Motion	#:		5	5	9	/20
		-	-	-	-	,



THE CORPORATION OF THE TOWNSHIP OF TINY

		Meeting Date:	November 30, 2020	
Moved by:	Mintel	_ Carried:	5-0	
Seconded by:	Welling.	Defeated:		
		Signed:	All I	

WHEREAS the Committee of the Whole considered Confidential Planning and Development Report PD-042-20 regarding the Teedon Pit Extension – Aggregate Resource Act Application;

AND WHEREAS the matter was forwarded to the November 30, 2020 Regular Meeting of Council for formal approval due to its time sensitive nature;

NOW THEREFORE BE IT RESOLVED THAT staff be directed to proceed with the recommendations in PD-042-20;

AND THAT staff include the following comments in the letter to the Ministry of Natural Resources and Forestry and CRH Canada Group Inc.:

- 1. That the Township is fundamentally opposed to the extraction and washing of aggregate in environmentally sensitive areas.
- 2. That there is presently a groundwater study being undertaken by Dr. Cherry, et al and that the findings of this report be taken into consideration by the Province prior to the issuance of any further licenses.

AND FURTHER THAT Report PD-042-20, once approved, be made public in nature.



CONFIDENTIAL PLANNING & DEVELOPMENT REPORT PD-042-20

TO:

Mayor Cornell and Members of Council

FROM:

Shawn Persaud, Director of Planning & Development

Tim Leitch, Director of Public Works

DATE:

11-30-2020

RE:

Teedon Pit Extension – Aggregate Resources Act Application

CRH Canada Group Inc.

North Part of Lot 80, Concession 1 O.S. 2 Darby Road – Roll #1-029-00 (Appendix 1)

Our File No. '19/D05 (DS #62762)

THIS ITEM WENT

NOV 3 0 2020

TO COMMITTEE OF THE WHOLE

Recommendation

It is recommended that Council:

- 1. Receive this report and attached peer review letters;
- 2. Direct staff to submit a response letter to the MNRF and CRH with the outstanding issues as outlined in this Report (see Appendix 5); and
- 3. Direct staff to continue to work with Barriston to prepare Minutes of Settlement and report back to Council if all outstanding matters are resolved.

Background

On January 22, 2019, the Township received notification of the Aggregate Resources Act (ARA) application entitled "Teedon Pit Extension" made to the Ministry of Natural Resources and Forestry (MNRF) by CRH Canada Group Inc. (CRH). The application included the following supporting studies/reports:

- Summary Statement Report, dated January 2019, prepared by Brian Zeman, MHBC Planning;
- Natural Environment Level 1 and 2 Technical Report, dated January 2019, prepared by Goodban Ecological Consulting Inc.;
- Acoustic Assessment Report, dated January 2019, prepared by Theakston Environmental;
- Hydrogeological Assessment, dated January 8, 2019, prepared by GHD;
- Stage 1 and 2 Archaeological Assessment Report, dated May 2011, prepared by The Central Archaeology Group Inc. and letter dated June 24, 2011 from the Ministry of Tourism and Culture stating that the Ministry concurs with the recommendations of the report that there are no further archaeological concerns for the subject property.
- Site Plans dated January 2019, prepared by Brian Zeman, MHBC Planning of the Existing Features, Operational Plan, Rehabilitation Plan, and Cross Sections.

The Engineering Reports were peer reviewed by R. J. Burnside & Associates Limited (Burnside), Township Engineering Consultant and Aercoustics Engineering Limited (Aercoustics), Engineering Noise Consultant retained by Burnside. The Environmental Report was peer reviewed by the Severn Sound Environmental Association (SSEA).

Confidential Planning & Development Report PD-018-19 was presented to Council at the February 28, 2019 Committee of the Whole meeting. This report provided a summary of the ARA Application and recommended Township comments to the MNRF based on the peer reviews. As a result of Motion #077/19, Recommendation #085/19, and Motion #100/19 approved by Council, a formal objection letter, dated March 25, 2019, was provided to the MNRF as the Township's formal comments on the Teedon Pit Extension ARA Application.

CRH provided a letter response dated June 20, 2019, to the Township's comments and was accompanied by the following supporting studies/reports:

- Category 1 Permit-to-take Water Renewal Application Supporting Hydrologic and Hydrogeologic Study, dated January 19, 2018, prepared by GHD;
- 2018 Domestic Well Survey, dated April 26, 2018, prepared by GHD;
- Memorandum, dated May 2, 2019, prepared by Theakston Environmental; and
- Memorandum, dated June 21, 2019, prepared by Goodban Ecological Consulting Inc.

Confidential Planning & Development Report PD-057-19 was presented to Council at the October 28, 2019 Committee of the Whole meeting. This report provided a summary of the Burnside, Aercoustics and the SSEA peer reviews of the CRH response letter and supporting studies/reports. As a result, Motion #330/19 was approved by Council, which authorized staff to provide the Report and peer reviews to the MNRF and CRH as the Township's updated comments on the Teedon Pit Extension ARA Application.

CRH provided a letter response dated November 13, 2019 to the Township's updated comments and was accompanied by the following supporting studies/reports:

- Memorandum, dated August 29, 2019, prepared by Goodban Ecological Consulting Inc.;
- Traffic Impact Study, dated October 4, 2019, prepared by C.F. Crozier & Associates Inc.;
- Letter, dated September 25, 2019, prepared by GHD regarding Professional Opinion Regarding Neighboring Domestic Wells;
- Letter, dated September 23, 2019, prepared by GHD regarding Response to Hydrogeological Comments; and
- Sign-off, dated October 25, 2019, from MECP regarding Whip-poor-will.

In addition, the Township received a copy of a letter dated December 19, 2019, from the MNRF formally withdrawing their objection to the ARA application.

Confidential Planning & Development Report PD-004-20 was presented to Council at the January 13, 2020 Committee of the Whole meeting. This report provided a summary of the Burnside and SSEA peer reviews of the CRH response letter and supporting studies/reports. As a result, Motion #022/20 was approved by Council, which directed staff to proceed with the recommendations in the Report, where were to:

1. Receive the report and attached peer review letters as information:

- 2. Direct staff to submit a response letter to the MNRF and CRH with the outstanding issues as outlined in the Report; and
- 3. Direct staff to work with Barriston to prepare Minutes of Settlement and report back to Council if all outstanding matters are resolved.

As such, staff provided a letter, dated January 29, 2020 to the MNRF and CRH as the Township's updated comments on the Teedon Pit Extension ARA Application.

Analysis

CRH provided a letter response dated September 14, 2020 to the Township's updated comments and was accompanied by an updated set of Aggregate Resources Act Site Plans for the proposed Teedon Pit extension, dated September 2020 (Appendix 2).

In addition, a Comment Response Memo, dated October 2, 2020, prepared by C.F. Crozier & Associates Inc. was provided to the Township in response to the Township's Traffic comments.

Burnside and the SSEA have peer reviewed the response information from CRH and their consulting group and have provided the following updated peer review letters as a result:

- Peer Review Letter dated October 2, 2020 from Ms. Michelle Hudolin, Wetlands and Habitat Biologist, SSEA advising that the revisions in the Site Plans address all the Natural Heritage comments outlined in the Township's letter dated January 29, 2020 (Appendix 3).
- Peer Review Letter dated November 2, 2020 from Mr. Cecil Gratrix, C.E.T., Burnside and Mr. Henry Centen, P. Eng., P. Geo., Burnside advising that the updated Site Plans have addressed all remaining hydrogeological, noise and site operations comments outlined in the Township's letter dated January 29, 2020 (Appendix 4).

As noted in Burnside's letter, there are still outstanding traffic comments. As such, Township staff have prepared a draft letter, which outlines the outstanding items that require additional attention (Appendix 5). This letter would constitute the Township's formal updated comments on the Teedon Pit Extension ARA Application.

The next LPAT Pre-hearing Teleconference is scheduled for February 26, 2021 for an update on the status of the ARA application. As per Council's last direction to staff, staff will continue to work with Barriston to prepare Minutes of Settlement and report back to Council if all outstanding matters are resolved.

Options/Alternatives

- 1. Direct Staff as recommend in this Report; or
- 2. Take other action as directed by Council.

Financial Implications

Costs associated with the peer review are cost recoverable from the owner as part of the ARA application.

Legal costs are the responsibility of the Township.

Relationship to Strategic Plan

- Deliver Efficient and Exceptional Municipal Services
- Healthy Environment and Sustainable Community Planning

Conclusion

It is recommended that staff continue to work with Burnside to review all updated traffic information provided by the proponent and continue to work with Barriston LLP, Township Lawyers, to update Council accordingly.

