



## ANNEX B

## ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

## ANNEX B ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

| EIA Ref.                         | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures               | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                                      |
|----------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|------------------------------------------------------------------------|
|                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                  |                                        |                               | D                                             | C | O/R | A |                                                            |                                                                        |
| Air Quality – Construction Phase |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                  |                                        |                               |                                               |   |     |   |                                                            |                                                                        |
| 4.8.1                            | AQ1      | <u>Blasting</u> <ul style="list-style-type: none"><li>The area within 30m of the blasting area will be wetted prior to blasting.</li><li>Blasting will not be carried out when the strong wind signal or tropical cyclone warning signal No. 3 or higher is hoisted, unless this is with the express prior permission of the Commissioner of Mines.</li><li>loose material and stones in the Site will be removed prior to the blast operation</li><li>During blasting, blast nets, screens and other protective covers will be used to prevent the projection of flying</li></ul> | To minimise potential dust nuisance                              | Blasting area and 30m of blasting area | SENTX Contractor              |                                               | ✓ |     |   | Air Pollution Control (Construction Dust) Regulations      | Not applicable. Blasting is not required in the latest landfill design |

(1) D=Design; C=Construction; O/R=Operation/Restoration; A=Aftercare

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                         | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures    | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                                       | Implementation Status and Remarks                                           |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------|-------------------------------|-----------------------------------------------|---|-----|---|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|          |          |                                                                                                                                                                                                                                                                                |                                                                  |                             |                               | D                                             | C | O/R | A |                                                                                                  |                                                                             |
|          |          | fragments and material resulting from blasting                                                                                                                                                                                                                                 |                                                                  |                             |                               |                                               |   |     |   |                                                                                                  |                                                                             |
| 4.8.1    | AQ2      | <u>Rock Drilling</u><br>Watering will be carried out at the rock drilling activities to avoid fugitive dust emissions.                                                                                                                                                         | To minimise potential dust nuisance                              | Rock drilling area          | SENTX Contractor              |                                               | ✓ |     |   | <i>Air Pollution Control (Construction Dust) Regulations</i>                                     | Not applicable. Rock drilling is not required in the latest landfill design |
| 4.8.1    | AQ3      | <u>Site Access Road</u> <ul style="list-style-type: none"> <li>The main haul road will be kept clear of dusty materials or sprayed with water.</li> <li>The main haul road will be paved with aggregate or gravel.</li> <li>Vehicle speed will be limited to 10kph.</li> </ul> | To minimise potential dust nuisance                              | Main haul road              | SENTX Contractor              |                                               | ✓ |     |   | <i>Air Pollution Control (Construction Dust) Regulations</i><br><i>HKAQO and EIAO-TM Annex 4</i> | Implemented                                                                 |
| 4.8.1    | AQ4      | <u>Stockpiling of Dusty Materials</u> <ul style="list-style-type: none"> <li>Any stockpile of dusty materials will be covered entirely by impervious sheeting or placed in an area sheltered on the top and three sides or sprayed</li> </ul>                                  | To minimise potential dust nuisance                              | All construction works area | SENTX Contractor              |                                               | ✓ |     |   | <i>Air Pollution Control (Construction Dust) Regulations</i>                                     | Implemented                                                                 |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                             | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures    | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                             | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------|-------------------------------|-----------------------------------------------|---|-----|---|----------------------------------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                    |                                                                  |                             |                               | D                                             | C | O/R | A |                                                                                        |                                   |
|          |          | with water so as to ensure that the entire surface is wet.                                                                                                                                                                                                                                                                                                         |                                                                  |                             |                               |                                               |   |     |   | HKAQO and EIAO-TM Annex 4                                                              |                                   |
| 4.8.1    | AQ5      | <u>Loading, unloading or transfer of dusty materials</u> <ul style="list-style-type: none"> <li>All dusty materials will be sprayed with water immediately prior to any loading, unloading or transfer operation so as to maintain the dusty material wet.</li> </ul>                                                                                              | To minimise potential dust nuisance                              | All construction works area | SENTX Contractor              |                                               | ✓ |     |   | Air Pollution Control (Construction Dust) Regulations<br><br>HKAQO and EIAO-TM Annex 4 | Implemented                       |
| 4.8.1    | AQ6      | <u>Site Boundary and Entrance</u> <ul style="list-style-type: none"> <li>Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of height not less than 2.4m from ground level will be provided along the entire length of that portion of the site boundary except for the site entrance or exit.</li> </ul> | To minimise potential dust nuisance                              | Site boundary and entrance  | SENTX Contractor              |                                               | ✓ |     |   | Air Pollution Control (Construction Dust) Regulations<br><br>HKAQO and EIAO-TM Annex 4 | Not applicable                    |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                             | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures    | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                                       | Implementation Status and Remarks |
|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------|-------------------------------|-----------------------------------------------|---|-----|---|--------------------------------------------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                  |                             |                               | D                                             | C | O/R | A |                                                                                                  |                                   |
| 4.8.1    | AQ7      | <u>Excavation Works</u> <ul style="list-style-type: none"> <li>Working area of any excavation or earth moving operation will be sprayed with water immediately before, during and immediately after the operation so as to ensure that the entire surface is wet.</li> </ul>                                                                                                                       | To minimise potential dust nuisance                              | All construction works area | SENTX Contractor              |                                               | ✓ |     |   | <i>Air Pollution Control (Construction Dust) Regulations</i><br><i>HKAQO and EIAO-TM Annex 4</i> | Implemented                       |
| 4.8.1    | AQ8      | <u>Building Demolition</u> <ul style="list-style-type: none"> <li>The area where the demolition works are planned to take place will be sprayed with water immediately prior to, during and immediately after the demolition activities.</li> <li>Any dusty materials remaining after a stockpile is removed will be wetted with water and cleared from the surface of roads or street.</li> </ul> | To minimise potential dust nuisance                              | All construction works area | SENTX Contractor              |                                               | ✓ |     |   | <i>Air Pollution Control (Construction Dust) Regulations</i><br><i>HKAQO and EIAO-TM Annex 4</i> | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                            | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures                 | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                                       | Implementation Status and Remarks                                                  |
|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|          |          |                                                                                                                                                                                                                                                                   |                                                                  |                                          |                               | D                                             | C | O/R | A |                                                                                                  |                                                                                    |
| 4.8.1    | AQ9      | <u>Construction of the Superstructure of Building</u> <ul style="list-style-type: none"> <li>Effective dust screens, sheeting or netting will be provided to enclose the scaffolding from the ground level up to the highest level of the scaffolding.</li> </ul> | To minimise potential dust nuisance                              | All construction works area              | SENTX Contractor              |                                               | ✓ |     |   | <i>Air Pollution Control (Construction Dust) Regulations</i><br><i>HKAQO and EIAO-TM Annex 4</i> | Implemented                                                                        |
| 4.8.1    | AQ10     | Should a stone crushing plant be needed on site, the control measures recommended in the <i>Best Practicable Means Requirement for Mineral Works (Stone Crushing Plants) BPM 11/1</i> should be implemented.                                                      | To minimise potential dust nuisance                              | Stone crushing plant/ construction phase | SENTX Contractor              |                                               | ✓ |     |   | <i>Best Practicable Means Requirement for Mineral Works (Stone Crushing Plants) BPM 11/1</i>     | Not applicable. Stone crushing plant is not required in the latest landfill design |
| 4.8.1    | AQ11     | Good site practices such as regular maintenance and checking of the diesel powered mechanical equipment will be adopted to avoid any black smoke emissions and to minimize                                                                                        | To minimise potential dust nuisance                              | All construction works area              | SENTX Contractor              |                                               | ✓ |     |   | <i>HKAQO and EIAO-TM Annex 4</i>                                                                 | Implemented                                                                        |

