

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 7827-C9BMH6
Issue Date: December 12, 2022

Humarcin Residents Organization
2015 Long Lake Road
P.O. Box 40048
Greater Sudbury, Ontario
P3E 0B2

Site Location: Evergreen Estates Trailer Park
1622 Pioneer Road
Part 1, Plan 53R-16243, Parcel 51648 S.E.S.,
Part 2, Plan 53R-16428, Remainder of Parcel 26876 S.E.S.,
Part 3, Plan 53R-16428, Remainder of Parcel 1510 S.E.S.,
Part 4, Plan 53R-16428, Remainder of Parcel 34134 S.E.S.,
Being part of Lot 12, Concession VI,
Geographic Township of Dill,
City of Greater Sudbury, District of Sudbury

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

upgrades to the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 14,712 Litres per day (L/day), to service the existing year-around Evergreen Estates Trailer Park consisting of forty six (46) existing serviced trailer sites, located at 1622 Pioneer Road, in the City of Greater Sudbury, District of Sudbury, consisting of the following:

PROPOSED WORKS

New Proposed Filter Beds

the establishment of Works for the treatment and subsurface disposal of domestic sewage, consisting of the replacement of five (5) existing individual filter beds, consisting of the following:

Works No. 4 - Units 7 and 9

Lot 8

- one (1) approximately 14 m long and 7.5 m wide partially raised filter bed, rated at a maximum design capacity of 2,200 L/day, located on Lot 8, having a top stone area of approximately 45 m² (approximately 9 m by 5 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 105 m² (approximately 14 m by 7.5 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and a total of 26 m of 100 mm diameter perforated distribution piping installed in four (4) - 6.5 m long parallel runs evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, having a minimum separation distance of 900 mm between the bottom of the clear stone layer and the high groundwater table, rock or soil with a percolation time greater than 50 min/cm, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 6 - Unit 14, 18, 20 and 21

Lot 14

- one (1) approximately 25 m long and 9.5 m wide partially raised filter bed, rated at a maximum design capacity of 4,950 L/day, located on Lot 16, having a top stone area of approximately 98 m² (approximately 14 m by 7 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 238 m² (approximately 25 m by 9.5 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and a total of 64 m of 100 mm diameter perforated distribution piping installed in five (5) - 12.8 m long parallel runs evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, having a minimum separation distance of 900 mm between the bottom of the clear stone layer and the high groundwater table, rock or soil with a percolation time greater than 50 min/cm, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 15 - Units 34 and 36

Lot 35

- one (1) approximately 17 m long and 7.5 m wide partially raised filter bed, rated at a maximum design capacity of 2,750 L/day, located on Lot 35, having a top stone area of approximately 55 m² (approximately 11 m by 5 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 128 m² (approximately 17 m by 7.5 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and a total of 39.2 m of 100 mm diameter perforated distribution piping installed in four (4) - 9.8 m long parallel runs evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, having a minimum separation distance of 900 mm between the bottom of the clear stone layer and the high groundwater table, rock or soil with a percolation time greater than 50 min/cm, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil

away from the filter bed, all in accordance with the OBC requirements;

Works No. 20 - Units 13 and 15

Lots 44 and 46

- one (1) approximately 17 m long and 7.5 m wide partially raised filter bed, rated at a maximum design capacity of 2,750 L/day, located on Lots 44 and 46, having a top stone area of approximately 55 m² (approximately 11 m by 5 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 128 m² (approximately 17 m by 7.5 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and a total of 39.2 m of 100 mm diameter perforated distribution piping installed in four (4) - 9.8 m long parallel runs evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, having a minimum separation distance of 900 mm between the bottom of the clear stone layer and the high groundwater table, rock or soil with a percolation time greater than 50 min/cm, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 30 - Unit 62 and 63

Lot 61

- one (1) approximately 14 m long and 7.5 m wide partially raised filter bed, rated at a maximum design capacity of 2,200 L/day, located on Lot 61, having a top stone area of approximately 45 m² (approximately 9 m by 5 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 105 m² (approximately 14 m by 7.5 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and a total of 26 m of 100 mm diameter perforated distribution piping installed in four (4) - 6.5 m long parallel runs evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, having a minimum separation distance of 900 mm between the bottom of the clear stone layer and the high groundwater table, rock or soil with a percolation time greater than 50 min/cm, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Removal of Existing Trailers and Existing Works Servicing the Trailers

- the removal of seven (7) existing trailers together with the existing Works servicing the removed trailers from Lots 16, 17, 35, 39, 44, 46, 50;

Removal of Existing Filter Beds

- the removal of thirteen (13) existing filter beds from Lots 7, 9, 13, 14, 15, 18, 20, 21, 34, 36, 62, 63 (two (2) existing filter beds);