Respectfully,

Report prepared and submitted by:

Shawn Persaud, BA, MCIP, RPP Director of Planning and Development

Tim Leitch, P. Eng. Director of Public Works

Financial Implications Reviewed By:

Haley Leblond, Acting Director of Finance

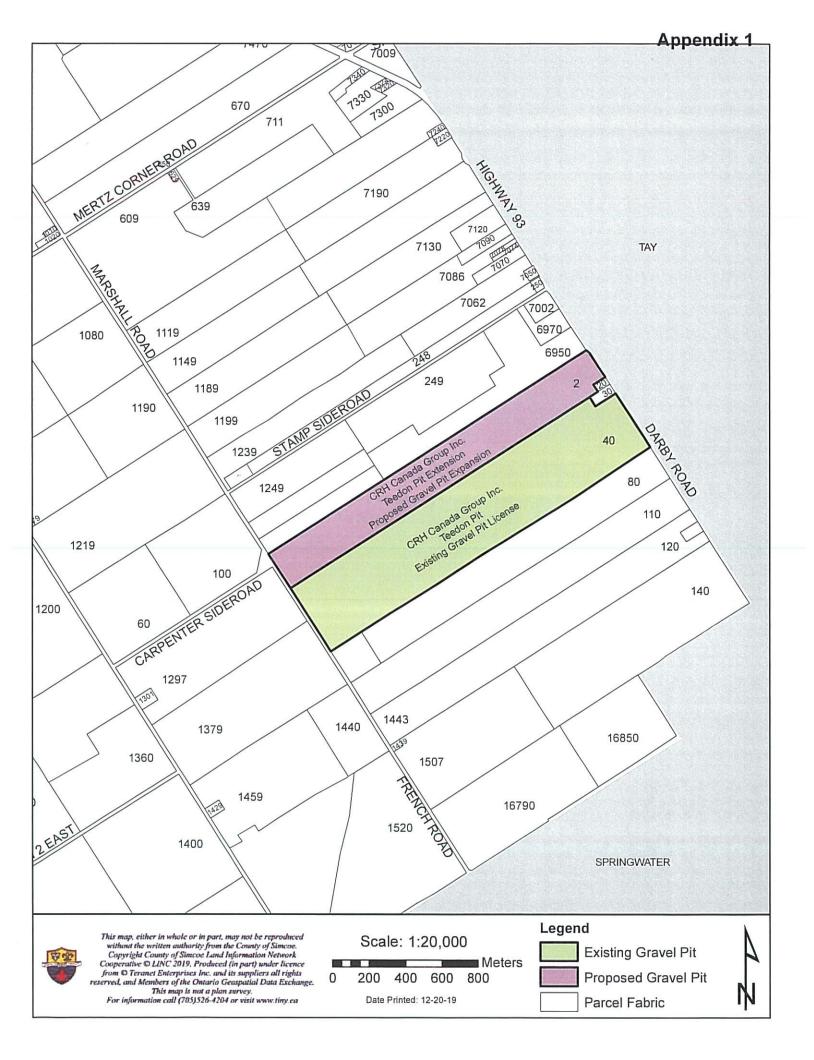
Report Approved By:

Tim Leitch, Acting Chief Administrative Officer

Report-PD-042-20 Page 5

Attachments:

Appendix 1: Subject Property Map Appendix 2: CRH Response to Township Comments Appendix 3: SSEA Peer Review Letter Appendix 4: Burnside Peer Review Letter Appendix 5: Draft Letter from the Township





KITCHENER WOODBRIDGE LONDON KINGSTON BARRIE BURLINGTON

September 14, 2020

Mr. Brent Armstrong Integrated Aggregate Operations Section Ministry of Natural Resources and Forestry 4th Floor South, 300 Water Street Peterborough, ON K9J 3C7 Mr. Shawn Persaud Township of Tiny 130 Balm beach Road Tiny, ON LOL 2J0

Dear Mr. Armstrong & Mr. Persaud:

RE: Teedon Pit Extension (No. 625375) – Updated ARA Site Plans

North ½ of Lot 80, Concession 1, W.P.R & Part of Original Road Allowance between Lots 80 & 81, Concession 1, W.P.R, Township of Tiny, County of Simcoe - OUR FILE 9061CZ

Please find enclosed an updated set of Aggregate Resources Act ("ARA") Site Plans for the proposed Teedon Pit extension, dated September 2020. These plans supersede the version of the ARA Site Plans dated January 2019, and all revisions have been identified in red to assist with MNRF and the Township of Tiny's review.

The changes identified on the enclosed set of Site Plans include the site plan revisions requested by the Township of Tiny in their January 29, 2020 letter to MNRF and CRH. For your convenience attached is a copy. It is our understanding that these revisions now resolve all of the Townships of Tiny Staff's concerns with the proposed site plans.

Should you have any questions do not hesitate to contact with the undersigned.

Yours truly,

MHBC

Bian Zernon

Brian Zeman, BES, MCIP, RPP President

cc. Kevin Mitchell | CRH

Jessica Ferri | CRH Gary Lagos | GHD Richard Murphy | GHD Anthony Goodban | GEC

Chris Quinke | Theakston Environmental Stephen Pollock | Theakston Environmental

Attachments - Township of Tiny Letter to CRH and MNRF dated January 29, 2020



130 BALM BEACH ROAD WEST TINY, ONTARIO LOL 2J0 (705) 526-4204 1-866-939-8469 FAX (705) 526-2372 www.tiny.ca

January 29, 2020

Ministry of Natural Resources and Forestry 2284 Nursery Road Midhurst, ON L9X 1N8 Attention: Robert Herbst (robert.herbst@ontario.ca)

CRH Canada Group Inc. 2300 Steeles Avenue West, 4th Floor Concord, ON L4K 5X6

Attention: Jessica Ferri (Jessica.ferri@ca.crh.com)

RE: Aggregate Resource Act Application – Teedon Pit Extension

Township of Tiny Updated Comments

North Part of Lot 80, Concession 1 O.S. (Roll #1-029-00)

Thank you for the opportunity to provide updated comments on the proposed Teedon Pit Extension Application under the *Aggregate Resources Act* (ARA).

The Township submitted an objection letter dated March 25, 2019, on the ARA application. The letter focused on comments in the following areas: hydrogeological, traffic, noise, site operation, and natural heritage.

The Township has been reviewing and commenting on all new submission material from the applicant in their effort to address the Township's objection comments. The Township has retained R. J. Burnside & Associates Limited (Burnside), Aercoustics Engineering Limited (Aercoustics), and the Severn Sound Environmental Association (SSEA) to peer review all technical material in support of the application.

Confidential Planning & Development Report PD-004-20 regarding the Teedon Pit Extension Application was presented to Council at the Committee of the Whole meeting dated January 13, 2020. This report provides the background relative to the Township's review of the application and the current status of comments. As a result of this Report, Council Motion #022/20 was approved and reads:

"WHEREAS Council reconsidered Confidential Planning and Development Report PD-004-20 regarding the Teedon Pit Extension Application;

NOW THEREFORE BE IT RESOLVED THAT staff be directed to proceed with the recommendations in PD-004-20;

AND FURTHER THAT staff include the following comments in the letter to the Ministry of Natural Resources and Forestry and CRH Canada Group Inc;

- 1. That the Township is fundamentally opposed to the extraction and washing of aggregate in environmentally sensitive areas.
- 2. That there is presently a groundwater study being undertaken by Dr. Cherry, et al and that the findings of this report be taken into consideration by the Province prior to the issuance of any further licenses.



AND FURTHER THAT Report PD-004-20 and Closed Session Meeting Minutes dated January 13, 2020, as approved, and January 27, 2020, once approved, be made public in nature."

Council Motion #022/20 and Planning & Development Report PD-004-20 are attached to this letter for your information.

Although the majority of the Township's comments have been addressed, the Township is not satisfied that all matters related to this proposal have been satisfactorily dealt with for the reasons stated in this letter.

This letter has been divided into five main theme areas: hydrogeological, traffic, noise, site operation, and natural heritage.

HYDROGEOLOGICAL COMMENTS

The Township's concerns regarding hydrogeology have been addressed. CRH has committed to making the following amendments to the proposed Teedon Pit Extension Site Plans:

- Revising Note #42 on the Operational Plan to reflect the Township's request to have AWLRs loggers installed and for the wells to be monitored monthly.
- Revising Note #42 and the monitoring well schematic on the Operational Plan to include the
 additional note: "One year prior to extraction commencing, two additional monitoring wells shall
 be installed. One between MW9–18 and MW8–18 and the second shall be installed along the
 eastern edge of the extraction area."

TRAFFIC COMMENTS

Burnside has completed a peer review of the Traffic Impact Study (TIS) prepared by C.F. Crozier & Associates Inc, dated October 4, 2019. The Township's concerns regarding traffic have not been addressed as follows:

- The CRH response notes that "No Stopping" signs will be installed on Darby Road, together with OPP enforcement, if required. In addition, CRH has confirmed that communication will be made to drivers/clients to prevent arrivals outside of the operating hours of the pit. We have assumed the OPP enforcement of "No Stopping" would be paid for by CRH. The Township requests that the TIS include the documented CRH policy and procedures to prevent the arrivals and parking of trucks prior to 5 am. This should be made available should a complaint come to the Township so a documented follow up be provided.
- The traffic counts that were used for the traffic operational analysis (i.e., Level of Service, Left Turn Lane Warrant analysis) do not capture the traffic from the Pit Extension. The peak hour counts on Darby Road do not show any heavy trucks during the peak hours analyzed. Considering that CRH has acknowledged that there have been 40 two-way truck trips during peak hours and that this will be the maximum in any given hour, a sensitivity analysis should be provided in the TIS to consider this maximum. This may impact the external road improvements required on both Darby Road and Highway 93. The TIS proposes widenings along Darby Road and a recovery taper along Highway 93 to facilitate turning movements at the intersection of Darby Road / Highway 93. The Township requests that:

- o a sensitivity analysis be provided in the TIS to consider this maximum. This may impact the external road improvements required on both Darby Road and Highway 93;
- comments / approvals be provided from the Ministry of Transportation (MTO) for the TIS and proposed highway improvements;
- CRH enter into a Road Improvement Agreement for Darby Road with the Townships of Tiny and Tay, which would include, but not be limited to, detail engineering design drawings and securities.
- The TIS concludes that left turn lane warrants are not met on Highway 93, based on the low percentages of left turn movements at the intersection of Darby Road / Highway 93. The analysis should be based on equivalent cars (i.e., factor of 2 for large trucks), together with a more realistic estimate of peak period turns that may be generated from the pit. Left turn lane warrants may be met under such conditions. The Township requests that the TIS include an analysis based on equivalent cars (i.e., factor of 2 for large trucks).