| EIA Ref.                                                         | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                   | Objectives of the Recommended Measure & Main Concerns to address             | Location of the Measures                            | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                                                                                                                  |
|------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                  |          |                                                                                                                                                                          |                                                                              |                                                     |                               | D                                             | C | O/R | A |                                                            |                                                                                                                                                    |
|                                                                  |          | gaseous emissions.                                                                                                                                                       |                                                                              |                                                     |                               |                                               |   |     |   |                                                            |                                                                                                                                                    |
| 4.10.1                                                           | AQ12     | Dust monitoring once every 6 days                                                                                                                                        | Ensure the dust generated from the project meets the air quality requirement | At monitoring locations shown in <i>Figure 3.2a</i> | SENTX Contractor              |                                               | ✓ |     |   | <i>HKAQO and EIAO-TM Annex 4</i>                           | Implemented                                                                                                                                        |
| <b>Air Quality – Operation, Restoration and Aftercare Phases</b> |          |                                                                                                                                                                          |                                                                              |                                                     |                               |                                               |   |     |   |                                                            |                                                                                                                                                    |
| 4.8.2                                                            | AQ13     | <u>Odour</u><br>• Enclosing the weighbridge area                                                                                                                         | To minimise odour nuisance                                                   | Weighbridge area                                    | SENTX Contractor              | ✓                                             |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Not Applicable. As SENTX will receive construction waste only which is significantly less odorous, enclosing the weighbridge area is not necessary |
| 4.8.2                                                            | AQ14     | • Providing a vehicle washing facility before the exit of SENTX and providing sufficient signage to remind RCV drivers to pass through the facility before leaving SENTX | To minimise odour nuisance                                                   | Vehicle washing facility                            | SENTX Contractor              | ✓                                             |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Implemented                                                                                                                                        |
| 4.8.2                                                            | AQ15     | • Reminding the RCV drivers to empty the liquor collection sump and close the valve before leaving                                                                       | To minimise odour nuisance                                                   | Tipping face                                        | SENTX Contractor              |                                               |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Not Applicable. As SENTX will receive construction waste only, which                                                                               |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                           | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                                                                                                              |
|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|          |          |                                                                                                                                                                                                                                  |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                                                                                                                                |
|          |          | the tipping face                                                                                                                                                                                                                 |                                                                  |                          |                               |                                               |   |     |   |                                                            | is relatively dry, the amount of liquor generated is expected to minimal                                                                       |
| 4.8.2    | AQ16     | <ul style="list-style-type: none"> <li>Washing down the area where spillage of RCV liquor is discovered promptly</li> </ul>                                                                                                      | To minimise odour nuisance                                       | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Not Applicable. As SENTX will receive construction waste only, which is relatively dry, the amount of liquor generated is expected to minimal. |
| 4.8.2    | AQ17     | <ul style="list-style-type: none"> <li>Reminding operators to properly maintain their RCVs and ensure that liquor does not leak from the vehicles</li> </ul>                                                                     | To minimise odour nuisance                                       | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Not Applicable. As SENTX will receive construction waste only, which is relatively dry, the amount of liquor generated is expected to minimal. |
| 4.8.2    | AQ18     | <ul style="list-style-type: none"> <li>Installation of landfill gas control system to enhance collection of landfill gas from the waste mass and hence minimise odour associated with fugitive landfill gas emissions</li> </ul> | To minimise odour nuisance                                       | SENTX Site               | SENTX Contractor              | ✓                                             |   | ✓   | ✓ | <i>EIAO-TM Annex 4</i>                                     | Implemented                                                                                                                                    |

| EIA Ref.                      | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                              | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                                                                                                                |
|-------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                               |          |                                                                                                                                                                                                                                                                     |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                                                                                                                                  |
| 4.8.2                         | AQ19     | <ul style="list-style-type: none"> <li>Progressive restoration of the areas which reach the finished profile (a final capping system including an impermeable liner will be put in place) and installation of a permanent landfill gas extraction system</li> </ul> | To minimise odour nuisance                                       | SENTX Site               | SENTX Contractor              | ✓                                             |   | ✓   | ✓ | EIAO-TM Annex 4                                            | Implemented                                                                                                                                      |
| 4.8.2                         | AQ20     | <ul style="list-style-type: none"> <li>Installing deodorizers along the site boundary adjacent to the ASRs</li> </ul>                                                                                                                                               | To minimise odour nuisance                                       | SENTX Site boundary      | SENTX Contractor              |                                               |   | ✓   | ✓ | EIAO-TM Annex 4                                            | Not Applicable. As SENTX will receive construction waste only which is significantly less odorous, installation of deodorizers is not necessary. |
| 4.8.2                         | AQ21     | <ul style="list-style-type: none"> <li>Erecting a vertical barrier, wall or structure softened by planting rows of trees/shrubs or landscape feature along the site boundary, particularly in the areas near the ASRs</li> </ul>                                    | To minimise odour nuisance                                       | SENTX Site boundary      | SENTX Contractor              | ✓                                             |   | ✓   | ✓ | EIAO-TM Annex 4                                            | Implemented                                                                                                                                      |
| 4.8.2 and SENTX latest design | AQ22     | <ul style="list-style-type: none"> <li>Maintaining the size of the active tipping face not greater than 1,200 m<sup>2</sup></li> </ul>                                                                                                                              | To minimise odour nuisance                                       | Active tipping face      | SENTX Contractor              |                                               |   | ✓   |   | EIAO-TM Annex 4                                            | Implemented                                                                                                                                      |

| EIA Ref.                      | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                  | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                             |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|---------------------------------------------------------------|
|                               |          |                                                                                                                                                                                                                                                                                                                         |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                                               |
| 4.8.2                         | AQ23     | <ul style="list-style-type: none"> <li>Promptly covering the MSW with soil or selected inert materials to control odour emissions</li> </ul>                                                                                                                                                                            | To minimise odour nuisance                                       | Active tipping face      | SENTX Contractor              |                                               |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Not Applicable. SENTX will not receive MSW.                   |
| 4.8.2                         | AQ24     | <ul style="list-style-type: none"> <li>Maintaining the size of the special waste trench not greater than 6m (l) × 2.5m (w)</li> </ul>                                                                                                                                                                                   | To minimise odour nuisance                                       | Special waste trench     | SENTX Contractor              |                                               |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Not Applicable. SENTX will not have any special waste trench. |
| 4.8.2 and SENTX latest design | AQ25     | <ul style="list-style-type: none"> <li>Covering daily covered area with a tarpaulin sheet or 300mm of soil after the landfill operating hours</li> </ul>                                                                                                                                                                | To minimise odour nuisance                                       | Daily covered area       | SENTX Contractor              |                                               |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Implemented                                                   |
| 4.8.2                         | AQ26     | <ul style="list-style-type: none"> <li>Covering special waste trench with 600 mm of soil and an impervious liner after 5 pm</li> </ul>                                                                                                                                                                                  | To minimise odour nuisance                                       | Special waste trench     | SENTX Contractor              |                                               |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Not Applicable. SENTX will not have any special waste trench. |
| 4.8.2                         | AQ27     | <ul style="list-style-type: none"> <li>Covering the non-active tipping face with 600mm of soil and an impermeable liner (on top of the intermediate cover), which will not only control odour emissions from landfilled waste but also enhance landfill gas extraction by the landfill gas extraction system</li> </ul> | To minimise odour nuisance                                       | Intermediate cover       | SENTX Contractor              |                                               |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Implemented                                                   |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                               | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures                     | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                                                                                                                                                                        |
|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |                                              |                               | D                                             | C | O/R | A |                                                            |                                                                                                                                                                                                          |
| 4.8.2    | AQ28     | <ul style="list-style-type: none"> <li>Applying deodorizers or odour suppression agents to control odour emissions from the active tipping face and special waste trench, if any, through spraying or fogging equipment</li> </ul>                                                                                                                                                                                   | To minimise odour nuisance                                       | Active tipping face and special waste trench | SENTX Contractor              |                                               |   | ✓   |   | EIAO-TM Annex 4                                            | Not Applicable. As SENTX will receive construction waste only which is significantly less odorous, installation of deodorizers is not necessary. Moreover, SENTX will not have any special waste trench. |
| 4.8.2    | AQ29     | <ul style="list-style-type: none"> <li>Providing a mobile cover with retractable or suitable opening to cover up the opening of the special waste trench except during waste deposition and a suitable odour removal unit. The mobile cover should be equipped with powered extraction and suitable odour removal unit for purifying the trapped gas inside the trench before release into the atmosphere</li> </ul> | To minimise odour nuisance                                       | Special waste trench                         | SENTX Contractor              |                                               |   | ✓   |   | EIAO-TM Annex 4                                            | Not Applicable. SENTX will not have any special waste trench.                                                                                                                                            |