Relocation of Existing Septic Tanks

- the relocation of four (4) existing septic tanks from Lots 14, 18, 20, 33;

Relocation of Existing Filter Beds

- the relocation of twelve (12) existing filter beds from Lots 10, 22, 27, 29, 38, 40, 45, 49, 50, 51, 54, 58;

EXISTING WORKS

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a total maximum design capacity of 24,470 L/day, consisting of the following:

Works No. 1 - Units 1, 55 and 56

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a total maximum design capacity of 1,650 L/day (Unit 1 - 550 L/day, Unit 55 - 825 L/day and Unit 56 - 275 L/day), servicing three (3) existing two-bedroom trailers located on Lots 1, 55 and Lot 56, consisting of the following:

Lot 1

- one (1) two-compartment septic tank, located on Lot 1, receiving raw sewage from one (1) two-bedroom trailer located on Lot 1, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to a pump chamber;
- one (1) one-compartment pump chamber, located on Lot 1, receiving effluent from the 4,500 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located on Lot 2;

Lot 56

- one (1) two-compartment septic tank, located on Lot 56, receiving raw sewage from one (1) two-bedroom trailer located on Lot 55 and one (1) two-bedroom trailer located on Lot 56, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to a pump chamber;
- one (1) one-compartment pump chamber, located on Lot 56, receiving effluent from the 4,500 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located on Lot 2;

Lot 2

- one (1) approximately 7.3 m by 26.2 m filter bed, located on Lot 2, having a top stone area of approximately 191.3 m² (approximately 7.3 m by 26.2 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 191.3 m² (approximately 7.3 m by 26.2 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 2 - Units 3 and 4

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a total maximum design capacity of 1,925 L/day (Unit 3 - 825 L/day and Unit 4 - 1,100 L/day), servicing two (2) existing three-bedroom trailers, one (1) trailer located on Lot 3 and one (1) trailer located on Lot 4, consisting of the following:

Lot 4

- one (1) two-compartment septic tank, located on Lot 4, receiving raw sewage from two (2) existing three-bedroom trailers, one (1) trailer located on Lot 3 and one (1) trailer located on Lot 4, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to a pump chamber;
- one (1) one-compartment pump chamber, located on Lot 4, receiving effluent from the 3,600 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located on Lot 2;

Lot 2

- one (1) approximately 10.4 m by 20.4 m filter bed, located on Lot 2, having a top stone area of approximately 212.2 m² (approximately 10.4 m by 20.4 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 212.2 m² (approximately 10.4 m by 20.4 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 3 - Units 5 and 6

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a total maximum

design capacity of 825 L/day (Unit 5 - 550 L/day and Unit 6 - 275 L/day), servicing two (2) existing three-bedroom trailers, one (1) trailer located on Lot 3 and one (1) trailer located on Lot 4, consisting of the following:

Lot 5

- one (1) two-compartment septic tank, located on Lot 5, receiving raw sewage from two (2) existing three-bedroom trailers, one (1) trailer located on Lot 5 and one (1) trailer located on Lot 6, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to a pump chamber;
- one (1) one-compartment pump chamber, located on Lot 5, receiving effluent from the 3,600 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located on Lot 59;

Lot 59

- one (1) approximately 6.1 m by 10.4 m filter bed, located on Lot 59, having a top stone area of approximately 63.4 m² (approximately 6.1 m by 10.4 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 63.4 m² (approximately 6.1 m by 10.4 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 4 - Units 7 and 9

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a total maximum design capacity of 825 L/day (Unit 7 - 550 L/day and Unit 9 - 275 L/day), servicing two (2) existing two-bedroom trailers, one (1) trailer located on Lot 7 and one (1) trailer located on Lot 9, consisting of the following:

Lot 7

- one (1) two-compartment septic tank, located on Lot 7, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 7, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed located on Lot 8;

Lot 9

- one (1) two-compartment septic tank, located on Lot 9, receiving raw sewage from one (1) existing

two-bedroom trailer located on Lot 9, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed located on Lot 8;

Lot 8

- one existing filter bed, located on Lot 8 (to be replaced by PROPOSED WORKS - the new filter bed to be located on Lot 8);

Works No. 5 - Units 10 and 11

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a total maximum design capacity of 825 L/day (Unit 10 - 275 L/day and Unit 11 - 550 L/day), servicing two (2) existing two-bedroom trailers, one (1) trailer located on Lot 10 and one (1) trailer located on Lot 11, consisting of the following:

Lot 10

- one (1) two-compartment septic tank, located on Lot 10, receiving raw sewage from two (2) existing two-bedroom trailers, one (1) trailer located on Lot 10 and one (1) trailer located on Lot 11, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 5.5 m by 6.7 m filter bed, located on Lot 10, having a top stone area of approximately 63.4 m² (approximately 6.1 m by 6.7 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 36.9 m² (approximately 5.5 m by 6.7 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 6 - Unit 14, 16, 18, 20, 21