NOISE COMMENTS

The Township's concerns regarding noise have been addressed. CRH has committed to making the following amendments to the proposed Teedon Pit Extension Site Plans:

 To include the equipment list and its associated maximum sound power under the section titled "Equipment to be used Onsite and Noise/Air Mitigation". In addition, this equipment list and sound power readings are identified in Section 2.0 of the Acoustical Assessment Report.

In addition, CRH noted that they had submitted a minor site plan amendment to the MNRF to permit the construction of the acoustic berms and restrict the location of the genset trailer on-site so that this can be completed immediately. Confirmation from MNRF in this regard is requested by the Township to confirm that this has been completed.

SITE OPERATION

The Township's concerns regarding site operations have been addressed. CRH has committed to making the following amendments to the proposed Teedon Pit Extension Site Plans:

- Revising the proposed Site Plans to prohibit the storage of asphalt in the extension.
- Revising the Operational Plan add a new note to the rehabilitation page to state that "no fill shall be imported and disposed of at the site other than to establish slopes as specified in the Rehabilitation Plan."

NATURAL HERITAGE COMMMENTS

The Township's concerns regarding natural heritage have been addressed. CRH has committed to making the following amendments to the proposed Teedon Pit Extension Site Plans:

Revising the Operational Plan to change the word "should" to "shall" in the proposed note, i.e.:
 "The forest edge management zones shall be monitored for survival in the first, second and fifth years after planting. Replacement planting shall be undertaken if survival is less than 60% for each species."

- Revising the Operational Plan to add a note to the Forest Edge Management Schematic: "The
 proposed forest edge management measures within forest edge management zones 'A' AND 'B'
 will commence within three (3) years of the license issuance."
- Revising the Operational Plan to add a general note regarding invasive species monitoring and control: "Prior to and during extraction, the extraction area and immediately adjacent lands owned by CRH Canada Group Inc. will be periodically monitored for the presence of invasive plant species. Control measures will be implemented as required under the direction of a qualified ecologist. Control measures may include cutting woody stems and treating stumps with herbicide, spot application of herbicide to control newly established invasive species and/or use of tarps/covers to kill off invasive groundcover species."
- Revising Note #4 on the Rehabilitation Plan to say "... or another appropriate species recommended by a qualified ecologist at the time of planting."
- Revising Note #7 on the Rehabilitation Plan to include survival assessment at year five (5) in addition to years one (1) and two (2), and that the note will be modified to require 60% survival of each species.

In addition, the Council for the Township of Tiny, approved the following additional comments by way of Motion #022/20:

- That the Township is fundamentally opposed to the extraction and washing of aggregate in environmentally sensitive areas.
- That there is presently a groundwater study being led by Dr. John Cherry from the University of Guelph and that the findings of this report be taken into consideration by the Province prior to the issuance of any further licenses.

Sincerely,

THE CORPORATION OF THE TOWNSHIP OF TINY

Shawn Persaud, BA, MCIP, RPP, Director of Planning & Development

Tim Leitch, P. Eng. Director of Public Works

CC: Members of Council

Doug Luker, CAO for the Township of Tiny (dluker@tiny.ca)

Sue Walton, Director of Legislative Services/Clerk for the Township of Tiny (swalton@tiny.ca)

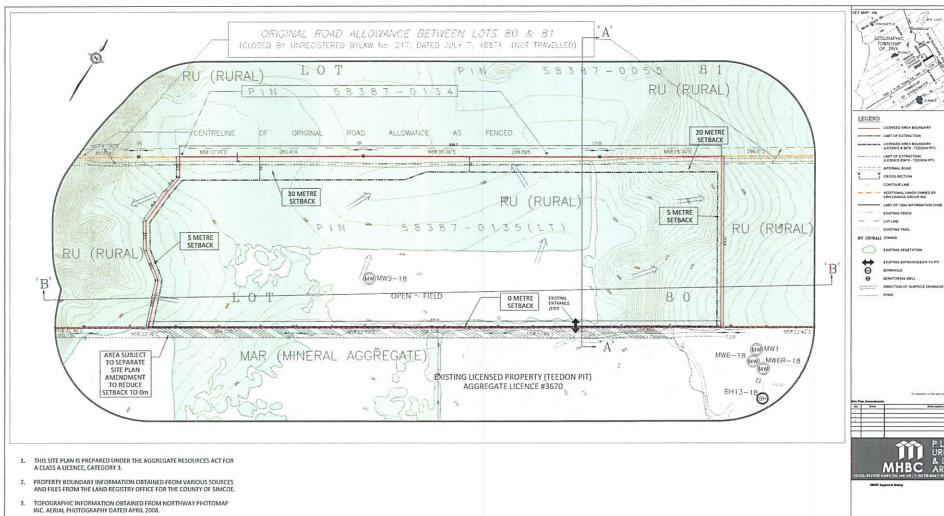
David Parks, Director Planning, Development and Tourism (David Parks@simcoe.ca)

Cecil Gratrix, R. J. Burnside & Associates (Cecil.Gratrix@rjburnside.com)

Julie Cayley, Severn Sound Environmental Association (JCayley@severnsound.ca)

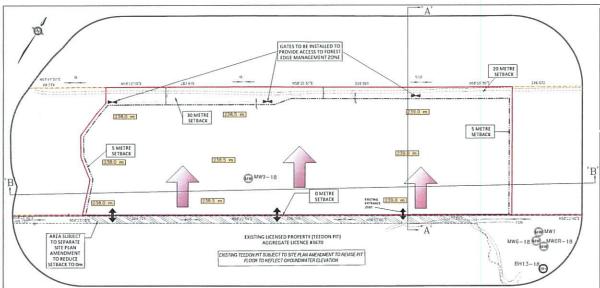
Hon. Bruce Stanton, MP, North Simcoe (bruce.stanton@parl.gc.ca)

Hon. Jill Dunlop, MPP, Simcoe North (jill.dunlopco@pc.ola.org)



- ZONING INFORMATION OBTAINED FROM THE TOWNSHIP OF TINY ZONING BY-LAW 06-001 CONSOLIDATED JULY 19, 2018.
- 5. LAND USE INFORMATION COMPILED FROM SITE INSPECTIONS IN 2018.
- 6. AREA TO BE LICENSED: 15.3 HA
- 7. AREA TO BE EXTRACTED: 13.5 HA
- THE ELEVATION OF THE ESTABLISHED WATER TABLE IS OBTAINED FROM GHD HYDROGEOLOGICAL ASSESSMENT DATED DECEMBER 2018. THE FINAL DEPTH OF EXTRACTION WILL BE A MAXIMUM OF 1.5m ABOVE THE ESTABLISHED WATER TABLE. NO EXTRACTION WILL OCCUR BELOW THE
- 9. REFER TO SHEET 4 OF 4 FOR CROSS-SECTIONS.





SITE AREA CALCULATIONS 1. AREA TO BE LICENSED 15.3 HA

- 2 AREA TO BE EXTRACTED 13 5 HA

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- 4 THE HOURS OF OPERATION SHALL BE
- AL SHIPPING MONDAY TO FRIDAY SAM TO 7PM AND SATURDAY SAM TO 4PM B) SITE PREPARATION EXTRACTION PROCESSING, AND REHABILITATION— MONDAY TO PREDAY 7AM TO 7PM
- DI THERE WILL BE NO OPERATIONS ON SUNDAYS OR STATUTORY HOLEDAYS E) MAINTINANCE/ SERVICING EQUIPMENT - NO RESTRICTIONS

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- 5 PRIOR TO THE INSTALLATION OF FENCING, TREE CLEARING SHALL OCCUR ALONG THE BOLINDARY OF THE SITE IN ACCORDANCE WITH THE TREE REMOVAL NOTES ON THIS PAGE.
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- B) WITHIN THE EXTRACTION AREA A 15th WIDE AREA OF TREES ALONG THE WEST, NORTH AND EAST LIMITS OF EXTRACTION SHALL BE REMOVED.
- TREE CUTTING IN TREE CLEARING ZONE 'Y SHALL OCCUR BETWEEN NOVEMBER 1ST AND MARCH 31ST INCLUSIVE.
- 16 TREE CUTTING IN TREE CLEARING ZONE 'Z SHALL OCCUR BETWEEN NOVEMBER 15T AND ANAJARY 31ST INCLUSIVE
- 11. SUITABLE TREES WILL BE HARVESTED FOR SAW LOGS AND OR FUEL WOOD STUMPS AND OTHER WOOD REFUSE (WASTE WOOD LIMBS & BRUSH MAY BE USED FOR PIT REPMAILTAINON RAIPHOSES, REMOVED FROM THE STE OR PLED ON THE SITE TO BE CHIPPED OR BURIED IN THE SIDE SLOPE.
- 12 SEE TREE CLEARING SCHEMATIC, THIS PAGE FOR TREE REMOVAL LOCATIONS TO PRE-STRESS THE NEW FOREST EDGE AND TRANS RESTRICTIONS.