| EIA Ref.                      | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                    | Objectives of the Recommended Measure & Main Concerns to address        | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                                                                                                                             |
|-------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               |          |                                                                                                                                                                                                                                                                                                                           |                                                                         |                          |                               | D                                             | C | O/R | A |                                                            |                                                                                                                                                               |
| 4.8.2 and SENTX latest design | AQ30     | <ul style="list-style-type: none"> <li>Providing a thermal oxidizer for the leachate treatment plant</li> </ul>                                                                                                                                                                                                           | To minimise odour nuisance as a result of breakdown of thermal oxidizer | Leachate treatment plant | SENTX Contractor              | ✓                                             |   | ✓   | ✓ | <i>EIAO-TM Annex 4</i>                                     | Implemented                                                                                                                                                   |
| 4.8.2 and SENTX latest design | AQ31     | <ul style="list-style-type: none"> <li>Enclosing all the leachate storage and treatment tanks (except for the Sequential Batch Reactor (SBR) or Membrane Bioreactor (MBR) tanks) and diverting the exhaust air from these tanks to a thermal oxidizer or flare to avoid potential odour emissions from the LTP</li> </ul> | To minimise odour nuisance                                              | Leachate treatment plant | SENTX Contractor              | ✓                                             |   | ✓   | ✓ | <i>EIAO-TM Annex 4</i>                                     | Implemented                                                                                                                                                   |
| 4.8.2                         | AQ32     | <ul style="list-style-type: none"> <li>Rescheduling of waste filling activities on-site by avoiding waste filling activities carrying out at the northern area of the site in the summer months between July to November</li> </ul>                                                                                       | To minimise odour nuisance                                              | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | <i>EIAO-TM Annex 4</i>                                     | Not Applicable. As SENTX will receive construction waste only which is significantly less odorous, rescheduling of waste filling activities is not necessary. |
| 4.8.2 and SENTX latest design | AQ33     | <u>Dust, Gaseous Emission and LFG including Volatile Organic Compounds (VOCs)</u>                                                                                                                                                                                                                                         | To minimise dust nuisance                                               | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | <i>HKAQO and EIAO-TM Annex 4</i>                           | Implemented                                                                                                                                                   |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                              | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                     |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | <ul style="list-style-type: none"> <li>Keeping the main haul road to the waste filling area wet by regular watering;</li> </ul>                     |                                                                  |                          |                               |                                               |   |     |   |                                                            |                                   |
| 4.8.2    | AQ34     | <ul style="list-style-type: none"> <li>Compacting the exposed daily and intermediate covered areas well to avoid fugitive dust emission;</li> </ul> | To minimise dust nuisance                                        | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | HKAQO and EIAO-TM Annex 4                                  | Implemented                       |
| 4.8.2    | AQ35     | <ul style="list-style-type: none"> <li>Limiting the vehicle speed within SENTX site boundary;</li> </ul>                                            | To minimise dust nuisance                                        | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | HKAQO and EIAO-TM Annex 4                                  | Implemented                       |
| 4.8.2    | AQ36     | <ul style="list-style-type: none"> <li>Providing vehicle washing bay to avoid vehicles carrying dust to public roads;</li> </ul>                    | To minimise dust nuisance                                        | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | HKAQO and EIAO-TM Annex 4                                  | Implemented                       |
| 4.8.2    | AQ37     | <ul style="list-style-type: none"> <li>Switching off the engine when the diesel-driven equipment is idling;</li> </ul>                              | To minimise gaseous emissions                                    | SENTX Site               | SENTX Contractor              |                                               |   | ✓   | ✓ | -                                                          | Implemented                       |
| 4.8.2    | AQ38     | <ul style="list-style-type: none"> <li>Maintaining the construction equipment properly to avoid any black smoke emissions;</li> </ul>               | To minimise gaseous emissions                                    | SENTX Site               | SENTX Contractor              |                                               |   | ✓   | ✓ | -                                                          | Implemented                       |
| 4.8.2    | AQ39     | <ul style="list-style-type: none"> <li>Providing sufficient underground landfill gas collection system to capture the landfill gas</li> </ul>       | To minimise gaseous emissions,                                   | SENTX Site               | SENTX Contractor              |                                               |   | ✓   | ✓ | EIAO-TM Annex 4                                            | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                              | Objectives of the Recommended Measure & Main Concerns to address               | Location of the Measures                             | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                                                                                                                         | Implementation Status and Remarks |
|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                     |                                                                                |                                                      |                               | D                                             | C | O/R | A |                                                                                                                                                                                    |                                   |
|          |          | generated as much as possible; and                                                                                                                                                  | including LFG and VOCs                                                         |                                                      |                               |                                               |   |     |   |                                                                                                                                                                                    |                                   |
| 4.8.2    | AQ40     | <ul style="list-style-type: none"> <li>Periodic inspections of the final cover should be undertaken to ensure that the capping layer is in good conditions at all times.</li> </ul> | To minimise gaseous emissions, including LFG and VOCs                          | SENTX Site                                           | SENTX Contractor              |                                               |   | ✓   | ✓ | <i>EIAO-TM Annex 4</i>                                                                                                                                                             | Implemented                       |
| 4.10.2   | AQ41     | <ul style="list-style-type: none"> <li>Monitoring of ambient TSP once every 6 days</li> </ul>                                                                                       | Ensure the dust emission from the project meets the dust requirement           | At monitoring locations shown in <i>Figure 11.3a</i> | SENTX Contractor              |                                               | ✓ | ✓   |   | <i>HKAQO and EIAO-TM Annex 4</i>                                                                                                                                                   | Implemented                       |
| 4.10.2   | AQ42     | <ul style="list-style-type: none"> <li>Monitoring of ambient VOCs, ammonia and H<sub>2</sub>S, quarterly</li> </ul>                                                                 | Ensure the gaseous emission from the project meets the air quality requirement | At monitoring locations shown in <i>Figure 11.3a</i> | SENTX Contractor              |                                               |   | ✓   | ✓ | Odour thresholds or 1% of Occupational Exposure Limit (OEL) as stipulated in the "UK Health and Safety Executive (HSE) EH 40/05 Occupational Exposure Limits", whichever is lower. | Implemented                       |

| EIA Ref.                       | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                             | Objectives of the Recommended Measure & Main Concerns to address               | Location of the Measures                                                                                                              | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |                  | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|--------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------|---|-----|------------------|------------------------------------------------------------|-----------------------------------|
|                                |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                |                                                                                                                                       |                               | D                                             | C | O/R | A                |                                                            |                                   |
| 4.10.2 and SENTX latest design | AQ43     | <ul style="list-style-type: none"> <li>Monitoring of parameters for thermal oxidizer, flares and generator in accordance with requirements stated in Tables 3.4a, 3.5a and 3.6a of the EM&amp;A Manual respectively.</li> </ul>                                                                                                                                                                                                                                                                    | Ensure the gaseous emission from the project meets the air quality requirement | At the flares and thermal oxidizer stacks when they are in operation                                                                  | SENTX Contractor              |                                               |   | ✓   | ✓ <sup>(2)</sup> | Emission Limits specified in Contract                      | Implemented                       |
| 4.10.2                         | AQ44     | <ul style="list-style-type: none"> <li>To confirm design assumption of ammonia, it is recommended that the ammonia concentration in the flue gas of the thermal oxidiser be monitored during the commissioning stage of the thermal oxidiser. If required, an emission standard will be set for ammonia for the thermal oxidiser based on the monitoring results. If no ammonia is detected in the flue gas during the decommissioning stage, the monitoring of ammonia in the flue gas</li> </ul> | Ensure the gaseous emission from the project meets the air quality requirement | At the thermal oxidizer stack during commissioning . If ammonia is detected during commissioning stage, the monitoring will continue. | SENTX Contractor              |                                               |   | ✓   |                  | Emission Limits determined during commissioning stage      | Implemented                       |

<sup>(2)</sup> For LFG flare and LFG generator only.

| EIA Ref.                          | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                             | Objectives of the Recommended Measure & Main Concerns to address       | Location of the Measures                        | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|-----------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |                                                 |                               | D                                             | C | O/R | A |                                                            |                                   |
|                                   |          | of the thermal oxidiser could be discontinued.                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |                                                 |                               |                                               |   |     |   |                                                            |                                   |
| 4.10.2 and SENTX latest design    | AQ45     | <ul style="list-style-type: none"> <li>Odour patrol in accordance with requirements stated in Table 3.7a of the EM&amp;A Manual.</li> </ul>                                                                                                                                                                                                                                                                                        | Ensure the odour emission from the project meets the odour requirement | Along SENTX Site boundary                       | SENTX Contractor              |                                               |   | ✓   |   | EIAO-TM Annex 4                                            | Implemented                       |
| 4.10.2                            | AQ46     | <ul style="list-style-type: none"> <li>Monitoring of meteorological station, continuously</li> </ul>                                                                                                                                                                                                                                                                                                                               | Collect site specific meteorological data                              | At meteorological station shown in Figure 11.3a | SENTX Contractor              |                                               | ✓ | ✓   | ✓ | -                                                          | Implemented                       |
| <b>Noise – Construction Phase</b> |          |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |                                                 |                               |                                               |   |     |   |                                                            |                                   |
| 5.7.1                             | N1       | Adopt good site practice listed below: <ul style="list-style-type: none"> <li>Only well-maintained plant will be operated on-site and plant should be serviced regularly during the construction program;</li> <li>Silencers or mufflers on construction equipment should be utilized and will be properly maintained during the construction program;</li> <li>Mobile plant, if any, will be sited as far from NSRs as</li> </ul> | To minimise potential construction noise nuisance.                     | All construction works area                     | SENTX Contractor              |                                               | ✓ |     |   | Noise Control Ordinance (NCO) and EIAO-TM Annex 5          | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures                     | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                  |                                              |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | possible;<br><ul style="list-style-type: none"> <li>Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or should be throttled down to a minimum;</li> <li>Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and</li> <li>Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.</li> </ul> |                                                                  |                                              |                               |                                               |   |     |   |                                                            |                                   |
| 5.8      | N2       | Weekly noise monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ensure noise generated from the project meets the criteria       | At monitoring locations shown in Figure 6.4a | SENTX Contractor              |                                               | ✓ |     |   | Noise Control Ordinance (NCO) and EIAO-TM Annex 5          | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                        |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |