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a total maximum design capacity of 1,650 L/day (Units 14, 16, 18 and 20 - each 275 L/day and Unit 21 - 550 L/day), servicing one (1) existing one-bedroom trailer located on Lot 14, three (3) existing two-bedroom trailers located on Lots 16, 18 and 20 and one (1) three-bedroom trailer located on Lot 29 , consisting of the following:

Lot 14

- one (1) two-compartment septic tank, located on Lot 14, receiving raw sewage from one (1) existing one-bedroom trailer located on Lot 14, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the

existing filter bed;

Lot 16

- one (1) two-compartment septic tank, located on Lot 16, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 16, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lot 18

- one (1) two-compartment septic tank, located on Lot 18, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 18, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lot 20

- one (1) two-compartment septic tank, located on Lot 20, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 20, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lot 21

- one (1) two-compartment septic tank, located on Lot 21, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 21, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lots 14, 16, 18, 20 and 21

- five (5) existing individual filter beds, one (1) bed located on Lot 14, one (1) bed located on Lot 16, one (1) bed located on Lot 18, one (1) bed located on Lot 20 and one (1) bed located on Lot 21 (to be replaced by PROPOSED WORKS - the new filter bed to be located on Lot 14);

Works No. 7 - Unit 13 and 15

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a total maximum design capacity of 1,375 L/day (Units 13 - 825 L/day and Unit 15 - 550 L/day), servicing one (1) existing three-bedroom trailer located on Lot 13 and one (1) existing two-bedroom trailer located on Lot 15, consisting of the following:

Lot 13

- one (1) two-compartment septic tank, located on Lot 13, receiving raw sewage from one (1) existing

two-bedroom trailer located on Lot 13, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lot 15

- one (1) two-compartment septic tank, located on Lot 15, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 15, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- two (2) existing individual filter beds, one (1) bed located on Lot 13 and one (1) bed located on Lot 15 (to be replaced by PROPOSED WORKS - the new filter bed to be located on Lots 44 and 46);

Works No. 8 - Unit 19

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 550 L/day, servicing one (1) existing one-bedroom trailer located on Lot 19, consisting of the following:

Lot 19

- one (1) two-compartment septic tank, located on Lot 19, receiving raw sewage from one (1) existing one-bedroom trailer located on Lot 19, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 1.3 m by 1.4 m filter bed, located on Lot 12, having a top stone area of approximately 1.8 m² (approximately 1.3 m by 1.4 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 1.8 m² (approximately 1.3 m by 1.4 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 9 - Unit 22

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 275 L/day, servicing one (1) existing two-bedroom trailer located on Lot 22, consisting of the following:

Lot 22

- one (1) two-compartment septic tank, located on Lot 22, receiving raw sewage from one (1) existing one-bedroom trailer located on Lot 22, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the

existing filter bed;

- one (1) approximately 3.7 m by 4.3 m filter bed, located on Lot 22, having a top stone area of approximately 15.9 m² (approximately 3.7 m by 4.3 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 15.9 m² (approximately 3.7 m by 4.3 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 10 - Unit 23

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 275 L/day, servicing one (1) existing three-bedroom trailer located on Lot 23, consisting of the following:

Lot 23

- one (1) two-compartment septic tank, located on Lot 23, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 23, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing pump chamber;
- one (1) one-compartment pump chamber, located on Lot 23, receiving effluent from the 3,600 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed;
- one (1) approximately 4.9 m by 9.1 m filter bed, located on Lot 23, having a top stone area of approximately 44.6 m² (approximately 4.9 m by 9.1 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 44.6 m² (approximately 4.9 m by 9.1 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 11 - Units 25 and 26

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 275 L/day, servicing one (1) existing three-bedroom trailer located on Lot 25, consisting of the

following:

Lots 25 and 26

- one (1) two-compartment septic tank, located on Lots 25 and 26, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 25, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 6.7 m by 10.1 m filter bed, located on Lot 26, having a top stone area of approximately 67.7 m² (approximately 6.7 m by 10.1 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 67.7 m² (approximately 6.7 m by 10.1 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 12 - Unit 27

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 1,375 L/day, servicing one (1) existing three-bedroom trailer located on Lot 27, consisting of the following:

Lot 27

- one (1) two-compartment septic tank, located on Lot 27, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 27, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 4.3 m by 5.2 m filter bed, located on Lot 27, having a top stone area of approximately 22.4 m² (approximately 4.3 m by 5.2 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 22.4 m² (approximately 4.3 m by 5.2 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 13 - Unit 28

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design

capacity of 275 L/day, servicing one (1) existing three-bedroom trailer located on Lot 28, consisting of the following:

Lots 28 and 29

- one (1) two-compartment septic tank, located on Lot 28, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 28, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 7.0 m by 8.2 m filter bed, located on Lot 29, having a top stone area of approximately 57.4 m² (approximately 7.0 m by 8.2 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 57.4 m² (approximately 7.0 m by 8.2 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 14 - Units 30, 31, 32 and 33

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 1,920 L/day (Units 30, 31 and 32 - each 550 L/day and Unit 33 - 275 L/day), servicing one (1) existing three-bedroom trailer located on Lot 30 and three (3) existing two-bedroom trailers located on Lots 31, 32 and 33, consisting of the following:

Lot 30

- one (1) two-compartment septic tank, located on Lot 30, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 30, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing pump chamber;
- one (1) one-compartment pump chamber, located on Lot 30, receiving effluent from the 3,600 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located north-west of Lots 30, 31, 32 and 33;

Lot 31

- one (1) two-compartment septic tank, located on Lot 31, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 31 and one (1) existing two-bedroom trailer located on Lot 32, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter

installed on the outlet pipe, discharging the effluent to the existing pump chamber;

- one (1) one-compartment pump chamber, located on Lot 31, receiving effluent from the 3,600 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located north-west of Lots 30, 31, 32 and 33;

Lot 33

- one (1) two-compartment septic tank, located on Lot 33, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 33, having a minimum working capacity of 4,000 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing pump chamber;
- one (1) one-compartment pump chamber, located on Lot 33, receiving effluent from the 3,600 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located north-west of Lots 30, 31, 32 and 33;

Filter Bed located north-west of Lots 30, 31, 32 and 33

- one (1) approximately 14.6 m by 25.6 m filter bed, located on Lot 29, having a top stone area of approximately 373.8 m² (approximately 14.6 m by 25.6 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 373.8 m² (approximately 14.6 m by 25.6 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 15 - Units 34, 35 and 36

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 1,650 L/day (Units 34, 35 and 36 - each 550 L/day), servicing one (1) existing two-bedroom trailer located on Lot 33, one (1) existing on-bedroom trailer located on Lot 34 and one (1) existing three-bedroom trailer located on Lot 36, consisting of the following:

Lot 34

- one (1) two-compartment septic tank, located on Lot 34, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 34, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the

existing filter bed;

Lot 35

- one (1) two-compartment septic tank, located on Lot 35, receiving raw sewage from one (1) existing one-bedroom trailer located on Lot 35, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lot 36

- one (1) two-compartment septic tank, located on Lot 33, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 33, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lots 34, 35 and 36

- three (3) exiting individual filter beds, one (1) bed located on Lot 34, one bed located on Lot 35 and one (1) bed located on Lot 36 (to be replaced by PROPOSED WORKS - the new filter bed to be located on Lot 35);

Works No. 16 - Unit 37

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 550 L/day, servicing one (1) existing two-bedroom trailer located on Lot 37, consisting of the following:

Lot 37

- one (1) two-compartment septic tank, located on Lot 37, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 37, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 6.4 m by 11.0 m filter bed, located on Lot 27, having a top stone area of approximately 70.4 m² (approximately 6.4 m by 11.0 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 70.4 m² (approximately 6.4 m by 11.0 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 17 - Unit 38

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 275 L/day, servicing one (1) existing two-bedroom trailer located on Lot 38, consisting of the following:

Lot 38

- one (1) two-compartment septic tank, located on Lot 38, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 38, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lots 38 and 39

- one (1) approximately 4.6 m by 7.0 m filter bed, located on Lot 27, having a top stone area of approximately 32.2 m² (approximately 4.6 m by 7.0 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 32.2 m² (approximately 4.6 m by 7.0 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 18 - Units 39 and 40

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 550 L/day, servicing one (1) existing owner's residence located on Lot 39 and one (1) existing two-bedroom trailer located on Lot 40, consisting of the following:

Lot 39

- one (1) two-compartment septic tank, located on Lot 39, receiving raw sewage from one (1) existing owner's residence located on Lot 39, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lot 40

- one (1) two-compartment septic tank, located on Lot 40, receiving raw sewage from one (1) two-bedroom trailer located on Lot 40, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lot 39

- one (1) approximately 4.6 m by 7.3 m filter bed, located on Lot 27, having a top stone area of approximately 33.6 m² (approximately 4.6 m by 7.3 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 33.6 m² (approximately 4.6 m by 7.3 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 19 - Units 41 and 43

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 1,100 L/day (Unit 41 - 275 L/day and Unit 43 - 825 L/day), servicing one (1) two-bedroom trailer located on Lot 41 and one (1) existing three-bedroom trailer located on Lot 43, consisting of the following:

Lot 41

- one (1) two-compartment septic tank, located on Lot 41, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 41, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing pump chamber;
- one (1) one-compartment pump chamber, located on Lot 41, receiving effluent from the 4,500 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located on Lot 42;