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- 16 FOLLOWING COMPLETION OF THE EDGE MANAGEMENT PLAN A CHALFED ECOLOGIST OR FORESTER SHALL PREPARE A REPORT DOCUMENTING TH MANUSHIMS AND OF THE FOREST EDGE MANAGEMENT PLAN THE REPOI SHALL BE SUBMITTED TO THE MINISTRY OF NATURAL RESOLUCES AND FORESTER SARRY.

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ACCESS TO THE PIT

- 18. ACCESS TO THE PIT WALL BE THROUGH THE ADJACENT TEEDON PIT (LICENCE \$1870) FROM THE ENTRANCE ONTO DARBY ROAD. THE ENTRANCE TO DARBY BOAD SHALL BE GATED AND LOCKED WHEN THE PIT PROPERTIES ARE NOT BY
- 19 EQUIPMENT AND TRUCKS MAY ACCESS THE SITE ALONG THE COMMON EXTRACTION BOUNDARY OF THE AGUACENT TEEDON PIT QUEENCE # 36701
- 29. AGGREGATE FROM THE PIT MAY ALSO BE TRANSFERRED TO THE ADJACENT

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- 22 DUE TO SIZE OF THE PIT AND THE DEPTH OF EXTRACTION THE PIT WALL BE
- 23 EXTRACTION WILL ADVANCE GENERALLY IN A SOUTH TO NORTH DIRECTION FROM THE ADJACENT TEEDON PT (LICENCE # 1970).
- 24 THE PIT WILL BE EXTRACTED IN UP TO 54 LIFTS. SEE PAGE 4 OF 4. PIT FACES SHALL NOT EXCEED THE REGULATIONS DETERMINED BY THE MINISTRY OF LABOUR.
- 25 AS EXTRACTION PROCEEDS MORTH, FACE REDGES ON EACH-LIFT IMPROXIMATELY TISS IN HERIZHT) SHALL BE MARTANED AT THE EAST AND WEST LIMITS AND MAY BE REMOVED AS PART OF THE FRAME EXTRACTION OF EACH LIFT AFTER THE PROCESSING PLANT IS RELOCATED TO THE NEXT LOW LIFT.

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26 GENERAL TYPES OF EQUIPMENT TO BE USED IN THE OPERATION OF THE PIT WILL INCLUDE BUT NOT BE LIMITED TO BALLDOZERS, EXCAVATORS, FRONT-END (LADADERS, DUMP TRUCKS AND POTATIALE CRUMPHING) SCREENIN

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TRIPLE DECK SCREEN	1172	HIGHWI TRICKS	1100
DOWER DECK SCREEN	117.0	LOADER INGHANT TRUCKS	106.6
CONTYON DAGS	110.3	PRIMARY PLANT	1113
LOADER (PLANT)	100.4	LOACER (PRIMARY PLINT)	108.6
GENEET WACH PLANT	117.0		-
	1-	41	

- 28 THE PORTABLE CRUSHING PLANT IS TO BE SITUATED WITHIN 30% OF THE WESTERN WORKING FACE DURING THE FRIST LIFT, WINDIN WITHIN 2006 OF THE WESTERN LIBIT OF EXTRACTION IN ORDER TO MAXABLE SOUND ATTRIBUTION.
- 30. THE GENSET TRALER FOR THE PROCESSING PLANT NEEDS TO BE ORIENTATED WITH THE EDWALST DISCHARGE POINTED AWAY FROM THE SENSITIVE RECEPTION AT BUILDING WORLD WORK PROCESSING TO THE FOR
- 31 BETWEEN THE HOURS OF \$ 00 TO 7:00 AM ONLY SHIPPING IS PERS MY INCLUDE A MAXIMAN OF 15 HIGHWAYS TRUCKS PER HOUR (S TAPS) AND A MAXIMAN OF 1 SHIPPING LOADER IN COMBINATION I EXISTING TEEDON PTI SUCHICE KINFOL
- 33 DUST SHALL BE MITIGATED ON SITE.
- 34 WATER OR ANOTHER PROVINCIALLY APPROVED DUST SUPPRESSANT WALL BE APPLIED TO INTERNAL HAUR ROADS AND PROCESSING AREAS AS OFTEN AS REQUIRED TO INTERNAL DUST
- 26. PROCESSING EQUIPMENT WILL BE EQUIPPED WITH DUST SUPPRESSING OR COLLECTION DEVICES. WHERE THE EQUIPMENT CREATES DUST AND IS BEING OPERATED WITHIN SUM: OF A SENSITIVE RECEPTIOR.
- 38 THE DPERATOR SHALL RESPOND TO DRIECTIONS / CONCERNS FROM THE RESIDENTS OR THE MINISTRY OF THE DIVINCOMEDIT, CONSERVATION AND PARAS RELATING TO NOISS BROWN ARE QUALITY TO DESERTE APPROPRIATE BY THE MINISTRY OF THE ENWICKMENT, CONSERVATION AND PARKS PURITHER MITIGATION MEASURES AND MONOTORING SHALL BE MAINTAINED.
- 32 SHOULD THE DETERMINED THAT MOSE OR AIR WOLATIONS LINERS THE DIMINIORIENTAL PROTECTION ACT ARE OCCURRING FROM TO OPERATION THE PROTEON OF THE OPERATION BELTAND TO THE APPLICATION OF THE PROTEON OF THE OPERATION TRATTER WITH ATTEM MEASURES AS DETERMINED IN WINESTER OF DIMINIORIENT CONSERVATION AND PRANT OPERATIONS RELEATING TO THE AIRPORT MAY AGAIN COMBINED UPON WAITTH CLEARAGE FROM THE MAISTEY OF DIMINIORIANT, CONCERNS.

FUEL HANDLING / STORAGE AND SERVICING

38 FUEL STORAGE WILL BE IN ABOVE GROUND TANKS CERTIFIED IN ACCORD WITH APPROVED STANDARDS. FUEL STORAGE WALL BE LOCATED PROXIN TO THE PROCESSING AREA. REFUELLING BY FUEL TRUCKS IS ALSO PERM

BUILDINGS / STRUCTURES

WATER MONITORING

38 NO BUILDINGS OR OTHER STRUCTURES (I.E. WEIGH SCALES) WILL BE PLACED ON THE LICENSED PROPERTY.

48 NO SCRAP SHALL BE STORED ON SITE

- STOCKPLING OF AGGREGATE 41. STOCKPRES OF AGGREGATE SHALL BE LOCATED ON THE ACTIVE PIT FLOOR.
 THE MAXMAM HEIGHT OF AGGREGATE STOCKPILES IS 15m.
- EROSION / SEDMENT CONTROL 42. SILT FENCHIG WILL BE INSTALLED SIN BEYOND THE WEST, NORTH AND EAST
- 43 ONE YEAR PRIOR TO EXTRACTION CORRESIONS TWO ACCITENAL MOVITORING MELLS BALL, SET NOTALLED, ONE SET WILLIAMS TO MOU MAND TO MOUTHOUS SHALL SET AND THE SECRET SHALL SH

- 44 MANG 18 SHALL BE MONITORED GLIARTERLY FOR WATER LEVELS UNTIL IT IS REMOVED FOR EXTRACTION.
- EXTRACTION SHALL REMARN IS METRES ABOVE THE ESTABLISHED WATER
 TABLE, BY THE EVENT THE WATER LEVEL DATA NOICATES THE MAXIBAM OF EXTRACTION IS LESS THAN IS SMETES ABOVE THE ESTABLISHED WAT
 TABLE. THE MAXIBAM DEPTH OF EXTRACTION SHALL BE ADJUSTED
 ACCORDINALLY TO MARTANT THE 1S METRE EXPTH.
- 46 THE OPERATOR SHALL MAINTAIN A RECORD OF THE MOINTORING RESILETS TO VERFY THAT EXTRACTION REMAINS 15th ABOVE THE ESTABLISHED WATER TABLE

ARCHAEGLOGICAL

- 44. THE CEMETERIES ACT REQUIRES THAT MAY PERSON DISCOVERING HAMAN REMAINS MUST NOTIFY THE POLICE OR CORONER AND THE REGISTRAR OF CEMETERIES, MINISTRY OF GOVERNMENT AND CONSIMER SERVICES.
- APPORTED MATERIALS

NA AGGREGATE MAY BE IMPORTED ONTO THE LICENSED PROPERTY FOR PROCESSING AND BLENDING WITH ON-SITE AGGREGATE.