### Noise – Operation/Restoration Phase

|       |    |                                                                                                                                                                                                      |                                                   |                         |                  |  |  |   |  |                                                   |             |
|-------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|------------------|--|--|---|--|---------------------------------------------------|-------------|
| 5.7.2 | N3 | Adopt good site practice listed below:                                                                                                                                                               | To minimise potential operational noise nuisance. | Within the SENTX Site   | SENTX Contractor |  |  | ✓ |  | Noise Control Ordinance (NCO) and EIAO-TM Annex 5 | Implemented |
|       |    | • Choose quieter PME;                                                                                                                                                                                |                                                   |                         |                  |  |  |   |  | -                                                 | Implemented |
|       |    | • Include noise levels specification when ordering new plant items;                                                                                                                                  |                                                   |                         |                  |  |  |   |  | -                                                 | Implemented |
|       |    | • Locate fixed plant items or noise emission points away from the NSRs as far as practicable;                                                                                                        |                                                   |                         |                  |  |  |   |  | -                                                 | Implemented |
|       |    | • Locate noisy machines in completely enclosed plant rooms or buildings; and                                                                                                                         |                                                   |                         |                  |  |  |   |  | -                                                 | Implemented |
|       |    | • Develop and implement a regularly scheduled plant maintenance programme so that plant items are properly operated and serviced. The programme should be implemented by properly trained personnel. |                                                   |                         |                  |  |  |   |  | -                                                 | Implemented |
| 5.8   | N4 | Weekly noise monitoring                                                                                                                                                                              | Ensure noise generated from the project           | At monitoring locations | SENTX Contractor |  |  | ✓ |  | Noise Control Ordinance (NCO) and                 | Implemented |

| EIA Ref.                                  | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                | Objectives of the Recommended Measure & Main Concerns to address                | Location of the Measures    | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                     | Implementation Status and Remarks                                 |
|-------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------|-------------------------------|-----------------------------------------------|---|-----|---|--------------------------------------------------------------------------------|-------------------------------------------------------------------|
|                                           |          |                                                                                                                                                                                                                                       |                                                                                 |                             |                               | D                                             | C | O/R | A |                                                                                |                                                                   |
|                                           |          |                                                                                                                                                                                                                                       | meets the criteria                                                              | shown in Figure 6.4a        |                               |                                               |   |     |   | EIAO-TM Annex 5                                                                |                                                                   |
| <b>Water Quality – Construction Phase</b> |          |                                                                                                                                                                                                                                       |                                                                                 |                             |                               |                                               |   |     |   |                                                                                |                                                                   |
| 6.8.1                                     | WQ1      | <u>Construction Runoff</u> <ul style="list-style-type: none"> <li>Exposed soil areas will be minimised to reduce the contamination of runoff and erosion.</li> </ul>                                                                  | To minimise potential water quality impacts arising from the construction works | All construction works area | SENTX Contractor              |                                               | ✓ |     |   | ProPECC PN 1/94<br>EIAO-TM Annex 6                                             | Implemented                                                       |
| 6.8.1                                     | WQ2      | <ul style="list-style-type: none"> <li>Perimeter channels will be constructed in advance of site formation works and earthworks and intercepting channels will be provided for example along the edge of excavation.</li> </ul>       | To minimise potential water quality impacts arising from the construction works | All construction works area | SENTX Contractor              | ✓                                             | ✓ |     |   | ProPECC PN 1/94<br>Water Pollution Control Ordinance (WPCO)<br>EIAO-TM Annex 6 | Implemented                                                       |
| 6.8.1                                     | WQ3      | <ul style="list-style-type: none"> <li>Silt removal facilities, channels and manholes will be maintained and the deposited silt and grit should be removed regularly to ensure they are functioning properly at all times.</li> </ul> | To minimise potential water quality impacts arising from the construction works | All construction works area | SENTX Contractor              |                                               | ✓ |     |   | ProPECC PN 1/94<br>WPCO<br>EIAO-TM Annex 6                                     | Deficiency of mitigation measures but rectified by the Contractor |
| 6.8.1                                     | WQ4      | <ul style="list-style-type: none"> <li>Temporary covers such as tarpaulin will also be provided to minimise the</li> </ul>                                                                                                            | To minimise potential water quality impacts arising from the                    | All construction works area | SENTX Contractor              |                                               | ✓ |     |   | ProPECC PN 1/94<br>WPCO                                                        | Implemented                                                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                            | Objectives of the Recommended Measure & Main Concerns to address                | Location of the Measures                      | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                                                             |
|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                   |                                                                                 |                                               |                               | D                                             | C | O/R | A |                                                            |                                                                                               |
|          |          | generation of high SS runoff.                                                                                                                                                                                                                                                                                                                     | construction works                                                              |                                               |                               |                                               |   |     |   |                                                            |                                                                                               |
| 6.8.1    | WQ5      | <ul style="list-style-type: none"> <li>The surface runoff contained any oil and grease will pass through the oil interceptors.</li> </ul>                                                                                                                                                                                                         | To minimise potential water quality impacts arising from the construction works | All construction works area                   | SENTX Contractor              |                                               | ✓ |     |   | ProPECC PN 1/94<br>WPCO<br>EIAO-TM Annex 6                 | Implemented                                                                                   |
| 6.8.1    | WQ6      | <ul style="list-style-type: none"> <li>All sewer and drains will be sealed to prevent building debris, soil etc from entering public sewers/drains before commencing any demolition works</li> </ul>                                                                                                                                              | To minimise potential water quality impacts arising from the demolition works   | Infrastructure area at existing SENT Landfill | SENTX Contractor              |                                               | ✓ |     |   | ProPECC PN 1/94<br>WPCO<br>EIAO-TM Annex 6                 | Not applicable                                                                                |
| 6.8.1    | WQ7      | <ul style="list-style-type: none"> <li>During the excavation works for the twin drainage tunnels, the recycle water for cooling the cutter head of the TBM will be conveyed to the sedimentation tanks for treatment and most of the treated water will be reused, where applicable and as much as possible, in the boring operations.</li> </ul> | To minimise potential water quality impacts arising from the tunnel works       | Tunnel boring sites                           | SENTX Contractor              |                                               | ✓ |     |   | ProPECC PN 1/94<br>WPCO<br>EIAO-TM Annex 6                 | Not applicable. Excavation of drainage tunnels is not required in the latest landfill design. |
| 6.8.1    | WQ8      | <ul style="list-style-type: none"> <li>The fuel and waste lubricant oil from the on-</li> </ul>                                                                                                                                                                                                                                                   | To minimise potential water                                                     | SENTX Site                                    | SENTX Contractor              |                                               | ✓ |     |   | ProPECC PN 1/94                                            | Implemented                                                                                   |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                       | Objectives of the Recommended Measure & Main Concerns to address                                 | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                              |                                                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | site maintenance of machinery and equipment will be collected by a licensed chemical waste collector.                                                        | quality impacts arising from improper handling of fuel and oil                                   |                          |                               |                                               |   |     |   | WPCO Waste Disposal Ordinance (WDO)                        |                                   |
| 6.8.1    | WQ9      | <ul style="list-style-type: none"> <li>Implementation of excavation schedules, lining and covering of excavated stockpiles</li> </ul>                        | To minimise contaminated stormwater run-off from the SENTX Site                                  | All construction works   | SENTX Contractor              |                                               | ✓ |     |   | ProPECC PN 1/94 WPCO EIAO-TM Annex 6                       | Implemented                       |
| 6.13     | WQ10     | <ul style="list-style-type: none"> <li>Monitoring of surface water quality will be conducted on a regular basis as stated in the EM&amp;A Manual.</li> </ul> | To minimise potential water quality impacts on surface water arising from the construction works | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | WPCO Water-TM                                              | Implemented                       |
| 6.8.2    | WQ11     | <u>Sewage Effluents</u> <ul style="list-style-type: none"> <li>Sufficient chemical toilets will be provided for the construction workforce.</li> </ul>       | To minimise potential water quality impacts arising from the sewage effluents                    | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | WPCO                                                       | Implemented                       |
| 6.8.2    | WQ12     | <ul style="list-style-type: none"> <li>Untreated sewage will not be allowed to discharge into the surrounding water body.</li> </ul>                         | To minimise potential water quality impacts arising from the sewage effluents                    | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | WPCO WDO                                                   | Implemented                       |
| 6.8.2    | WQ13     | <ul style="list-style-type: none"> <li>A licensed waste collector</li> </ul>                                                                                 | To minimise potential water                                                                      | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | WPCO                                                       | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures             | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                    |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | will be employed to clean the chemical toilets on a regular basis. | quality impacts arising from the sewage effluents                |                          |                               |                                               |   |     |   | WDO                                                        |                                   |