Lot 43

- one (1) two-compartment septic tank, located on Lot 43, receiving raw sewage from one (1) three-bedroom trailer located on Lot 43, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing pump chamber;
- one (1) one-compartment pump chamber, located on Lot 43, receiving effluent from the 3,600 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located on Lot 42;

Lot 42

- one (1) approximately 9.1 m by 18.6 m filter bed, located on Lot 42, having a top stone area of approximately 169.3 m² (approximately 9.1 m by 18.6 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 169.3 m² (approximately 9.1 m by 18.6 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 20 - Units 44 and 46

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 1,375 L/day (Unit 44 - 550 L/day and Unit 46 - 825 L/day), servicing one (1) two-bedroom trailer located on Lot 44 and one (1) existing three-bedroom trailer located on Lot 46, consisting of the following:

Lot 44

- one (1) two-compartment septic tank, located on Lot 44, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 41, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed located on Lot 46;

Lot 46

- one (1) two-compartment septic tank, located on Lot 46, receiving raw sewage from one (1) three-bedroom trailer located on Lot 46, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing pump chamber;
- one (1) one-compartment pump chamber, located on Lot 46, receiving effluent from the 4,500 L septic tank, having a minimum working capacity of 473 L, housing one (1) 0.5 hp submersible dosing effluent pump, complete with a watertight access cover, discharge piping and level control float switches, including a high-level float switch connected to an audible and visual alarm, discharging to the existing filter bed located on Lot 46;

Lot 44

- one existing filter bed, located on Lot 44 (to be replaced by PROPOSED WORKS - the new filter bed to be located on Lot 46);

Works No. 21 - Units 45 and 47

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 825 L/day (Unit 45 - 550 L/day and Unit 47 - 275 L/day), servicing one (1) two-bedroom trailer

located on Lot 45 and one (1) existing two-bedroom trailer located on Lot 47, consisting of the following:

Lot 45

- one (1) two-compartment septic tank, located on Lot 45, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 45, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed located on Lot 45;

Lots 45 and 47

- one (1) two-compartment septic tank, located on Lots 45 and 47, receiving raw sewage from one (1) two-bedroom trailer located on Lot 47, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed located on Lot 45;

Lot 45

- one (1) approximately 4.6 m by 7.3 m filter bed, located on Lot 45, having a top stone area of approximately 33.6 m² (approximately 4.6 m by 7.3 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 33.6 m² (approximately 4.6 m by 7.3 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 22 - Unit 49

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 275 L/day, servicing one (1) three-bedroom trailer located on Lot 49, consisting of the following:

Lot 49

- one (1) two-compartment septic tank, located on Lot 49, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 49, having a minimum working capacity of 3,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 4.9 m by 5.2 m filter bed, located on Lot 49, having a top stone area of approximately 25.5 m² (approximately 4.9 m by 5.2 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 25.5 m² (approximately 4.9 m by 5.2 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a

minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 23 - Unit 50

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 275 L/day, servicing one (1) three-bedroom trailer located on Lot 50, consisting of the following:

Lot 50

- one (1) two-compartment septic tank, located on Lot 50, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 50, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 4.9 m by 5.2 m filter bed, located on Lot 50, having a top stone area of approximately 25.5 m² (approximately 4.9 m by 5.2 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 25.5 m² (approximately 4.9 m by 5.2 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 24 - Unit 51

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 275 L/day, servicing one (1) three-bedroom trailer located on Lot 51, consisting of the following:

Lot 51

- one (1) two-compartment septic tank, located on Lot 51, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 51, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 5.2 m by 5.5 m filter bed, located on Lot 51, having a top stone area of approximately 28.6 m² (approximately 5.2 m by 5.5 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 28.6 m² (approximately 5.2 m by 5.5 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any

direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 25 - Unit 52

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 550 L/day, servicing one (1) three-bedroom trailer located on Lot 52, consisting of the following:

Lot 52

- one (1) two-compartment septic tank, located on Lot 52, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 52, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 5.2 m by 5.2 m filter bed, located on Lot 51, having a top stone area of approximately 27.0 m² (approximately 5.2 m by 5.2 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 27.0 m² (approximately 5.2 m by 5.2 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 26 - Unit 53

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 275 L/day, servicing one (1) two-bedroom trailer located on Lot 53, consisting of the following:

Lot 53

- one (1) two-compartment septic tank, located on Lot 53, receiving raw sewage from one (1) existing two-bedroom trailer located on Lot 53, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 5.2 m by 11.6 m filter bed, located on Lot 51, having a top stone area of approximately 60.3 m² (approximately 5.2 m by 11.6 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 60.3 m² (approximately 5.2 m by 11.6 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the

filter bed, all in accordance with the OBC requirements;