- SO THE STORAGE OF ASPHALT SHALL NOT BE PERSOTTED ON SITE

CLOW MENT THE MAY SOLVE AN EXPORTED TO PLACEMENT BY FACES SEE PLACE OF A PIC OPPOSITION AND TOWARD THE PLACE FACES SEE PLACE OF A PIC OPPOSITION AND TOWARD THE PLACE FACES SEE PLACE OF A PIC OPPOSITION AND TOWARD THE PLACE FACES SEE PLACE OF A PIC OPPOSITION AND THE PLACE FACES SEE PLACE THE PLACE TO THE MANERATION OF PROPERTY. MAY SEE CONTROLLED AND THE PLACE TO THE DEMONSTRATION APPOINTMENT FROM THE PLACE OF THE PLACE THE PLACE THE PLACE FACES SEE PLACE THE PLACE THE PLACE THE PLACE FACES SEE PLACE THE PLACE THE PLACE THE PLACE FACES SEE PLACE THE PLACE THE PLACE THE PLACE FACES SEE PLACE THE PLACE THE PLACE THE PLACE FACES SEE PLACE FACES SEE PLACE THE PLACE THE PLACE THE PLACE FACES SEE PLACE FACES SEE PLACE THE PLACE THE PLACE FACES SEE PLACE FACES FA

- NOTWITHSTANDING THE ABOVE, WHERE THE IMPORTED MATERIAL IS NO BEING PLACED WITHIN 15 METERS OF THE SURFACE. THE CRITERIA UNDITABLE 1 FOR SORIAM ABSORPTION RATED AND ELECTRICAL CONCULCTIVE NOT HAVE TO BE MET.
- IS NO FILL SHALL BE MAPORTED AND DISPOSED OF AT THE SITE OTHER THAN TO EXTAIN THE SCIENCE AS SERVICIONS IN THE REPORTS PLAN.

SPELS RESPONSE PLAN

- 54 ALL EMPLOYEES AND CONTRACTORS MUST DIET THE FOLLOWING INSTRUCTIONS WHEN HANDLING POTENTIAL CONTAMINANTS ON THE LICEN
- 56. ALL EMPLOYEES AND CONTRACTORS HANDLING FUEL AND FOR POTENTIAL CONTAMINANTS WILL BE INSTRUCTED AS TO THE PROPER. SAFE HANDLING-SLICH FUELS J CONTRAMINANTS.
- SE POTENTIAL CONTAMINANTS, I.E. PUEL, WILL BE STORED AND HANDLED AS REQUIRED BY PROVINCIAL LEGISLATION
- 57. ALL REPORTABLE SPALIS OR RELEASE OF CONTAMENANTS MUST BE CLEAMED UP BABEDATELY AND TRANSPORTED TO AN APPROVED WASTE DEPOSAL SIT BY A LICEWIST DHALER, MAY SPAL MUST BE REPORTABLE TO THE PREVENT FURTHER SPREAD (I.E. EXCANTE AND CONTAIN OR, SOMAED) MATERIAL IN A LONGER BULLET LUTHE DISTORACE AND RE ARRANGEMENT.
- 58 ALL SPELS OR RELEASE OF CONTAMINANTS MUST BE BRIEDIATELY REPORTS TO THE MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS SPELS ACTION CENTRE BY TELEPHONE AT 1 4800 2804 6880.
- OYEES AND CONTRACTORS WORKING ON SITE WILL BE INFORMED OF T S RESPONSE PLAN AND REQUIRED TO COMPLY WITH THESE

OWNED BY LICENSEE LEGEND TREE CLEARING WITHIN 3 YEARS OF LICENCE ISSUANCE - 20m (INCLUDES 5m OF SETBACK BEYOND EXTRACTION AREA AND

15m OF EXTRACTION AREA) SEE

SCHEMATIC FOR LOCATION

TREE CLEARING ZONE 'I'

TREE CLEARING ZONE 'Z'

MOV 15T - MAR 315T

TREE CLEARING SCHEMATIC

MONITORING WELL SCHEMATIC

DEPENDED AND A

FOOTING HICEWISE PROPERTY (TEEPON PT)

AGGREGATE LICENCE #3670

MW1-09 ACCUTIONAL LANCE

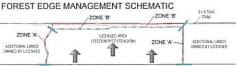
MONITORING WELL LOCATION

1. WITHIN THREE (3) YEARS OF LICENCE ISSUANCE TREES Sm BEYOND THE EXTRACTION AREA SHALL BE CLEARED (BUT NOT GRUBBED). 2. WITHIN THREE (3) YEARS OF LICENCE ISSUANCE, AN

MW-B ACEITICINAL LANDS DWNED BY LICENSEE

MW5-18

- ADDITIONAL 15m WIDE AREA SHALL BE CLEARED OF TREES ALONG THE WEST, NORTH AND EAST EDGES OF THE EXTRACTION AREA.
- AS EXTRACTION PROGRESSES NORTH TREE CLEARING SHALL OCCUR AS REQUIRED TO ADVANCE EXTRACTION AND MINIMIZE THE DISTURBED AREA.



DIS PRINCIPO EDECST EDGE MANAGEMENT MEASURES WITHIN FOREST FOOF MANAGEMENT ZONES WAND TO



- WITHIN 10m OF THE NEW FOREST EDGE MARK DEFECTIVE TREES FOR CUTTING, CUT UP STEMS/TRUNKS INTO 1 TO 2 METRE LENGTHS AND
- IN THE Sm AREA BETWEEN THE FENCE AND THE EXTRACTION LIMIT THE NEW FOREST EDGE WILL BE AUGMENTED BY PLANTING RED DAK (57%) AND WHITE PINE (33%) IN GAPS. SPACING WILL VARY PLANTING, BUT SHALL BE AT LEAST 3m APART,
- TREE PLANTING WITHIN FOREST EDGE MANAGEMENT AREA SHALL BE 1 OR 2 GALLON CONTAINER STOCK
- TREE PLANTING SHOULD OCCUR DURING THE SPRING PERIOD, LF. APRIL OR EARLY MAY. NECESSARY, FALL PLANTING MAY DECEUR AFTER SEPTEMBER 20 TO
- THE POPEST EDGE MANAGEMENT ZONES SHALL BE MONITORED FOR MANAGEMENT ZONES SHALL BE MONITORED FOR SURVIVAL IN THE FAST, SECOND AND REFLANGABLER FLANTING, REPLACEMENT FUNCTIONS SHALL BE UNCESTARENT SURVIVAL IS LESS THAN SON FOR EACH SPECIES.

FOREST FOGE (NORTH SIDE) SOUTH SIDE OF LICENSED BOUNDARY TRAIL WHERE FFACIRI F PLANT EXISTING TRAIL WITH 1.2 ROWS OF LIMT OF EXTRACTION WHITE SPRUCE

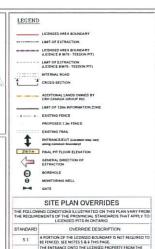
REMOVE

DEFECTIVE

EDGE WITH RED OAK TREES AND WHITE PINE . RETAIN THE EXISTING 4.5m WIDE TRAIL WITHIN THE FORMER ROAD ALLOWANCE AS A PRIVATE ACCESS FOR THE OPERATOR TO IMPLEMENT FOREST EDGE MANAGEMENT.

AUGMENT NEW FOREST

- BETWEEN THE EXISTING TRAIL AND THE FENCE MARK DEFECTIVE TREES FOR CLITTING, CUT UP STEMS/TRUNKS INTO 1 TO 2 METRE LINGTHS AND PLACE ON FOREST FLOOR. CUT UP TOPS INTO BRUS PILES FOR WILDLIFE OR, ALTERNATIVELY, CHPPED AND PLACED OF THE 4.5m WIDE TRAIL.
- ALONG THE SOUTH SIDE OF TRAIL, WHERE FEASIBLE THE FORESTED AREA WILL BE AUGMENTED BY PLANTING ONE [1] OR TWO [2] ROWS OF WHITE CEDAR AND WHITE SPRUCE ON 2m SPACING OR
- IN THE SIM AREA BETWEEN THE FENCE AND THE EXTRACTION LIMIT THE NEW FOREST EDGE WILL BE AUGMENTED BY PLANTING RED DAY, (STA), AND WHITE PINE 33%, IN CAPS. SPACING WILL WARY ACCORDING TO EDGE CONCITIONS AT THE TIME OF PLANTING, BUT SHALL BE AT LEAST 3 IM APART.
- TREE PLANTING WITHIN FOREST EDGE MANAGEMENT AREA SHALL BE 1 OR 2 GALLON CONTAINER STOCK.
- TREE PLANTING SHOULD DCCUR DURING THE SPRING PERIOD, LE APRIL OR EARLY MAY, DEPENDING ON SEASONAL CONDITIONS. IS NECESSARY, FALL PLANTING MAY DCCUR AFTER SEPTEMBER 20TM.
- THE FOREST EDGE MANAGEMENT ZONES SHALL BE MONITORED FOR SURVIVAL IN THE FIRST, SECOND AND 19TH YEARS AFTER PLANTING, REPLACEMENT PLANTING SHALL BE UNDERTAKEN IS SURVIVAL IS LESS THAN 60% FOR EACH SPECIES.