### Water Quality – Operation/Restoration and Aftercare Phases

|       |      |                                                                                                                                                                                                                                                                            |                                                                                                    |            |                  |  |  |   |   |                                                                                                                                                       |             |
|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------|------------------|--|--|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 6.9.1 | WQ14 | <u>Surface Water Management</u> <ul style="list-style-type: none"> <li>Inspections of the drainage system, sand traps, settlement ponds and surface water channels will be performed regularly to identify areas necessary for maintenance, cleaning or repair.</li> </ul> | To minimise potential water quality impacts on surface water arising from the landfill operations. | SENTX Site | SENTX Contractor |  |  | ✓ |   | WPCO Technical Memorandum Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Inshore Waters (Water-TM) EIAO-TM Annex 6 | Implemented |
| 6.9.1 | WQ15 | <ul style="list-style-type: none"> <li>Regular maintenance and replacement, if required, of the HDPE liner will be conducted to prevent degradation from affecting the performance of the capping system.</li> </ul>                                                       | To minimise potential water quality impacts on surface water arising from the landfill operations. | SENTX Site | SENTX Contractor |  |  | ✓ |   | WPCO Water-TM EIAO-TM Annex 6                                                                                                                         | Implemented |
| 6.9.1 | WQ16 | <ul style="list-style-type: none"> <li>Monitoring of surface water quality will be conducted on a regular</li> </ul>                                                                                                                                                       | To minimise potential water quality impacts on surface water                                       | SENTX Site | SENTX Contractor |  |  | ✓ | ✓ | WPCO Water-TM                                                                                                                                         | Implemented |

| EIA Ref.                      | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                        | Objectives of the Recommended Measure & Main Concerns to address                                 | Location of the Measures         | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|-------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                               |          |                                                                                                                                                                                                                                               |                                                                                                  |                                  |                               | D                                             | C | O/R | A |                                                            |                                   |
|                               |          | basis as stated in the EM&A Manual.                                                                                                                                                                                                           | arising from the landfill operations.                                                            |                                  |                               |                                               |   |     |   |                                                            |                                   |
| 6.9.2 and SENTX latest design | WQ17     | <u>Groundwater Management</u> <ul style="list-style-type: none"> <li>The groundwater management facilities including the groundwater monitoring wells will be inspected regularly during routine groundwater monitoring programme.</li> </ul> | To minimise potential water quality impacts on groundwater arising from the landfill operations. | SENTX Site                       | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM<br>EIAO-TM Annex 6                           | Implemented                       |
| 6.9.2                         | WQ18     | <ul style="list-style-type: none"> <li>Monitoring of groundwater water quality will be conducted on a regular basis as stated in the EM&amp;A Manual.</li> </ul>                                                                              | To minimise potential water quality impacts on groundwater arising from the landfill operations. | SENTX Site                       | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM<br>EIAO-TM Annex 6                           | Implemented                       |
| SENTX latest design           | WQ19     | <u>Sewage</u> <ul style="list-style-type: none"> <li>All sewage from the operation staff will be diverted to the LTP for treatment or public sewer, if available.</li> </ul>                                                                  | To ensure proper handling of sewage                                                              | SENTX Site                       | SENTX Contractor              |                                               |   | ✓   | ✓ | -                                                          | Implemented                       |
| 6.9.3                         | WQ20     | <u>Leachate Management</u> <ul style="list-style-type: none"> <li>The leachate pump houses and related ancillary</li> </ul>                                                                                                                   | To minimise potential water quality impacts on surrounding                                       | Leachate pump houses and related | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM<br>EIAO-TM Annex 6                           | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                      | Objectives of the Recommended Measure & Main Concerns to address                                              | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                             |                                                                                                               |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | equipment will be inspected regularly and repairs, if necessary.                                                                                                                                            | water bodies arising from the landfill operations.                                                            | ancillary equipment      |                               |                                               |   |     |   |                                                            |                                   |
| 6.9.3    | WQ21     | <ul style="list-style-type: none"> <li>For equipment such as pumps that require routine scheduled maintenance, the maintenance will be performed following manufacturer's recommended frequency.</li> </ul> | To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations. | Leachate pumps           | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM                                              | Implemented                       |
| 6.9.3    | WQ22     | <ul style="list-style-type: none"> <li>Preventive maintenance will be implemented so that the possibility for forced shutdown during wet season will be kept to minimal.</li> </ul>                         | To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations. | Leachate treatment plant | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM<br>EIAO-TM Annex 6                           | Implemented                       |
| 6.9.3    | WQ23     | <ul style="list-style-type: none"> <li>Emergency procedures or a contingency plan will be established when the LTP is malfunctioned.</li> </ul>                                                             | To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations. | Leachate treatment plant | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM<br>EIAO-TM Annex 6                           | Implemented                       |

| EIA Ref.                      | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                          | Objectives of the Recommended Measure & Main Concerns to address                                              | Location of the Measures                 | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|-------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                               |          |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                               |                                          |                               | D                                             | C | O/R | A |                                                            |                                   |
| 6.9.3 and SENTX latest design | WQ24     | <ul style="list-style-type: none"> <li>There will be sufficient redundancy in the system to handle the leachate flow even if one treatment train is down for maintenance. The leachate may be required to temporarily store within the landfill if the leachate storage lagoon are full and leachate cannot be transported to the LTP for treatment.</li> </ul> | To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations. | Leachate treatment plant                 | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM<br>EIAO-TM Annex 6                           | Implemented                       |
| 6.13                          | WQ25     | <ul style="list-style-type: none"> <li>Monitor the quality of effluent discharged from the LTP</li> </ul>                                                                                                                                                                                                                                                       | To ensure discharge quality comply with WPCO requirement                                                      | Leachate treatment plant discharge point | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM                                              | Implemented                       |
| 6.10.1                        | WQ26     | <u>Potential Leakage of Leachate</u> <ul style="list-style-type: none"> <li>Regular groundwater quality monitoring will be carried out to monitor the performance of the leachate containment system.</li> </ul>                                                                                                                                                | To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations. | SENTX Site                               | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM                                              | Implemented                       |
| 6.10.1                        | WQ27     | <ul style="list-style-type: none"> <li>Maintenance and replacement of the capping system should be</li> </ul>                                                                                                                                                                                                                                                   | To minimise potential water quality impacts on surrounding                                                    | SENTX Site                               | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM                                              | Implemented                       |

| EIA Ref.                                     | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                  | Objectives of the Recommended Measure & Main Concerns to address                                                   | Location of the Measures           | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                                                     | Implementation Status and Remarks |
|----------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|----------------------------------------------------------------------------------------------------------------|-----------------------------------|
|                                              |          |                                                                                                                                                                                                         |                                                                                                                    |                                    |                               | D                                             | C | O/R | A |                                                                                                                |                                   |
|                                              |          | carried out, if necessary, to prevent control infiltration and leachate seepage from any damaged cap.                                                                                                   | water bodies arising from the leachate leakage.                                                                    |                                    |                               |                                               |   |     |   | EIAO-TM Annex 6                                                                                                |                                   |
| 6.10.1                                       | WQ28     | <ul style="list-style-type: none"> <li>Maintaining control of the leachate level through extraction</li> </ul>                                                                                          | To minimise potential water quality impacts on surrounding water bodies arising from surface breakout of leachate. | SENTX Site                         | SENTX Contractor              |                                               |   | ✓   | ✓ | WPCO Water-TM<br>EIAO-TM Annex 6                                                                               | Implemented                       |
| <b>Waste Management – Construction Phase</b> |          |                                                                                                                                                                                                         |                                                                                                                    |                                    |                               |                                               |   |     |   |                                                                                                                |                                   |
| 7.6.1                                        | WM1      | All the necessary waste disposal permits are obtained prior to the commencement of construction work.                                                                                                   | To ensure compliance with relevant statutory requirements                                                          | Before construction works commence | SENTX Contractor              | ✓                                             | ✓ |     |   | WDO                                                                                                            | Implemented                       |
| 7.6.1                                        | WM2      | <u>Management of Waste Disposal</u><br><br>The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste | To ensure that adverse environmental impacts are prevented                                                         | SENTX Site                         | SENTX Contractor              |                                               | ✓ |     |   | WDO<br>Waste Disposal (Charges for Disposal of Construction Waste) Regulation; Works Bureau Technical Circular | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                      | Implementation Status and Remarks |
|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|---------------------------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |                          |                               | D                                             | C | O/R | A |                                                                                 |                                   |
|          |          | <p>disposal facilities such as public fill reception facilities, sorting facilities, landfills will required a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer. A trip-ticket system will also be established to monitor the disposal of construction waste at the SENT Landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.</p> <p>A recording system for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established.</p> |                                                                  |                          |                               |                                               |   |     |   | <i>No.31/2004; and Annex 5 and Annex 6 of Appendix G of ETWBTC No. 19/2005)</i> |                                   |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                               | Implementation Status and Remarks |
|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                          |                               | D                                             | C | O/R | A |                                                                                          |                                   |
| 7.6.1    | WM3      | <u>Measures for the reduction of construction waste generation</u><br><br>Inert and non-inert construction waste will be segregated and stored in different containers or skips to facilitate reuse or recycling of the inert waste and proper disposal of the non-inert construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable. | To reduce construction waste generation                          | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | WDO<br>EIAO-TM Annex 7                                                                   | Implemented                       |
| 7.6.1    | WM4      | <u>Chemical Waste</u><br><br>The construction contractor will register as a chemical waste producer with the EPD. Chemical waste will be handled in accordance with the <i>Code of Practice on the Packaging, Handling and Storage of Chemical Wastes</i> .                                                                                                                                                           | To ensure proper handling of chemical waste                      | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | WDO<br><i>Code of Practice on the Packaging, Handling and Storage of Chemical Wastes</i> | Implemented                       |