Works No. 27 - Unit 54

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 550 L/day, servicing one (1) three-bedroom trailer located on Lot 54, consisting of the following:

Lot 54

- one (1) two-compartment septic tank, located on Lot 54, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 54, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 8.0 m by 8.2 m filter bed, located on Lot 51, having a top stone area of approximately 65.6 m² (approximately 8.0 m by 8.2 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 65.6 m² (approximately 8.0 m by 8.2 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 28 - Unit 58

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 550 L/day, servicing one (1) two-bedroom trailer located on Lot 58, consisting of the following:

Lot 58

- one (1) two-compartment septic tank, located on Lot 58, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 58, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 6.1 m by 10.4 m filter bed, located on Lot 58, having a top stone area of approximately 63.4 m² (approximately 6.1 m by 10.4 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 63.4 m² (approximately 6.1 m by 10.4 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the

filter bed, all in accordance with the OBC requirements;

Works No. 29 - Unit 60

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 550 L/day, servicing one (1) two-bedroom trailer located on Lot 60, consisting of the following:

Lot 60

- one (1) two-compartment septic tank, located on Lot 60, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 60, having a minimum working capacity of 3,600 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- one (1) approximately 4.3 m by 10.4 m filter bed, located on Lot 60, having a top stone area of approximately 44.7 m² (approximately 4.3 m by 10.4 m and a minimum 300 mm thick layer of clear stone meeting OBC specifications), an imported filter sand layer base area of approximately 44.7 m² (approximately 4.3 m by 10.4 m and a minimum 750 mm thick layer of imported filter sand meeting OBC specifications) and 100 mm diameter perforated distribution piping installed in parallel runs spaced 0.9 m apart from centre to centre, evenly spaced in the 300 mm thick clear stone layer covered with a permeable geotextile fabric, including a minimum 250 mm thick native sand mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the filter bed, all in accordance with the OBC requirements;

Works No. 30 - Unit 62 and 63

the existing Works for the treatment and subsurface disposal of domestic sewage, rated at a maximum design capacity of 825 L/day (Unit 62-550 L/day and Unit 63-275 L/day), servicing one (1) two-bedroom trailer located on Lot 62 and one (1) two-bedroom trailer located on Lot 65, consisting of the following:

Lot 62

- one (1) two-compartment septic tank, located on Lot 62, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 62, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;

Lot 63

- one (1) two-compartment septic tank, located on Lot 63, receiving raw sewage from one (1) existing three-bedroom trailer located on Lot 63, having a minimum working capacity of 4,500 L, complete with two (2) access covers and one (1) effluent filter installed on the outlet pipe, discharging the effluent to the existing filter bed;
- three (3) exiting individual filter beds, one (1) bed located on Lot 61 and 62 and two (2) beds located on Lot

63 (to be replaced by PROPOSED WORKS - the new filter bed to be located on Lot 61);

all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage Works;

all in accordance with the supporting documents listed in Schedule A.

For the purpose of this environmental compliance approval, the following definitions apply:

1. "Approval" means this entire Approval document and any Schedules to it, including the application and Supporting Documentation;
2. "Director" means a person appointed by the Minister pursuant to Section 5 of the EPA for the purposes of Part II.I of the EPA;
3. "District Manager" means the District Manager of the Sudbury District Office;
4. "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
5. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;
6. "Grab Sample" means an individual sample of at least 1000 millilitres collected in an appropriate container at a randomly selected time over a period of time not exceeding 15 minutes;
7. "Licensed Engineering Practitioner" means a person who holds a licence, limited licence or temporary licence under the *Professional Engineers Act*, R.S.O. 1990, c. P.28;
8. "Licensed Installer" means a person who is registered under the OBC to construct, install, repair, service, clean or empty on-site sewage systems;
9. "Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;
10. "OBC" means the Ontario Building Code, Ontario Regulation 332/12 (Building Code) as amended to January 1, 2015, made under the *Building Code Act*, 1992, S.O. 1992, c. 23;
11. "Owner" means Humarcin Residents Organization and its successors and assignees;
12. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
13. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
14. "Works" means the approved sewage works, and includes Proposed Works, and Existing Works.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. The Owner shall design, construct, operate and maintain the Works in accordance with the conditions of this Approval.
3. Where there is a conflict between a provision of any document referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence.

2. EXPIRY OF APPROVAL

1. This Approval will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Approval.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:
 - a. change of address of Owner;
 - b. change of Owner, including address of new owner;
 - c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act*, R.S.O. 1990, c.B17 shall be included in the notification;
 - d. change of name of the corporation and a copy of the most current information filed under the *Corporations Informations Act*, R.S.O. 1990, c. C39 shall be included in the notification.
2. In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.
3. The Owner shall ensure that all communications made pursuant to this condition refer to the number of this Approval.