A PORTION OF THE LICENSED BOUNDARY IS NOT REQUIRED TO BE FENCED. SEE NOTES S & 6 THIS PAGE.
THE ENTRANCE ONTO THE LICENSED PROPERTY FROM THE TECODN IT PROPERTY BLENCE & 18-701 WILL NOT BE GATED. THE ENTRANCE TO THE TECODN PIT PROPERTY FROM DARBY PONDIS CASES. NO EXCAVATION SETBACK WILL EXIST ALONG THE SOUTH LICENSED BOUNDARY ADJACENT TO THE TEEDON PIT (LICENSE # 3670). THE EXCAVATION SETBACK ALONG THE WEST AND EAST BOUNDARY IS 5M FROM THE LICENSED BOUNDARY.

OVERBURDEN, TOPSOIL AND AGGREGATE CAN BE STOCKPILES
WITHIN 30m OF THE SOUTHERN BOUNDARY ADJACENT TO THE TEEDON PIT BUCENCE # 36201 THE PORTABLE PROCESSING PLANT MAY BE LOCATED WITHIN 30m OF THE SOUTHERN BOUNDARY ADJACENT TO THE TEEDON PIT BLCENCE # 3670]. TEREION FIT GITENICE # 36-70].
TOPSOIL AND OVERBURDEN MAY BE MOVED BETWEEN THIS SITE AND THE ADJACENT TERDON FIT GLICENICE # 36-70] TO PROVIDE TIMELY AND EFFECTIVE REHABILITATION OF BOTH 5.16/5.17 THE AGGREGATE RESOURCES ACT SIGN FOR THE SITE WILL BE LOCATED AT THE DARBY ROAD ENTRANCE OF THE ADJACENT

5.22



TEEDON PIT (LICENCE # 3670) SINCE THE LICENSED BOUNDARY DOES NOT HAVE FRONTAGE ONTO ANY PUBLIC ROADS.

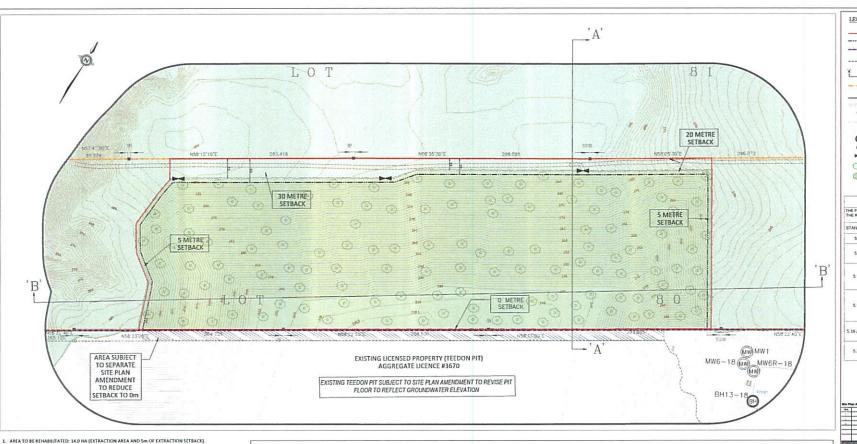
TEEDON PIT EXTENSION

2 Darby Road, Tiny, CN LDK 2E1 North 1/s of Lot 80, Concession 1, W.P.R. & Part of ongrain load allowance between lots 80 & 81, Concession 1, W.P.R., Geographic Township of Tiny, County of Simcoe

CEDARHURST QUARRIES & CRUSHING LIMITED CID CRH CANADA GROUP INC

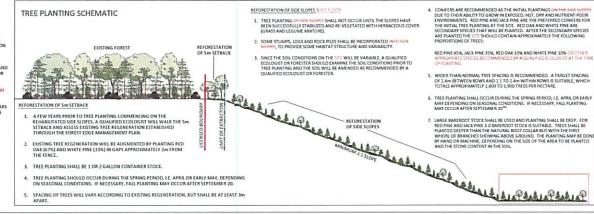
2300 Steeles Avenue W. Suite 400 Concred Octave I 4K 5X6 4-by BZ September

OPERATIONAL PLAN 2 OF 4



- 2. THE ELEVATION OF THE ESTABLISHED WATER TABLE RANGES ON SITE FROM ±236.5mASL TO ±237.5mASL.
- PROGRESSIVE AND FINAL REHABILITATION OF THE DISTURBED AREA WILL BE COMPLETED AS EXTRACTION REACHES FINAL LIMITS AND DEPTHS.
- 4. Final PIT FACES WILL BE SLOPED AT 3: 1 TO 5:1. FINAL SLOPES WILL BE CREATED USING A COMBINATION OF CUT & FILL AND/O DE ACKETILING. AVAILABLE OVERBURDEN AND TOPOOL FROM ON SIFE WILL BE APPLIED ON THE SLOPES AND FINAL PIT FLOOR. SEE PAGE 4 OF 4. CLEAN HIRET FILL MAY ALSO BE IMPORTED FOR THE PURPOSES OF ESTABLISHING INFORM SLOPES IN ACCORDANCE WITH THE REQUIREMENTS ON PAGE 2 OF 4.
- THE OBJECTIVE OF THE REHABILITATION PLAN IS TO REFOREST THE SETBACK AREAS, AND THE SIDE SLOPES AND
 THE PIT FLOOR SHARLES OF REHABILITATION PLAN IS TO REFORE THE PLANTING SCHEMATIC THIS PAGE FOR
 TREE PLANTING DETAILS.
- 6. THE PIT FLOOR SHALL BE GRADED AND CONTOURED AS SHOWN ON THIS PAGE AND TOPSOIL REAPPLIED. AND FLANTED WITH SEED CONDUCIVE TO FORM CHOPLAND THEREAFTER.
- THE TREE PLANTING AREAS SHALL BE MONITORED FOR SURVIVAL BY THE FIRST. AND SECOND AND FETTH YEARS AFTER PLANTING. REPLACEMENT FLANTING SHOULD BE UNDERTHANN IN SURVIVAL OF LACHSPICES BILES THAN BOOK. IF REPLACEDUS COMPITIONS PERFUNDING THE GROWN'TH THES SURVIVAL AT RETURN TRAITMENT MAY BE INCESSARY (E.G. HERRICIDE APPLICATION BY A LICENSED PESTICIDE APPLICATION).
- B. PRIOR TO SURRENDER OF THE LICENCE A QUALIFIED ECOLOGIST OR FORESTER SHALL PREPARE A REPORT DOCUMENTING:
 - A) THE IMPLEMENTATION OF THE REFORESTATION PLAN;
 - B) TO ASSESS THE NEED FOR ANY STAND THINNING TO PROMOTE FURTHER NATIVE HARDWOOD REGENERATION; AND
 - c) TO IDENTIFY OTHER MANAGEMENT OPPORTUNITIES IF APPROPRIATE.

IF REQUIRED ANY FURTHER WORK SHALL BE COMPLETED PRIOR TO THE SURRENDER OF THE LICENCE. THE REPORT SHALL BE SUBMITTED TO THE MINISTRY OF NATURAL RESOURCES AND FORESTRY (MNRF).





CIO CRH CANADA GROUP INC

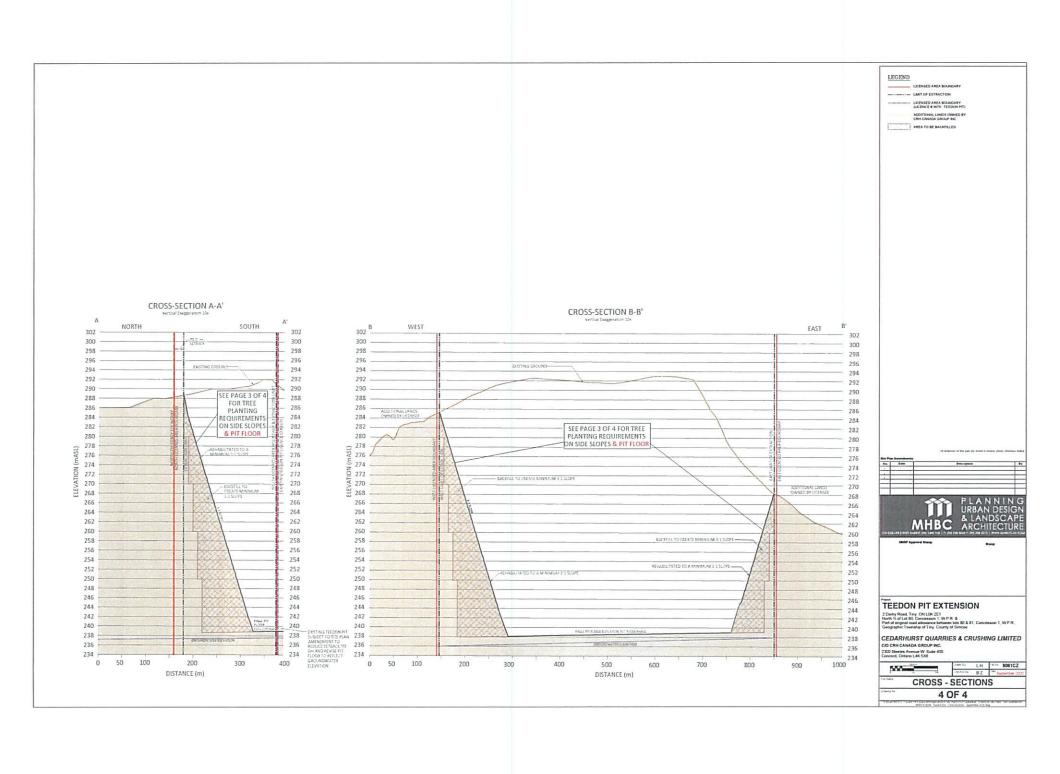
2300 Steeles Avenue W Suite 400 Concord, Ontario L4K 5X6

REHABILITATION PLAN

3 OF 4

LH Section SOCICZ

BZ September 2020





Severn Sound Environmental Association

489 Finlayson St, PO Box 460, Port McNicoll ON L0K 1R0 **Phone** (705) 534-7283 | **Fax** (705) 534-7459

Email: MHudolin@severnsound.ca Website: www.severnsound.ca

October 2, 2020

Shawn Persaud Director of Planning & Development Corporation of the Township of Tiny 130 Balm Beach Road West Tiny ON L0L 2J0

Dear Mr. Persaud,

RE: Review of updated ARA Site Plans, dated September 2020, for Proposed Teedon Pit Extension, Township of Tiny

In response to your request on September 15, 2020, the Severn Sound Environmental Association (SSEA) has reviewed the updated Site Plans for the proposed Teedon Pit Extension, dated September 2020.