| EIA Ref.                      | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                   | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                               |          |                                                                                                                                                                                                                                                                                                                                                                          |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
| 7.6.1                         | WM5      | <u>Sewage</u><br>An adequate number of portable toilets will be provided at the site to ensure that sewage from site staff is properly collected. The portable toilets will be desludged and maintained regularly by a specialist contractor.                                                                                                                            | To ensure proper handling of sewage                              | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | WDO<br>EIAO-TM Annex 7                                     | Implemented                       |
| 7.6.1 and SENTX latest design | WM6      | <u>General Refuse</u><br>General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to a transfer station or other landfill, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.<br><br>Recycling bins will be provided at strategic | To ensure proper handling of general refuse                      | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | WDO<br>EIAO-TM Annex 7                                     | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                           | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                  |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | locations to facilitate recovery of aluminium can and waste paper from the SENTX Site. Materials recovered will be sold for recycling.                                                                                                           |                                                                  |                          |                               |                                               |   |     |   |                                                            |                                   |
| 7.6.1    | WM7      | <u>Staff Training</u><br>At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling. | To ensure that adverse environmental impacts are prevented       | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   |                                                            | Implemented                       |
| 7.8      | WM8      | <u>Environmental Monitoring &amp; Audit Requirements</u><br>Weekly audits of the waste management practices will be carried out during the construction phase. The audits examine all aspects of waste management including                      | To ensure that adverse environmental impacts are prevented       | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | WDO                                                        | Implemented                       |

| EIA Ref.                                              | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                  | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                                                  | Implementation Status and Remarks |
|-------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|-------------------------------------------------------------------------------------------------------------|-----------------------------------|
|                                                       |          |                                                                                                                                                                                                                                                                                         |                                                                  |                          |                               | D                                             | C | O/R | A |                                                                                                             |                                   |
|                                                       |          | waste generation, storage, recycling, transport and disposal.                                                                                                                                                                                                                           |                                                                  |                          |                               |                                               |   |     |   |                                                                                                             |                                   |
| <b>Waste Management – Operation/Restoration Phase</b> |          |                                                                                                                                                                                                                                                                                         |                                                                  |                          |                               |                                               |   |     |   |                                                                                                             |                                   |
| 7.6.2 and SENTX latest design                         | WM9      | <u>Sludge</u><br>In case off-site disposal is required, the Contractor will ensure that sludge generated from the LTP will be delivered in closed container to other waste disposal facility e.g. other landfills or a sludge treatment facility, for proper disposal on a daily basis. | To ensure proper handling of sludge                              | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | WDO<br>EIAO-TM Annex 7                                                                                      | Not applicable                    |
| 7.6.2                                                 | WM10     | <u>Chemical Waste</u><br>The construction contractor will register as a chemical waste producer with the EPD. Chemical waste will be handled in accordance with the <i>Code of Practice on the Packaging, Handling and Storage of Chemical Wastes</i> .                                 | To ensure proper handling of chemical waste                      | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | WDO<br>EIAO-TM Annex 7<br><i>Code of Practice on the Packaging, Handling and Storage of Chemical Wastes</i> | Implemented                       |

| EIA Ref.                      | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                               | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                                                                                     |
|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
|                               |          |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                                                                                                       |
| 7.6.2                         | WM11     | <u>Sewage</u><br>All sewage from the operation staff will be diverted to the LTP for treatment or public sewer, if available.                                                                                                                                                                                                                                                        | To ensure proper handling of sewage                              | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | WDO<br>EIAO-TM Annex 7                                     | Moved to mitigation measure under water quality WQ19. It is a measure for water quality rather than waste management. |
| 7.6.2 and SENTX latest design | WM12     | <u>General Refuse</u><br>General refuse will be stored in enclosed bins and disposed of at other landfills or transfer station on a daily basis to reduce odour, pest and litter impacts.<br><br>Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the SENTX Site. Materials recovered will be sold for recycling. | To ensure proper handling of general refuse                      | SENTX Site               | SENTX Contractor              |                                               |   | ✓   |   | WDO<br>EIAO-TM Annex 7                                     | Implemented                                                                                                           |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                        |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |

### Landfill Gas Hazards – Design and Construction Phase

|                               |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                                                   |                  |  |   |  |  |                                                                                                     |             |
|-------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------|------------------|--|---|--|--|-----------------------------------------------------------------------------------------------------|-------------|
| 8.6.2 and SENTX latest design | LFG1 | Precautionary measures to be adopted by the contractors at the Project site and the adjacent development site within the landfill consultation zone are outlined in Paragraphs 8.3 to 8.49 of EPD's <i>Landfill Gas Hazard Assessment Guidance Notes (the Guidance Note)</i> . Those precautionary measures applicable to the SENTX will be confirmed in the detailed Qualitative Landfill Gas Hazard Assessment to be submitted by the contractor. | To protect workers from landfill gas risk | All construction works area                       | SENTX Contractor |  | ✓ |  |  | <i>Paragraphs 8.3 to 8.49 of EPD's Landfill Gas Hazard Assessment Guidance Note EIAO-TM Annex 7</i> | Implemented |
| 8.6.2                         | LFG2 | Monitoring will be undertaken when construction works are carried out in confined space within the consultation zone with reference to the monitoring requirements and procedures specified in                                                                                                                                                                                                                                                      | To protect workers from landfill gas risk | Confined space within the construction works area | SENTX Contractor |  | ✓ |  |  |                                                                                                     | Implemented |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | <p>Paragraphs 8.23 to 8.28 of EPD's <i>Guidance Note</i> will be followed.</p> <p>In the event of the trigger levels being exceeded, it is recommended that a person, such as the Safety Officer, is nominated, with deputies, to be responsible for dealing with any emergency which may occur due to landfill gas. In an emergency situation, the nominated person, or his deputies, shall have the necessary authority and shall ensure that the confined space is evacuated and the necessary works implemented for reducing the concentrations of gas. The appropriate organisations shall be contact.</p> |                                                                  |                          |                               |                                               |   |     |   |                                                            |                                   |
| 8.6.3    | LFG4     | Implementation of engineering measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | To protect workers from landfill gas risk                        | SENTX Site               | SENTX Contractor              | ✓                                             | ✓ | ✓   | ✓ | <i>EIAO-TM Annex 7</i>                                     | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                      | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                 | Implementation Status and Remarks |
|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|----------------------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                  |                          |                               | D                                             | C | O/R | A |                                                                            |                                   |
|          |          | according to Contract Specification requirements. These measures will include the placement of liner and installation of landfill gas management system to contain, manage and control landfill gas.                                                                                                                                                                                                                                        |                                                                  |                          |                               |                                               |   |     |   |                                                                            |                                   |
| 8.6.3    | LFG5     | Engineering measures to significant engineering measures will be required in the design of the SENTX to protect the staff working in the infrastructure area. These measures include a combination of passive and active systems (examples are recommended in EPD's <i>Guidance Notes</i> ).<br><br>Landfill gas monitoring boreholes will be installed at the edge of the waste slope between the waste and the new infrastructure area to | To protect workers from landfill gas risk                        | Infrastructure Area      | SENTX Contractor              | ✓                                             | ✓ |     |   | EPD's <i>Landfill Gas Hazards Assessment Guidance Note EIAO-TM Annex 7</i> | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                        |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | monitor the migration of landfill gas, if any.         |                                                                  |                          |                               |                                               |   |     |   |                                                            |                                   |

