONTARIO

DRAWING
EXISTING FEATURES PLAN

Project Manager	J.FLANAGAN	Project No.	40318-400
Design By	JBF	Checked By	CJC
Drawn By	WSS	Checked By	JBF
Surveyed By	J.D.BARNES	Drawing No.	AR1.1
Date	MARCH 2022		
Scale	1:1500		Sheet 1 of 4