The revisions to the Site Plans included amendments with respect to tree planting, forest management, invasive species monitoring, and rehabilitation. This included:

- Revising the Operation Plan to change the word "should" to "shall" in the proposed note, i.e.: "The forest edge management zones shall be monitored for survival in the first, second and fifth years after planting. Replacement planting shall be undertaken if survival is less than 60% for each species."
- Revising the Operational Plan to add a note to the Forest Edge Management Schematic: "The proposed forest edge management measures within forest edge management zones 'A' AND 'B' will commence within three (3) years of the license issuance."
- Revising the Operational Plan to add a general note regarding invasive species monitoring and control: "Prior to and during extraction, the extraction area and immediately adjacent lands owned by CRH Canada Group Inc. will be periodically monitored for the presence of invasive plant species. Control measures will be implemented as required under the direction of a qualified ecologist. Control measures may include cutting woody stems and treating stumps with herbicide, spot application of herbicide to control newly established invasive species and/or use of tarps/covers to kill off invasive groundcover species."
- Revising Note #4 on the Rehabilitation Plan to say "... or another appropriate species recommended by a qualified ecologist at the time of planting."

• Revising Note #7 on the Rehabilitation Plan to include survival assessment at year five (5) in addition to years one (1) and two (2), and that the note will be modified to require 60% survival of each species.

In summary, the revisions in the Site Plans address all the Natural Heritage comments outlined in the Township's letter dated January 29, 2020.

If you have any questions, please contact me.

Sincerely,

Michelle Hudolin Wetlands & Habitat Biologist



November 2, 2020

Via: Email

Timothy Leitch, P.Eng. Director of Public Works Township of Tiny 130 Balm Street West Tiny ON LOL 2J0

Dear Mr. Leitch:

Re: Teedon Pit Extension

CRH Canada Update Site Plans

Township of Tiny, County of Simcoe, Ontario

Project No.: 300031221.0000

The Township of Tiny (Township) submitted a letter dated January 29, 2020 with updated comments to an application for a Category 3 License under the Aggregate Resources Act for the proposed expansion of the Teedon Pit located in North ½ of Lot 80, Concession 1.

CRH Canada Group Inc. (CRH), by letter dated September 14, 2020 provided an updated set of Aggregate Resources Act (ARA) Site Plans, which illustrated changes requested by the Township's January 29, 2020 comment letter.

Crozier Consulting Engineers provided a Comment Response Memo, dated October 2, 2020 to respond to the Township's January 29, 2020 traffic review comments.

R.J. Burnside & Associates Limited (Burnside) was retained by the Township to peer review the updated set of ARA Site Plans with respect to Hydrogeological, Traffic, Noise and Site Operation matters. It is our understanding that the Severn Sound Environmental Association will provide peer review comments relative to Natural Heritage matters.

Listed below are the Township's January 29, 2020 comments. The Burnside review comments are shown in italics.

Hydrogeological

Township Comments

CRH has committed to making the following amendments to the proposed Teedon Pit Extension Site Plans:

 Revising Note #42 on the Operational Plan to reflect the Township's request to have AWLRs loggers installed and for the wells to be monitored monthly.

> Revising Note #42 and the monitoring well schematic on the Operational Plan to include the additional note: "One year prior to extraction commencing, two additional monitoring wells shall be installed. One between MW9–18 and MW8–18 and the second shall be installed along the eastern edge of the extraction area."

Burnside Response

CRH has made the above noted amendments to Note 43 of the ARA Site Plans.

Traffic

Township Comment

• The CRH response notes that "No Stopping" signs will be installed on Darby Road, together with OPP enforcement, if required. In addition, CRH has confirmed that communication will be made to drivers/clients to prevent arrivals outside of the operating hours of the pit. We have assumed the OPP enforcement of "No Stopping" would be paid for by CRH. The Township requests that the TIS include the documented CRH policy and procedures to prevent the arrivals and parking of trucks prior to 5 am. This should be made available should a complaint come to the Township so a documented follow up be provided.

Crozier Comment

The requested CRH policy and procedures were attached to the Crozier Memo and include the following policies and procedures for the protection of the Township residents on Darby Road:

- No trucks are permitted to be parked and/or idol on Darby Road or any other nearby road prior to 7am, nor allowed to enter the site prior to 7 am.
- All trucks are to enter and exit Darby Road from its north end, with no trucks allowed to enter from the south end of this road.
- Warnings will be issued to truckers found to be in contravention of the above requirements.
 Suspension will be imposed from all Dufferin Aggregates locations for those truckers who are repeat offenders of these provisions.
- General health and safety policy specifies a maximum idling time of 5 minutes for trucks within the pit, when trucks are not being loaded upon arrival to the yard.

Burnside Response

These provisions will reduce the potential for complaints from residents. However, we suggest that the policy be expanded to agree to the following:

- Responsibility of the applicant to provide ongoing periodic monitoring of on-site and off-site
 operations, and reporting to the Township, to confirm that the provisions of the policies and
 procedures are being followed;
- Responsibility of the applicant to address any future complaint issues, through acceptable mitigation measures;
- Quantify the number of infractions that are allowed, before suspension.

We also note that the policies refer to a 7 am opening time for the pit. The TIS had noted that shipping is being proposed commencing at 5 am. If the existing pit does not currently allow for

shipping between 5 am and 7 am, then the impacts of such a time extension on area residents is not fully addressed by the policies and procedures outlined.

Township Comment

- The traffic counts that were used for the traffic operational analysis (i.e., Level of Service, Left Turn Lane Warrant analysis) do not capture the traffic from the Pit Extension. The peak hour counts on Darby Road do not show any heavy trucks during the peak hours analyzed. Considering that CRH has acknowledged that there have been 40 two-way truck trips during peak hours and that this will be the maximum in any given hour, a sensitivity analysis should be provided in the TIS to consider this maximum. This may impact the external road improvements required on both Darby Road and Highway 93. The TIS proposes widenings along Darby Road and a recovery taper along Highway 93 to facilitate turning movements at the intersection of Darby Road / Highway 93. The Township requests that:
 - a sensitivity analysis be provided in the TIS to consider this maximum. This may impact the external road improvements required on both Darby Road and Highway 93;

Crozier Comment

The Memo suggests that the maximum truck volumes, acknowledged by CRH, occur at a very low frequency, and therefore should not be used for analyzing traffic impacts.

The Memo notes that the TIS did increase the northbound left turn volumes, to be conservative, and that a left turn lane was not warranted. Highway 93 is within MTO's jurisdiction, including approvals of the required improvements to the Highway.

Burnside Response

In our experience, the assessment of traffic impacts is typically based on the 30th highest volume. Since the TIS did not provide an assessment of the frequency of the maximum volumes, our recommendation has not been fully addressed.

We recommend that the sensitivity analysis as originally recommended of the impacts of these maximum volumes be completed, unless comments can be provided by the MTO that this is not required.

Township Comment

The Township requests that:

o comments / approvals be provided from the Ministry of Transportation (MTO) for the TIS and proposed highway improvements;

Crozier Comment

The Memo noted that the MTO has provided planning approval of the TIS and the proposed improvements to Highway 93, subject to the necessary Encroachment Permit being issued by the MTO.

Burnside Response

Burnside recommends that CRH is to notify the Township and Burnside when the Encroachment Permit has been issued by the MTO.

Township Comment

The Township requests that:

 CRH enter into a Road Improvement Agreement for Darby Road with the Townships of Tiny and Tay, which would include, but not be limited to, detail engineering design drawings and securities.

Crozier Comment

The Memo notes that CRH is prepared to enter into the necessary Road Improvement Agreement with the Townships, including posting applicable securities.

Burnside Response

Burnside recommends that the detailed engineering design drawings and security estimates be provided to both Townships and Burnside for review.

Township Comment

• The TIS concludes that left turn lane warrants are not met on Highway 93, based on the low percentages of left turn movements at the intersection of Darby Road / Highway 93. The analysis should be based on equivalent cars (i.e., factor of 2 for large trucks), together with a more realistic estimate of peak period turns that may be generated from the pit. Left turn lane warrants may be met under such conditions. The Township requests that the TIS include an analysis based on equivalent cars (i.e., factor of 2 for large trucks).