#### Landfill Gas Hazards – Operation, Restoration and Aftercare Phases

|                             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                               |                  |  |  |   |   |                                               |             |
|-----------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------|------------------|--|--|---|---|-----------------------------------------------|-------------|
| 8.6.4                       | LFG7 | To train and ensure staff to take appropriate precautions at all times when entering enclosed spaces or plant rooms. Undertake regular monitoring of landfill gas at the perimeter boreholes to detect if there are any signs of off-site landfill gas migration. Prepare and implement emergency plan in case off-site landfill gas migration is detected.<br><br>A permanent gas monitoring system with alarm will be installed and operated in all occupied on-site buildings. | To protect workers from landfill gas risk | SENTX Site                                    | SENTX Contractor |  |  | ✓ | ✓ | Landfill Gas Hazards Assessment Guidance Note | Implemented |
| 8.7 and SENTX latest design | LFG8 | <u>Environmental Monitoring &amp; Audit Requirements</u><br><br>Undertake regular monitoring of landfill gas within the                                                                                                                                                                                                                                                                                                                                                           | To protect workers from landfill gas risk | Within the SENTX and along the SENTX boundary | SENTX Contractor |  |  | ✓ | ✓ | Landfill Gas Hazards Assessment Guidance Note | Implemented |

| EIA Ref.                            | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                  | Objectives of the Recommended Measure & Main Concerns to address           | Location of the Measures    | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve?                                         | Implementation Status and Remarks |
|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|-------------------------------|-----------------------------------------------|---|-----|---|----------------------------------------------------------------------------------------------------|-----------------------------------|
|                                     |          |                                                                                                                                                                                                                                                                                                         |                                                                            |                             |                               | D                                             | C | O/R | A |                                                                                                    |                                   |
|                                     |          | SENTX and along the SENTX boundary as required by the Contract Specification.                                                                                                                                                                                                                           |                                                                            |                             |                               |                                               |   |     |   |                                                                                                    |                                   |
| <b>Ecology – Construction Phase</b> |          |                                                                                                                                                                                                                                                                                                         |                                                                            |                             |                               |                                               |   |     |   |                                                                                                    |                                   |
| 9.10.2                              | EC1      | Measures to control construction runoff: <ul style="list-style-type: none"> <li>Exposed soil areas will be minimised to reduce the contamination of runoff and erosion;</li> </ul>                                                                                                                      | To minimise potential water quality impacts affecting ecological resources | All construction works area | SENTX Contractor              |                                               | ✓ |     |   | EIAO-TM Annex 16<br>ProPECC PN 1/94<br>Water Pollution Control Ordinance (WPCO)<br>EIAO-TM Annex 6 | Implemented                       |
|                                     |          | <ul style="list-style-type: none"> <li>To prevent stormwater runoff from washing across exposed soil surfaces, perimeter channels will be constructed in advance of site formation works and earthworks and intercepting channels will be provided for example along the edge of excavation;</li> </ul> |                                                                            |                             |                               |                                               |   |     |   | -                                                                                                  | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                 | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks                                 |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-------------------------------------------------------------------|
|          |          |                                                                                                                                                                                                                                                        |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                                                   |
|          |          | <ul style="list-style-type: none"> <li>Silt removal facilities, channels and manholes will be maintained and the deposited silt and grit will be removed regularly to ensure they are functioning properly at all times;</li> </ul>                    |                                                                  |                          |                               |                                               |   |     |   | -                                                          | Deficiency of mitigation measures but rectified by the Contractor |
|          |          | <ul style="list-style-type: none"> <li>Temporary covers such as tarpaulin will also be provided to minimise the generation of high suspended solids runoff;</li> </ul>                                                                                 |                                                                  |                          |                               |                                               |   |     |   | -                                                          | Implemented                                                       |
|          |          | <ul style="list-style-type: none"> <li>The surface runoff contained any oil and grease will pass through the oil interceptors; and,</li> </ul>                                                                                                         |                                                                  |                          |                               |                                               |   |     |   | -                                                          | Implemented                                                       |
|          |          | <ul style="list-style-type: none"> <li>Control measures, including implementation of excavation schedules, lining and covering of excavated stockpiles will be implemented to minimise contaminated stormwater run-off from the SENTX site.</li> </ul> |                                                                  |                          |                               |                                               |   |     |   | -                                                          | Implemented                                                       |

| EIA Ref.                                                     | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                    | Objectives of the Recommended Measure & Main Concerns to address              | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|--------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                                                              |          |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                               |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
| 9.10.2 and SENTX latest design                               | EC2      | <u>Good Construction Practice:</u> <ul style="list-style-type: none"> <li>Fences along the boundary of the SENTX Site will be erected before the commencement of works to prevent vehicle movements, and encroachment of personnel, onto adjacent areas.</li> <li>The work site boundaries will be regularly checked to ensure that they are not breached and that damage does not occur to surrounding areas.</li> </ul> | To minimise potential ecological impacts arising from the Project             | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | EIAO-TM Annex 16                                           | Implemented                       |
| <b>Ecology – Operation, Restoration and Aftercare Phases</b> |          |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                               |                          |                               |                                               |   |     |   |                                                            |                                   |
| 9.10.2                                                       | EC3      | <u>Measures for Controlling Leakage of Landfill Leachate</u><br>Leachate will be contained within the SENTX Site by the proposed impermeable leachate containment system and collected by the installation of drainage system to prevent potential                                                                                                                                                                        | To minimise potential water quality impact affecting the ecological resources | SENTX Site               | SENTX Contractor              |                                               |   | ✓   | ✓ | EIAO-TM Annex 16<br>WPCO<br>Water-TM<br>EIAO-TM Annex 6    | Implemented                       |

| EIA Ref.                       | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                       | Objectives of the Recommended Measure & Main Concerns to address            | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|--------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                                |          |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|                                |          | migration of leachate to habitats in the vicinity.                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |                          |                               |                                               |   |     |   |                                                            |                                   |
| 9.10.2                         | EC4      | <u>Measures for Controlling Migration of Landfill Gas</u><br><br>Disturbance to habitat in the vicinity and associated wildlife due to migration of landfill gas will be prevented by proper management of the landfill gas generated from the SENTX. Ignition fires will be prohibited to occur within the boundary of the SENTX Site. Surface emission and off-site migration of landfill gas will be regularly monitored. | To minimise potential landfill gas migration affecting ecological resources | SENTX Site               | SENTX Contractor              |                                               |   | ✓   | ✓ | EIAO-TM Annex 16                                           | Implemented                       |
| 9.10.3 and SENTX latest design | EC5      | The following compensation planting is recommended as the mitigation measures for the habitat affected due to the SENTX:<br><br><ul style="list-style-type: none"> <li>Provision of 6 ha of mixed woodland planting</li> </ul>                                                                                                                                                                                               | Compensation of habitat loss due to the Project                             | SENTX Site               | SENTX Contractor              |                                               |   | ✓   | ✓ | EIAO-TM Annex 16                                           | Not applicable                    |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                            | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                   |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | <p>to compensate the loss of shrubland; and</p> <ul style="list-style-type: none"> <li>Provision of a mosaic of grassland and shrubland in the remaining areas of the SENTX Site.</li> <li>Compensatory planting and restoration of the SENTX can be implemented progressively according to the filling plan of SENTX.</li> </ul> |                                                                  |                          |                               |                                               |   |     |   |                                                            |                                   |
| 9.10.3   | EC6      | The mixture of grassland, shrubland and woodland habitats are recommended to diversify the habitats for supporting various wildlife in particular butterflies, birds and herpetofauna and blend into the existing undisturbed ecological environment.                                                                             | To diversify habitats                                            | SENTX Site               | SENTX Contractor              |                                               |   | ✓   | ✓ | EIAO-TM Annex 16                                           | Not applicable                    |
| 9.10.3   | EC7      | Indigenous plant species of shallow root system, softwood in nature and adaptive to sea shore habitat are recommended to be used                                                                                                                                                                                                  | To enhance ecological value of the habitats                      | SENTX Site               | SENTX Contractor              |                                               |   | ✓   | ✓ | EIAO-TM Annex 16                                           | Not applicable                    |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | in the restoration plan, which can establish well in coastal area with exposure to strong wind and salt spray, with sand soil base. Taking consideration of the relative poor substrate and the difficulties of establishment of some native trees in Hong Kong, it is recommended to include approximately 20% of non-native tree species in the compensatory woodland. The non-native tree species can serve as a nurse species to facilitate the establishment of the native tree species, especially the shading, and it can be replaced by established native tree species progressively. Plant species can also make reference to food plants of butterfly species (in particularly butterfly species of conservation interests |                                                                  |                          |                               |                                               |   |     |   |                                                            |                                   |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Objectives of the Recommended Measure & Main Concerns to address  | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                   |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | recorded within the CWBCP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                   |                          |                               |                                               |   |     |   |                                                            |                                   |
| 9.10.3   | EC8      | It is also recommended that a trial nursery for native plant species be set up to fine tune the planting matrix and management intensity of the recommended indigenous tree species for the restoration of the SENTX. It should be noted that native shrubs and tree species had been used for restoration of the existing SENT Landfill, native plant species that could not successfully be established on the existing SENT Landfill should be reviewed before the preparation of the compensatory planting list. Special care and intensive management of native plant should be implemented in order to ensure proper establishment of the native | To select the most suitable indigenous tree species for the SENTX | SENTX Site               | SENTX Contractor              | ✓                                             |   | ✓   | ✓ | EIAO-TM Annex 16                                           | Implemented                       |

