

Agreement No. CE 43/2001 (EP)

**Tai Po Sewage Treatment Works – Stage V
Final Environmental Impact Assessment Report (Volume 2)**

**COVER
TABLE OF CONTENT**

List of Figures

- Figure 2.1 Site Location Plan
- Figure 2.2 General Layout of the Works
- Figure 2.3 Alternative Layout of the Treatment Scheme
- Figure 3.1 Air Quality Assessment Area
- Figure 3.2 Locations of Representative Air Sensitive Receivers
- Figure 3.3 Potential Odorous Sources of Different Treatment Facilities (Phase 1)
- Figure 3.4 Potential Odorous Sources of Different Treatment Facilities (Phase 2)
- Figure 3.5 Contours of Unmitigated Odour Concentration (ou) at 1.5 m above Ground (Phase 1)
- Figure 3.6 Contours of Unmitigated Odour Concentration (ou) at 1.5 m above Ground (Phase 2)
- Figure 3.7 Odour Mitigation Measures (Phase 1)
- Figure 3.8 Odour Mitigation Measures (Phase 2)
- Figure 3.9 Contours of mitigated Odour Concentration (ou) at 1.5 m above Ground (Phase 1)
- Figure 3.10 Contours of mitigated Odour Concentration (ou) at 1.5 m above Ground (Phase 2)
- Figure 3.11 Contours of mitigated Odour Concentration (ou) at 3.5 m above Ground (Phase 2)
-
- Figure 4.1 Location of EPD’s Marine Water Quality Monitoring Stations in Victoria Harbour
- Figure 4.2a Locations of EPD’s Marine Water Quality Monitoring Stations in the Tolo Harbour and Channel WCZ
- Figure 4.2b Locations of EPD’s Marine Water Quality Monitoring Stations in Mirs Bay
- Figure 4.3 Locations of Water Intakes and Coral Sites in Victoria Harbour
- Figure 4.4 Key Water and Marine Ecological Sensitive Receivers in Tolo Harbour and Channel
- Figure 4.5 Coastline Configuration in 2010
- Figure 4.6a Coastline Configuration in 2016
- Figure 4.6b Alternative Coastline Configuration in 2016
- Figure 4.7 Locations of the Outfalls for the Emergency Bypasses of Shatin Effluent Pumping Station and Tai Po Effluent Pumping Station
- Figure 4.8 Locations of Fish Culture Zones, Beaches and Typhoon Shelters within the Water Quality Modelling Area under Scenario 1 (2003)
- Figure 4.9 Locations of Fish Culture Zones, Beaches, Typhoon Shelters, and Marinas within the Water Quality Modelling Area under Scenarios 2A and 2B (2010)
- Figure 4.10 Locations of Fish Culture Zones, Beaches, Typhoon Shelters, and Marinas within the Water Quality Modelling Area under Scenarios 3A and 3B (2016)
-
- Figure 6.1 Location Plan of Project Site, Shuen Wan Landfill and Its 250m Consultation Zone.
- Figure 6.2a Site Plans for Landfill Gas Management System at Shuen Wan Landfill (Gas Monitoring Probes)
- Figure 6.2b Site Plans for Landfill Gas Management System at Shuen Wan Landfill (Old Active Wells)
- Figure 6.2c Site Plans for Landfill Gas Management System at Shuen Wan Landfill (Passive Vents)

Figure 6.2d	Site Plans for Landfill Gas Management System at Shuen Wan Landfill (New Active Wells)
Figure 6.3	Leachate Pre-treatment Works at Shuen Wan Landfill
Figure 6.4a	Geology Map for Shuen Wan Landfill and Project Site
Figure 6.4b	Geology Map for Shuen Wan Landfill and Project Site
Figure 6.5	Locations of Gas Monitoring Probes at Shuen Wan Landfill
Figure 6.6	Cross Section Between Shuen Wan Landfill and Project Site
Figure 7.1	Location of Tai Po Sewage Treatment Plant
Figure 7.2	Location of Noise Monitoring Station
Figure 7.3	Location of Noise Sensitive Receiver
Figure 7.4	Locations of Work Areas During Restricted Hours

List of Appendices

Appendix 1.1	Project Study Brief
Appendix 3.1	Hydrogen Sulphide Survey
Appendix 3.2	Calculations of Emission Rates
Appendix 4.1	Pollution Loading Inventories for the HKSAR in 2003, 2010 and 2016
Appendix 4.2	Contour and Time Series Plots of Water Quality Modelling Results [File Zie: 40M]
Appendix 4.3	Environmental Protection Department, Professional Persons Environmental Consultative Committee Practice Note (ProPECC PN) 1/94 – Construction Site Drainage
Appendix 4.4a	Assessment of Water Quality Impact due to Possible Change in the HATS Treatment for 2016
Appendix 4.4b	Assessment of Water Quality Impact due to Possible Change in Coastline Configuration for 2016
Appendix 4.5	Emergency Contingency Plan
Appendix 4.6	Figures for Overflow Discharges
Appendix 4.7	Comparison of Historic Water Quality Data With Closure Periods of THEES
Appendix 6.1	Landfill gas Monitoring Data
Appendix 6.2	Facilities Surrounding the Shuen Wan Landfill
Appendix 7.1	Baseline Noise Survey Report
Appendix 7.2	Powered Mechanical Equipment (PME) for Different Construction Tasks During Normal Daytime Working Hours – Unmitigated Scenario
Appendix 7.3	Construction Programme
Appendix 7.4	Calculation of Construction Noise Levels at Representative Noise Sensitive Receiver During Normal Daytime Working Hours - Unmitigated Scenario
Appendix 7.5	The Plant Inventories of the Tai Po Sewage Treatment Plant
Appendix 7.6	Calculation of Operational Noise Levels at Representative Noise Sensitive Receiver- Unmitigated Scenario
Appendix 7.7	Powered Mechanical Equipment (PME) for Different Construction Tasks During Normal Daytime Working Hours – Mitigated Scenario
Appendix 7.8	Calculation of Construction Noise Levels at Representative Noise Sensitive Receiver During Normal Daytime Working Hours - Mitigated Scenario
Appendix 7.9	Powered Mechanical Equipment (PME) for Different Construction Tasks During Restricted Hours – Mitigated Scenario
Appendix 7.10	Calculation of Construction Noise Levels at Representative Noise Sensitive Receiver During Restricted Hours - Mitigated Scenario