

SEQUENCE OF OPERATIONS & PROGRESSIVE REHABILITATION

In General:

- Phases do not represent any specific or equal time period. Two phases may be operated at any one time when transitioning from one phase to the next.
- Rehabilitation will be progressive and proceed as shown on Drawing 4 of 4, Progressive Rehabilitation and Final Rehabilitation Plan.
- This pit shall be operated in one area with one bench above water varying across the site from approximately 2 to 3 metres and one bench below water of 11.5 metres (maximum depth to 288.0m). The current agricultural uses shall continue on this site as long as possible during pit operations.
- Operations shall proceed in the directions of the arrows shown.
- As the limit of extraction is reached the perimeter areas shall be rehabilitated to agricultural and natural environment uses as outlined on the Progressive Rehabilitation and Final Rehabilitation Plan.
- Notwithstanding the operational and rehabilitation notes, demand for certain products or blending of materials may require minor deviation in the extraction and rehabilitation sequences.
- Future Area B and Future Area C may be extracted at a later date pending on the results of hydrogeological and geotechnical investigations. See drawings 3 of 4, Consultant Recommendations. Should Area B and/or Area C be determined to be soils to extract, a minor site plan amendment to the site plan shall be prepared to describe the Operational and Rehabilitation details based on the outcome of the investigations.

AREA A:

- All fencing shall be constructed on the north and east boundaries prior to the commencement of stripping.
- Stripped materials shall be used to construct noise attenuation barriers in the processing areas as described in the Noise Feasibility Study Recommendations on Drawing 3 of 4.
- Excavation shall commence in the southern part of Area A and shall initially proceed southerly, then easterly.
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Phase 1:

- Below water extraction shall follow above water extraction.
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Phase 2:

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Phase 3:

- Below water extraction shall follow above water extraction.
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OPERATIONAL NOTES:

- SETBACKS:** Extraction setbacks shall be 30m along the Sideroad 7 boundary. All other setbacks are NETR setbacks as recommended by Aquatic Wildlife Services and are as shown. There are no extraction setbacks adjacent to the southern boundary of Future Area B or adjacent to the 70m fence around Arch. Location 2. See overrides. Prior to the commencement of any operations, all setback extraction lines shall be delineated at intervals of 1.2m.
- MAXIMUM DEPTH OF EXTRACTION:** The maximum depth of extraction shall be approximately to the 300 elevation above water in one lift. The maximum depth of extraction below water shall be to the 288m level.
- SOLES/ROCKS:** Final petroleum sludge above water shall be constructed to a depth of 1.2m (to the top of the rock) and shall be created by bulldozing with onsite materials. Final 4:1 slopes shall be created with a minimum of 0.15 metres (6 inches) of topsoil and shall be seeded with a grass-legume mixture such as Intergrate and White Clover. Bare water slopes and drainage areas shall also be constructed to a slope of 1:1 to enhance shoreline diversity.
- ENTRANCE/EXIT/GATE:** A chain link or pipe wire gate, a minimum of 1.2m high shall be constructed and maintained at the pit entrance/exit in the southeast corner. The form entrance shown on the 70m Arch. boundary shall only be used for farming operations and shall be gated. All gates shall be kept closed when the pit is not in operation.
- FENCING:** Post and wire fencing (minimum height 1.2 metres) shall be constructed and maintained on the north and east licensed boundary as shown. No fencing is proposed for the any other boundaries until operations commence in Phase 2. The licence boundary around Arch. Location 2 shall then be fenced. See overrides. Unfenced boundaries shall be delineated with highly visible marker posts, minimum height 1.2m, at the corners and at intervals of 1.2m. Signs shall be placed on the marker posts indicating "Danger: Deep Water, No Trespassing". Fencing may be moved inside the licence boundary in order to avoid any damage to the existing tree screens. See overrides.
- TOPSOIL/OVERBURDEN STORAGE:** All topsoil and overburden shall be separately stripped. Stockpiles shall not be located within 30m of any boundary or within any NETR setback area. All topsoil, subsoil and overburden stockpiles shall be a maximum of 8 metres in height, graded to stable slopes and seeded to prevent erosion. Also see the Noise Consultant Recommendations on Drawing 3 of 4, "Consultant Recommendations" for noise attenuation barrier locations and heights. All topsoil stripped in the operation of this site shall be used in the rehabilitation of this site.
- VEGETATION:** Vegetation shall be maintained on all topsoil stockpiles and rehabilitated areas. Any vegetation that dies or is otherwise damaged shall be reseeded or replanted.
- AGGREGATE STOCKPILES:** No aggregate stockpiles shall be located within 30 metres of any licensed boundary or within any NETR setback area. Aggregate stockpiles pulled from the water shall be stockpiled along the shoreline before being moved to the processing area. Aggregate stockpiles of processed materials shall be located in the processing area and be a maximum of 15 metres in height.
- EXCAVATION EQUIPMENT:** Equipment to be utilized on this site shall include scrapers, bulldozers, loaders, dump trucks, portable crushing equipment, a wash plant and excavators. No equipment shall be parked, stored or installed within 30 metres of any licensed boundary or within any NETR setback area.
- NOISE, DUST OR GROUNDWATER INTERFERENCE PROBLEMS:** Should noise, dust or groundwater interference complaints be received, the licensee shall take appropriate measures as deemed necessary by the Ministry of the Environment to rectify the problem(s).
- DEMURRING:** No demurring shall take place on this site. Washing of aggregate materials shall take place on this site.
- SCRAP STORAGE:** All scrap on the site shall be collected and stored in the scale house area. All scrap shall be removed from the site on an ongoing basis.
- PETROLEUM STORAGE:** Petroleum products may be stored in the scale house area shall be stored in compliance with the requirements of the Technical Standards and Safety Act. Any spills shall be removed and disposed of at a facility approved by the Ministry of the Environment. See the Spills Plan on this page. Mobile fuel tanks shall be the new generation engineered double-walled variety with vacuum sealed valves.
- BUILDINGS:** A scale, scale house and accessory buildings may be constructed within the scale and scale house area area.
- DRAINAGE:** Surface drainage shall be by parcellation into the pit floor. Any rehabilitation is completed the site shall be graded to drain towards the pond as shown on drawing 4 of 4, "Progressive Rehabilitation & Final Rehabilitation Plan". There will be no offsite drainage from operational areas during or after the site is rehabilitated.
- EXTRACTION AREA:** The extraction area is 51.2 hectares. (Area A: 29.5 ha, Future Area B: 10.1 ha, Future Area C: 11.6 ha) NOTE: At no time shall the extraction area above water exceed 4 ha in size.
- TONNAGE CONDITION:** The maximum amount of aggregate that may be removed in any calendar year is 150,000 tonnes.
- WATER TABLE ELEVATION:** The elevation of the water table varies from +/- 288m ASL TO 301m ASL. The elevation of the water table was taken from Figure 3 in this report by GSS Engineering Consultants Ltd. (September, 2014). Title: "Hydrogeologic Investigation - Kinghurst Aggregates Ltd. - (Taylor Pit)". The final pond elevation after rehabilitation is completed will be approximately 289.5m ASL.
- HOURS OF OPERATION:** Hours of operation shall be Monday to Friday, between the hours of 7 am to 6 pm and on Saturdays, between the hours of 8 am to 12 noon. No crushing, manufacturing, crushing, screening, or any other activity shall occur only Monday to Friday, between the hours of 7:00 a.m. and 6:00 p.m. Shipping may occur on Saturdays, between the hours of 8 am to 12 noon. No crushing is permitted on Saturdays. No activity will occur on Sundays or statutory holidays. Trees along the north boundary shall remain as a visual screen.
- CONSULTANT RECOMMENDATIONS:** Consultant Recommendations are shown on Drawing 3 of 4, "Consultant Recommendations".