| EIA Ref.                                         | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                  | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures    | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|--------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                                                  |          |                                                                                                                                                                                                                                         |                                                                  |                             |                               | D                                             | C | O/R | A |                                                            |                                   |
|                                                  |          | plants.                                                                                                                                                                                                                                 |                                                                  |                             |                               |                                               |   |     |   |                                                            |                                   |
| 9.12.1                                           | EC9      | <u>Environmental Monitoring &amp; Audit Requirements</u><br><br>The implementation of the ecological mitigation measures should be checked as part of the environmental monitoring and audit procedures during the construction period. | To ensure that adverse ecological impacts are prevented          | SENTX                       | SENTX Contractor              |                                               | ✓ | ✓   | ✓ | EIAO-TM Annex 16                                           | Implemented                       |
| <b>Landscape and Visual – Construction Phase</b> |          |                                                                                                                                                                                                                                         |                                                                  |                             |                               |                                               |   |     |   |                                                            |                                   |
| 10.6.5                                           | LV1      | CM1 - The construction area and area allowed for the contractor's office, leachate treatment plant and laboratory areas will be minimised to a practical minimum, to avoid impacts on adjacent landscape.                               | To minimise the landscape and visual impacts                     | SENTX Site                  | SENTX Contractor              |                                               | ✓ |     |   | EIAO-TM Annex 18 and ETWBC 3/2006                          | Implemented                       |
| 10.6.5                                           | LV2      | CM2 - Topsoil, where identified, will be stripped and stored for re-use in the construction of the soft                                                                                                                                 | To minimise the landscape and visual impacts                     | All construction works area | SENTX Contractor              |                                               | ✓ |     |   | EIAO-TM Annex 18                                           | Not applicable                    |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                       | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | landscape works, where practical. The Contract Specification will include storage and reuse of topsoil as appropriate.                                                                                                                                                                                                                                                                                                                                       |                                                                  |                          |                               |                                               |   |     |   |                                                            |                                   |
| 10.6.5   | LV3      | CM3 - All existing trees at the edges of the landfill will be carefully protected during construction. Detailed Tree Protection Specification will be provided in the Contract Specification. Under this Specification, the Contractor will be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. | To minimise the landscape and visual impacts                     | Potential impacted area  | SENTX Contractor              |                                               | ✓ |     |   | <i>EIAO-TM Annex 18 and ETWBC 3/2006</i>                   | Implemented                       |
| 10.6.5   | LV4      | CM4 - Trees unavoidably affected by the works will be transplanted, where                                                                                                                                                                                                                                                                                                                                                                                    | To minimise the landscape and visual impacts                     | Potential impacted area  | SENTX Contractor              | ✓                                             | ✓ |     |   | <i>EIAO-TM Annex 18 and ETWBC 3/2006</i>                   | Implemented                       |

| EIA Ref.                       | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                       | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures       | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|--------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                                |          |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                  |                                |                               | D                                             | C | O/R | A |                                                            |                                   |
|                                |          | necessary and practical. A detailed Tree Transplanting Specification will be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods will be allowed in the project programme.                                                                                                                                          |                                                                  |                                |                               |                                               |   |     |   |                                                            |                                   |
| 10.6.5 and SENTX latest design | LV5      | CM5 - Within 3 months of taking possession of the SENTX Site, the Contractor will plant advance screen planting of native species at Light Standard size at 1.5m centres along the High Junk Peak Trail so as to screen views of the Works from the trail. Tree planting locations will be agreed with AFCD. Works will be completed within 9 months of taking possession of the SENTX Site. | To minimise the landscape and visual impacts                     | At High Junk Peak Hiking Trail | SENTX Contractor              |                                               | ✓ |     |   | EIAO-TM Annex 18                                           | Implemented                       |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                        | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
| 10.6.5   | LV6      | CM6 - The Contractor's office, leachate treatment plant and laboratory will be given an aesthetic treatment in earth tones to reduce their visual impact and albedo and blend them into the surrounding landscape.                                                                                                                                                                                                                            | To minimise the landscape and visual impacts                     | Infrastructure area      | SENTX Contractor              | ✓                                             | ✓ |     |   | EIAO-TM Annex 18                                           | Implemented                       |
| 10.6.5   | LV7      | CM7 - The Contractor's office, leachate treatment plant and laboratory will be surrounded by a minimum of 5m wide and 0.75m high earth bund on the west and south sides planted with a dense screen of tree and shrub vegetation. Additional tree planting will be provided in unused spaces with thin infrastructure site, along access roads and in and around car parks. This will be supplemented with shrub planting, where appropriate. | To minimise the landscape and visual impacts                     | Infrastructure area      | SENTX Contractor              | ✓                                             | ✓ |     |   | EIAO-TM Annex 18 and ETWBC 7/2002                          | Not applicable                    |

| EIA Ref.                                                  | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                                                           | Objectives of the Recommended Measure & Main Concerns to address                | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|-----------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                                                           |          |                                                                                                                                                                                                                                                  |                                                                                 |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
| 10.6.5                                                    | LV8      | CM8 - Planting trials will be carried out in an on-site nursery prior to implementation of the first phase of restoration to establish the best planting matrix and management intensity of the recommended plant materials for the restoration. | To minimise the landscape and visual impacts                                    | SENTX Site               | SENTX Contractor              |                                               | ✓ |     |   | EIAO-TM Annex 18                                           | Implemented                       |
| 11.4.1 and SENTX latest design                            | LV9      | During the preparation of the detailed landscape design plan, the design submission will be audited against the recommendation proposed in the <i>ER Report</i> by the Registered Landscape Architect from the ET.                               | To ensure the implementation of mitigation measures proposed in this EIA Report | SENTX Site               | SENTX Contractor/ET           | ✓                                             | ✓ |     |   | EIAO-TM Annex 18                                           | Implemented                       |
| <b>Landscape and Visual – Operation/Restoration Phase</b> |          |                                                                                                                                                                                                                                                  |                                                                                 |                          |                               |                                               |   |     |   |                                                            |                                   |
| 10.6.5 and SENTX latest design                            | LV10     | OM1 - Landfill materials will be covered with general fill material or tarpaulin sheet on a daily basis to reduce visual impact.                                                                                                                 | To minimise the landscape and visual impacts                                    | Tipping area             | SENTX Contractor              |                                               |   | ✓   |   | EIAO-TM Annex 18                                           | Implemented                       |

| EIA Ref.                       | EM&A Ref | Environmental Protection Measures/ Mitigation Measures                                                                                                                                                   | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|--------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|                                |          |                                                                                                                                                                                                          |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
| 10.6.5 and SENTX latest design | LV11     | OM2 - Filling and restoration will be phased during the course of operations in a minimum of 4 phases, the restoration of each phase to commence immediately on the completion of filling in that phase. | To minimise the landscape and visual impacts                     | Tipping area             | SENTX Contractor              |                                               |   | ✓   |   | EIAO-TM Annex 18                                           | Implemented                       |
| 10.6.5                         | LV12     | OM3 - Catch fences will be erected at the perimeter of the waste boundary, to ensure that all waste stays within the site and is not blown into surrounding areas.                                       | To minimise the landscape and visual impacts                     | Tipping area             | SENTX Contractor              |                                               |   | ✓   |   | EIAO-TM Annex 18                                           | Implemented                       |
| 10.6.5                         | LV13     | OM4 - All night-time lighting will be reduced to a practical minimum both in terms of number of units and lux level and will be hooded and directional.                                                  | To minimise the landscape and visual impacts                     | Tipping area             | SENTX Contractor              |                                               |   | ✓   |   | EIAO-TM Annex 18                                           | Implemented                       |
| 11.4.2 and SENTX latest design | LV14     | <ul style="list-style-type: none"> <li>The condition of the restoration plantation will be audited at monthly intervals by a Registered</li> </ul>                                                       | To check the restoration plantation                              | SENTX Site               | SENTX Contractor/ET           |                                               |   | ✓   |   | EIAO-TM Annex 18                                           | Not applicable                    |

| EIA Ref. | EM&A Ref | Environmental Protection Measures/ Mitigation Measures | Objectives of the Recommended Measure & Main Concerns to address | Location of the Measures | Who to implement the measure? | When to implement the measure? <sup>(1)</sup> |   |     |   | What requirements or standards for the measure to achieve? | Implementation Status and Remarks |
|----------|----------|--------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------------|---|-----|---|------------------------------------------------------------|-----------------------------------|
|          |          |                                                        |                                                                  |                          |                               | D                                             | C | O/R | A |                                                            |                                   |
|          |          | Landscape Architect from the ET.                       |                                                                  |                          |                               |                                               |   |     |   |                                                            |                                   |