Appendix F: Revised SIA Report

Park and there no downstream irrigation or fish-pond uses, so the sewage will need to be treated for discharge to Group D Inland Waters. It will therefore be necessary to treat the sewage with on-Site treatment facilities, to enable local discharge to the nearby stream.

5.2.2 The most appropriate sewage treatment process for the Site flows and conditions is considered to be a Membrane Bio-Reactor (MBR) package sewage treatment plant (STP) and this will be the proposed treatment process for the development. Such facilities are fairly common in Hong Kong and are readily available. A description of an example project using MBR technology is included in **Appendix C**, with a brochure from a local supplier included in **Appendix D** (N.B. the brochure mentions reuse of treated effluent, but there is **no intention to reuse treated effluent for this Project**).

5.2.3 The MBR STP will be provided as a package unit and housed within a simple structure adjacent to the Plant Nursery, with appropriate odour control facilities. There will also be a holding tank for raw sewage, to enable peak discharges to be retained and the MBR unit to run at a fairly consistent flow rate and to provide some emergency storage.

5.2.4 In addition to the storage provided by the holding tank, emergency (back-up) power supply will be provided for the STP. Furthermore, the type of MBR STP proposed can easily be provided with parallel treatment streams, so that some treatment capacity can be maintained in the event of equipment failure. Also, it is expected that the STP will be maintained by a specialist contractor, with remote monitoring and alarm systems, as well as emergency maintenance teams.

5.2.5 Flows from the toilets at the Activity Centre and the Visitor Centre will be conveyed to the STP via gravity sewers (probably uPVC), as indicated on **Figure 2**. The STP will discharge via a dedicated pipe to the main streamcourse.

5.2.6 As the STP and sewerage facilities will be entirely within the Application Site, the Project Proponent will be responsible for the on-going operation and maintenance.

5.2.7 A Discharge Licence will be required for the STP and this will be applied for at later stages of implementation, at which time further details and specifications will be submitted for approval.

Appendix A

Master Layout Plan

LEGEND:

APPLICATION SITE BOUNDARY	=	9,054	M² APPROX
PROPOSED ACTIVITY CENTRE	=	146	M²
PROPOSED VISITOR CENTRE	=	220	M²
PROPOSED PLANT NURSERY	=	194	M²
TOTAL BUILDING G.F.A.	=	560	M²

N

THE SITE

ACCESS FOR PLANT NURSERY STAFF

PLANT NURSERY

ACCESS FOR VISITOR (MAIN ENTRANCE)

VISITOR CENTRE

ACTIVITY CENTRE

ACCESS ROAD

MASTER LAYOUT PLAN

TONY IP GREEN ARCHITECTS LTD.
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PROJECT MANAGER: SMILEY PLANET

LANDSCAPE ARCHITECT: SQUARE METRES DESIGN

Check all measurements on site.
Do not scale off drawings.

This drawing is to be read in conjunction with the specification and any discrepancies are to be immediately reported to the Architect.

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REV.	DESCRIPTION	DATE

PROJECT TITLE: TAI PO KAU NATURE ACADEMY

DRAWING TITLE: MASTER LAYOUT PLAN

PROJECT NO. 21004SD	DRAWN BY WH
SCALE 1 : 600 @ A3	CHECKED BY AK
DATE 16/05/2022	APPROVED BY TI
DRAWING NO. PLN001	REV. NO.

DRAWING PURPOSE: Indicative Only