4. CONSTRUCTION

1. The Owner shall ensure that the construction of the Proposed Works is supervised by a Licensed Engineering Practitioner.
2. The Owner shall ensure that the Proposed Works are constructed such that minimum horizontal clearance distances as specified in the OBC are satisfied.
3. The Owner shall ensure that an imported soil that is required for construction of any subsurface disposal bed as per this Approval is tested and verified by a Licensed Engineering Practitioner for the percolation time (T) prior to delivering to the site location and the written records are kept at the site.
4. Upon construction of the Proposed Works, the Owner shall prepare a statement, certified by a Licensed Engineering Practitioner, that the Proposed Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff.
5. Upon construction of the Proposed Works, the Owner shall prepare a set of as-built drawings showing the Proposed Works "as constructed". "As-built" drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the site for the operational life of the Works and shall be made available for inspection by Ministry staff.

5. MONITORING AND RECORDING

The Owner shall, upon issuance of this Approval, carry out the following monitoring program:

1. All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.
2. Samples shall be collected at the sampling points, at the sampling frequency and using the sample type specified for each parameter listed in the Groundwater Monitoring Table included in Schedule B.
3. Upon issuance of this Approval, background groundwater quality must be established by collecting groundwater samples and having them analyzed for the parameters listed in the Groundwater Monitoring Table included in Schedule B.
4. The Owner shall employ measurement devices to accurately measure quantity of effluent being discharged to subsurface disposal beds, including but not limited to water/wastewater flow meters, event counters, running time clocks, or electronically controlled dosing, and shall record the daily volume of effluent being discharged to the subsurface disposal beds.
5. The Owner shall ensure that flow of treated effluent discharged into the subsurface disposal bed

does not exceed 14,712 Litres per day.

6. The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following documents and all analysis shall be conducted by a laboratory accredited to the ISO/IEC:17025 standard or as directed by the District Manager:
 - a. the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only), as amended from time to time by more recently published editions;
 - b. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions; and
 - c. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.
7. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this Approval.

6. OPERATIONS AND MAINTENANCE

1. The Owner shall ensure that, at all times, the Works and the related equipment and appurtenances used to achieve compliance with this Approval are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate staffing and training, including training in all procedures and other requirements of this Approval and the OWRA and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the Works.
2. The Owner shall prepare an operations manual within six (6) months of the introduction of sewage to the Proposed Works, that includes, but not necessarily limited to, the following information:
 - a. operating procedures for routine operation of all the Works;
 - b. inspection programs, including frequency of inspection, for all the Works and the methods or tests employed to detect when maintenance is necessary;
 - c. repair and maintenance programs, including the frequency of repair and maintenance for all the Works; copies of maintenance contracts for any routine inspections & pump-outs should be included for all the tanks and treatment units;
 - d. procedures for the inspection and calibration of monitoring equipment;
 - e. a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal

situations, including notification of the Spills Action Centre (SAC) and District Manager;
and

- f. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.
3. The Owner shall maintain an up to date operations manual and make the manual readily accessible for reference at the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.
4. The Owner shall ensure that all septic tanks are pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filters are cleaned out at minimum once a year or more often if required.
5. The Owner shall ensure that grass-cutting is maintained regularly over all subsurface disposal beds, and that adequate steps are taken to ensure that the area of the underground Works is protected from vehicle traffic.
6. The Owner shall visually inspect the general area where Works are located for break-out once every month.
7. In the event a break-out is observed from a subsurface disposal bed, the Owner shall do the following:
 - a. sewage discharge to that subsurface disposal system shall be discontinued;
 - b. the incident shall be immediately reported verbally to the Spills Action Centre (SAC) at (416) 325-3000 or 1-800-268-6060;
 - c. submit a written report to the District Manager within one (1) week of the break-out;
 - d. access to the break-out area shall be restricted until remedial actions are complete;
 - e. during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to the environment; and
 - f. sewage generated at the site shall be safely collected and disposed of through a licensed waste hauler to an approved sewage disposal site.
8. The Owner shall employ for the overall operation of the Works a person who possesses the level of training and experience sufficient to allow safe and environmentally sound operation of the Works.
9. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operations and maintenance activities required by this Approval.