Crozier Comment

The Memo notes that MTO guidelines do not specifically require truck percentages to be adjusted and that left turning trucks will be empty, and therefore subject to normal acceleration rates.

Burnside Response

In our experience it is good practice to apply a truck adjustment factor for establishing warrants where truck turning may be a consideration. Transportation Association of Canada (TAC) guidelines (Geometric Design Guide for Canadian Roads, June 2017), species longer gap requirements for truck turning maneuvers as compared to cars.

We recommend that the analysis be adjusted based on equivalent cars (i.e., factor of two for large trucks), unless comments can be provided by the MTO that this is not required.

<u>Noise</u>

Township Comments

CRH has committed to making the following amendments to the proposed Teedon Pit Extension Site Plans:

 To include the equipment list and its associated maximum sound power under the section titled "Equipment to be used Onsite and Noise/Air Mitigation". In addition, this equipment list and sound power readings are identified in Section 2.0 of the Acoustical Assessment Report.

In addition, CRH noted that they had submitted a minor site plan amendment to the MNRF to permit the construction of the acoustic berms and restrict the location of the genset trailer on-site so that this can be completed immediately. Confirmation from MNRF in this regard is requested by the Township to confirm that this has been completed.

Burnside Response

CRH has added an Equipment List Table with Note 26 of the ARA Site Plan, which lists the equipment / maximum sound power to be used for pit operations.

CRH has provided an amended Operational Plan (approved by the MNRF) prepared by Skelton, Brumwell & Associates Inc., which showed that the MNRF had approved changes on June 13, 2019 for the construction of acoustic berms and restricted location of the genset trailer on-site.

Site Operations

Township Comments

CRH has committed to making the following amendments to the proposed Teedon Pit Extension Site Plans:

- Revising the proposed Site Plans to prohibit the storage of asphalt in the extension.
- Revising the Operational Plan add a new note to the rehabilitation page to state that "no fill shall be imported and disposed of at the site other than to establish slopes as specified in the Rehabilitation Plan."

Burnside Response

CRH has added Note 50 in the ARA Site Plan, which prohibits the storage of asphalt on the site.

Note 51 has been amended to say "Clean Inert Fill may only be imported..."

CRH has added Note 53 in the ARA Site Plan, which prohibits the disposal of imported fill other than to establish slopes as specified in the Rehabilitation Plan.

Project No.: 300031221.0000

We trust that you will find the above to be in order. Should you have any questions, please contact the undersigned.

Yours truly,

R.J. Burnside & Associates Limited

Cecil Gratrix, C.E.T., rcca Senior Project Manager

CG:sc

Henry Centen, P.Eng. Senior Transportation Engineer

Henry Cartan

Other than by the addressee, copying or distribution of this document, in whole or in part, is not permitted without the express written consent of R.J. Burnside & Associates Limited.

201102_Teedon_SiteOperations_CRH Sept 14 2020_ReviewLetter_Final 02/11/2020 3:27 PM



130 Balm Beach Road West Tiny, Ontario L0L 2J0 (705) 526-4204 | 1-866-939-8469 www.tiny.ca

December 22, 2020

Ministry of Natural Resources and Forestry 2284 Nursery Road Midhurst, ON L9X 1N8 Attention: Robert Herbst (robert.herbst@ontario.ca)

CRH Canada Group Inc. 2300 Steeles Avenue West, 4th Floor Concord, ON L4K 5X6

Attention: Jessica Ferri (Jessica.ferri@ca.crh.com)

RE: Aggregate Resource Act Application – Teedon Pit Extension

Township of Tiny Updated Comments

North Part of Lot 80, Concession 1 O.S. (Roll #1-029-00)

Thank you for the opportunity to provide updated comments on the proposed Teedon Pit Extension Application under the Aggregate Resources Act (ARA).

The Township submitted an objection letter dated March 25, 2019, on the ARA application. The letter focused on comments in the following areas: hydrogeological, traffic, noise, site operation, and natural heritage. The Township submitted a subsequent letter dated January 29, 2020.

The Township has been reviewing and commenting on all new submission material from the applicant in their effort to address the Township's objection comments. The Township has retained R. J. Burnside & Associates Limited (Burnside), Aercoustics Engineering Limited (Aercoustics), and the Severn Sound Environmental Association (SSEA) to peer review all technical material in support of the application.

Confidential Planning & Development Report PD-042-20 regarding the Teedon Pit Extension Application was presented to Council at the Committee of the Whole meeting held on November 30, 2020. This Report provides the background relative to the Township's review of the application and the current status of comments. As a result of this Report, Council Recommendation #000/20 was approved at the December 21, 2020 Council Meeting and reads:

"WHEREAS the Committee of the Whole considered Confidential Planning & Development Report PD-042-20 regarding the Teedon Pit Extension Application by CRH Canada Group Inc.;

NOW THEREFORE BE IT RESOLVED THAT staff be directed to provide comments to the Ministry of Natural Resources and Forestry and CRH Canada Group Inc. as outlined in PD-042-20."

Council Recommendation #000/20 and Confidential Planning & Development Report PD-042-20 are attached to this letter for your information.

Although the majority of the Township's comments have been addressed, the Township is not satisfied that all traffic matters related to this proposal have been satisfactorily dealt with for the reasons stated in this letter.

TRAFFIC COMMENTS

Burnside has completed a peer review of the Traffic Impact Study (TIS) prepared by C.F. Crozier & Associates Inc. (Crozier), dated October 4, 2019 and the Comment Response Memo, dated October 2, 2020, prepared Crozier.

The Township's concerns regarding traffic have not been addressed as follows:

- The Township requests that the CRH policies and procedures be expanded to add the following items:
 - a) commit to ongoing periodic monitoring of on-site and off-site operations, and reporting to the Township, to confirm that the provisions of the policies and procedures are being followed;
 - b) commit to address any future complaint issues, through acceptable mitigation measures; and
 - c) Quantify the number of infractions that are allowed, before driver suspension.

The policies refer to a 7 am opening time for the pit. The TIS had noted that shipping is being proposed commencing at 5 am. If the existing pit does not currently allow for shipping between 5 am and 7 am, then the impacts of such a time extension on area residents is not fully addressed by the policies and procedures outlined.

- The traffic counts that were used for the traffic operational analysis (i.e., Level of Service, Left Turn Lane Warrant analysis) do not capture the traffic from the Pit Extension. The peak hour counts on Darby Road do not show any heavy trucks during the peak hours analyzed. Considering that CRH has acknowledged that there have been 40 two-way truck trips during peak hours and that this will be the maximum in any given hour, the Township requested in the January 29, 2020 letter that a sensitivity analysis be provided in the TIS to consider this maximum. This may impact the external road improvements required on both Darby Road and Highway 93. The TIS proposes road widenings along Darby Road and a recovery taper along Highway 93 to facilitate turning movements at the intersection of Darby Road and Highway 93. The additional information provided by Crozier in their Memo dated October 2, 2020 does not satisfactorily address this concern. The Township maintains that a sensitivity analysis of these maximum volumes be completed, unless comments are provided by the MTO that this is not required.
- The TIS concludes that left turn lane warrants are not met on Highway 93, based on the low percentages of left turn movements at the intersection of Darby Road and Highway 93. The analysis should be based on equivalent cars (i.e., factor of 2 for large trucks), together with a more realistic estimate of peak period turns that may be generated from the pit. Left turn lane warrants may be met under such conditions. The Township requested in the January 29, 2020 letter that the TIS include an analysis based on equivalent cars (i.e., factor of 2 for large trucks). In Burnside's experience, it is good practice to apply a truck adjustment factor for establishing warrants where truck turning may be a consideration. Transportation Association of Canada (TAC) guidelines (Geometric Design Guide for Canadian Roads, June 2017), specifies longer gap requirements for truck turning maneuvers as compared to cars. The additional information

provided by Crozier in their Memo dated October 2, 2020 does not satisfactorily address this concern. The Township maintains that the analysis be adjusted based on equivalent cars (i.e., factor of two for large trucks), unless comments can be provided by the MTO that this is not required.

- The Township requests that CRH notify the Township and Burnside when the Encroachment Permit has been issued by the MTO.
- The Township requests that CRH enter into a Road Improvement Agreement for Darby Road with the Townships of Tiny and Tay, which would include, but not be limited to, detailed engineering design drawings and securities.

Sincerely,

THE CORPORATION OF THE TOWNSHIP OF TINY

Shawn Persaud, BA, MCIP, RPP, Director of Planning & Development Tim Leitch, P. Eng. Director of Public Works

CC: Members of Council for the Township of Tiny

Sue Walton, Director of Legislative Services/Clerk for the Township of Tiny (swalton@tiny.ca)
David Parks, Director of Planning, Economic Development and Transit (David.Parks@simcoe.ca)

Cecil Gratrix, R. J. Burnside & Associates (Cecil.Gratrix@rjburnside.com)

Julie Cayley, Severn Sound Environmental Association (<u>JCayley@severnsound.ca</u>)

Hon. Bruce Stanton, MP, North Simcoe (<u>bruce.stanton@parl.gc.ca</u>) Hon. Jill Dunlop, MPP, Simcoe North (<u>jill.dunlopco@pc.ola.org</u>)