SPILLS PLAN

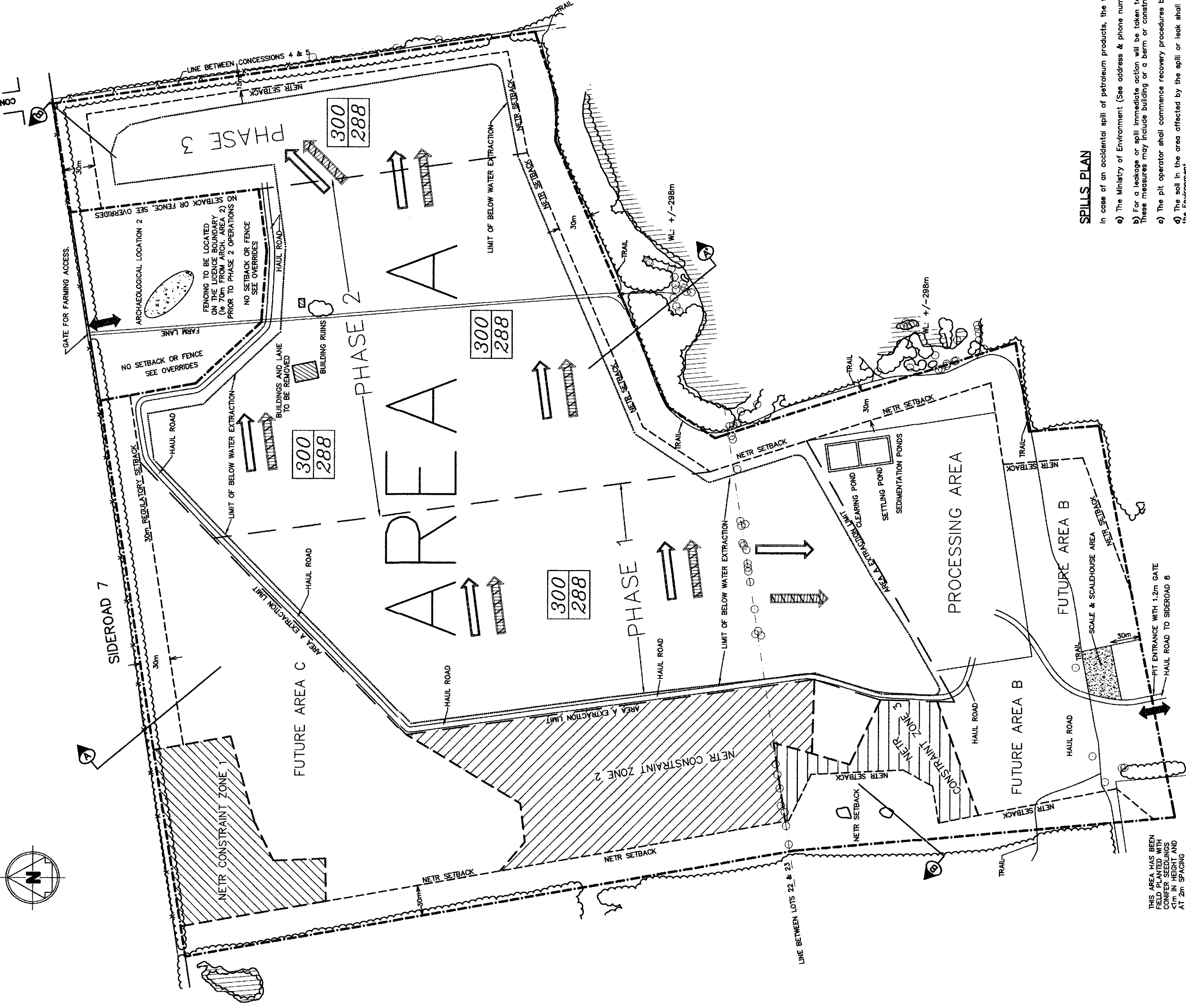
In case of an accidental spill of petroleum products, the following contingency plan will be activated:

- The Ministry of Environment (See address & phone number below) and surrounding landowners will be notified.
- For a leakage or spill, immediate action will be taken to stop it. As the spill occurs, these measures will be taken to prevent spreading. These measures may include building or a berm or construction of a ditch, for instance.
- The pit operator shall commence recovery procedures by collecting the spilled substance into containers.
- The soil in the area affected by the spill or leak shall be removed and disposed of at a location prescribed by the Ministry of the Environment.

Ministry of Environment, Southwest Regional Office
 733 Exeter Road, 2nd Floor
 London, Ontario, N6E 1L3
 Spills Action Centre: 1-800-268-6060

Site Plan Overrides of the Operational Standards

- STANDARD 5.1:** Fencing shall only be constructed and maintained on the north boundary where shown and on the east boundary from Arch. Location 2. A fence shall not initially be constructed around Arch. Location 2 to allow unimpeded farming operation. The fence around this area (i.e. the 70m fence) shall be constructed when operations (i.e. stripping) commence in Phase 2. The fence shall be constructed and maintained on the north and east boundaries of the area (i.e. the 70m fence) at the corners and at intervals of 1.2m. Signs shall be placed on the marker posts indicating "Danger: Deep Water, No Trespassing".
- STANDARD 5.10.1:** Excavation setbacks have been reduced to zero metres adjacent to the south boundary where shown and around the 70m perimeter of the Arch. Location 2. Excavation setbacks are shown on the drawings.



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GRAVEL PIT

PART LOTS 22 & 23, CONCESSION 5
 TOWNSHIP OF CHATSWORTH (formerly Sullivan Twp)
 COUNTY OF GREY

OPERATIONAL PLAN
 DRAWING 2 of 4

SCALE: 1:2500
 150 100 50 0 100

No.	AMENDMENT	DATE