7. REPORTING

1. One week prior to the start up of the operation of the Proposed Works, the Owner shall notify the District Manager (in writing) of the pending start up date.
2. In addition to the obligations under Part X of the EPA and O. Reg. 675/98 (Classification and Exemption of Spills and Reporting of Discharges) made under the EPA, the Owner shall, within fifteen (15) days of the occurrence of any reportable spill as provided in Part X of the EPA and O. Reg. 675/98, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill, clean-up and recovery measures taken, preventative measures to be taken and a schedule of implementation.
3. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
4. The Owner shall prepare and submit a performance report, on an annual basis, within ninety (90) days following the end of each operational season to the District Manager. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:
 - a. a summary and interpretation of groundwater monitoring data;
 - b. a summary and interpretation of all daily flow data and results achieved in not exceeding the maximum daily sewage flow discharged into the subsurface disposal beds;
 - c. a list of removed existing trailers and the existing Works servicing the trailers;
 - d. a list of removed existing Works;
 - e. a list of relocated existing Works;
 - f. a review and assessment of the performance of the Works, including all treatment units and subsurface disposal beds;
 - g. a description of any operating problems encountered and corrective actions taken at all Works located at the property;
 - h. a record of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of all Works located at the property including but not limited to: records of maintenance inspections for the treatment system, records of septic tank effluent filters cleaning, records of septic tank pump-outs, records of sludge pump-outs accumulated from the treatment system, records of visual inspections of all disposal systems;
 - i. a summary of any effluent quality assurance or control measures undertaken in the reporting

- period;
- j. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
 - k. a summary of all spill or abnormal discharge events; and
 - l. any other information the District Manager requires from time to time;

8. REPORTING DECOMMISSIONING OF UN-USED WORKS

1. The Owner shall properly abandon any portion of unused existing Works, as directed below, and upon completion of decommissioning report in writing to the District Manager:
 - a. any sewage pipes leading from building structures to unused Works components shall be disconnected and capped;
 - b. any unused septic tanks, holding tanks and pump chambers shall be completely emptied of its content by a licensed hauler and either be removed, crushed and backfilled, or be filled with granular material;
 - c. if the area of the existing leaching bed is going to be used for the purposes of construction of a replacement bed or other structure, all distribution pipes and surrounding material must be removed by a licensed hauler and disposed off site at an approved waste disposal site; otherwise the existing leaching bed may be abandoned in place after disconnecting, if there are no other plans to use the area for other purposes.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.
4. Condition 4 is included to ensure that the Works are constructed, and may be operated and maintained such that the environment is protected and deterioration, loss, injury or damage to any person or property is

prevented.

5. Condition 5 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives specified in the Approval and that the Works does not cause any impairment to the receiving watercourse.
6. Condition 6 is included to require that the Works be properly operated, maintained, and equipped such that the environment is protected. As well, the inclusion of an operations manual and a complete set of "as constructed" drawings governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the Ministry. Such information is an integral part of the operation of the Works. Its compilation and use should assist the Owner in staff training, in proper Works operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the Work.
7. Condition 7 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.
8. Condition 8 is included to ensure that any components of un-used Works are properly decommissioned.

Schedule A forms part of this Approval and contains a list of supporting documentation/information received, reviewed and relied upon in the issuance of this Approval.

SCHEDULE A

1. Environmental Compliance Approval Application submitted by S. A. Kirchhefer, Ph.D., P.Eng., S. A. Kirchhefer Limited, dated May 30, 2019 and received on August 23, 2019.
2. The design report titled "Report on Assessment of Existing Sewage Works for Humarcin Residents Organization" dated May 25, 2019 and prepared by S. A. Kirchhefer Limited.
3. All other information and documentation provided by S. A. Kirchhefer Limited.

Schedule B

Groundwater Monitoring Table

Sampling Location	1. Shallow Water Monitoring Wells: W1-17 and W2-17; and 2. Deep Water Monitoring Wells: W1-2021, W1-18 and W2-19
Frequency	Annually (means once every year) in November
Sample Type	Grab
Parameters	Antimony, Arsenic, Barium, Baron, Cadmium, Chromium, Nitrate - Nitrogen, Nitrite - Nitrogen, Lead, Mercury, Uranium, Selenium, Total Ammonia Nitrogen, Copper, Iron, Manganese, Sodium, Zinc, Total Phosphorus, Dissolved Phosphorus, Phosphate, Potassium, Chloride, TOC and field measured parameters including: pH, Temperature, Dissolved Oxygen and Conductivity

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 2931-8PQJ2Q issued on July 10, 2012.

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me, the Ontario Land Tribunal and in accordance with Section 47 of the *Environmental Bill of Rights, 1993*, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the *Environmental Protection Act* provides that the notice requiring the hearing ("the Notice") shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the *Environmental Protection Act*, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

and

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th.Floor
Toronto, Ontario
M7A 2J3

and

The Director appointed for the purposes of
Part II.1 of the *Environmental Protection Act*
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.olt.gov.on.ca**

This instrument is subject to Section 38 of the *Environmental Bill of Rights*, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the *Environmental Protection Act*.

DATED AT TORONTO this 12th day of December, 2022



Fariha Pannu, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

KC/

c: District Manager, MECP Sudbury District Office
S. A. Kirchhefer, Ph.D., P.Eng., S. A. Kirchhefer Limited