

5. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 5.1 Environmental monitoring works were performed in this reporting month and all monitoring results were checked and reviewed.
- 5.2 A total of twenty-two events showing exceedances of Action/Limit Levels for suspended solids (SS) were recorded at the monitoring stations W1, W2 and W3 on 4th, 5th, 6th, 10th, 11th, 18th, 20th, 23rd, 24th and 30th in the reporting month.
- 5.3 There were three events showing exceedances of Action/Limit Levels for turbidity recorded at the monitoring stations W1, W2 and W3 on 30th in the reporting month.
- 5.4 A total of forty-nine events showing exceedances of Action/Limit Levels for dissolved oxygen (DO) at the monitoring stations W1, W2 and W3 were recorded on 5th, 6th, 9th, 10th, 11th, 17th, 18th, 23rd, 24th, 27th and 30th in the reporting month.
- 5.5 For the continuous water quality monitoring at station WS, there was one event showing exceedances of Action/Limit levels for turbidity on 30th August 2004. Six events showing exceedances of Action/Limit levels for DO levels were recorded on 10th, 11th, 17th, 23rd, 24th, and 30th in the reporting month.
- 5.6 According to the ET's investigation, no direct evidence demonstrating that the exceedances of Action/Limit levels for SS and turbidity on 4th, 5th, 10th, 11th, 18th, 20th and 30th were caused by the Project was identified. The cause of exceedances might be due to the high natural background outside Sum Wan, as the SS levels of station W1 (the closest monitoring station to the Project area) were lower than those of stations W2 (Control Station during the mid-ebb tide) and W3 (Control Station during the mid-flood tide).
- 5.7 However, Limit Level exceedances of SS were recorded during ebb-tide on 6th, 23rd and 24th August 2004 at stations W1, W2 and W3. The causes of the exceedances were likely due to the effluent from the piling works for the permanent jetty as the SS levels of station W1 were higher than that of station W2. The exceedances were therefore considered to be valid.
- 5.8 All the exceedances of Action/Limit levels for DO were unlikely due to the Project owing to the high water temperature during the reporting month. It is understood that the concentration of DO decreases with the increasing water temperature.
- 5.9 ET Leader informed all relevant parties and identified the cause of exceedances. Proper mitigation measures were recommended to the Contractor to improve the situation:
- collecting and diverting the effluent to the sedimentation tank prior to discharge;
 - regular desilting of the sedimentation facilities and good site house keeping;
 - taking preventive measures to avoid the materials/debris on the temporary jetty from flushing into the sea during high tide days;

- 5.10 It was noted that an additional silt curtain was installed in the reporting month.
- 5.11 Monthly site audit was performed in the reporting month on 30th August 2004. No non-conformance was identified during the site audit.
- 5.12 No environmental complaint or prosecution was received during the reporting month.
- 5.13 According to the environmental audit performed in the reporting month, the following recommendations were made:

Dust Impact

- To prohibit open burning on site.
- To regularly maintain the machinery and vehicles on site
- To implement dust suppression measures on dust-generating activities (e.g. site clearance)

Water Impact

- To identify any wastewater discharge from site.
- To regularly maintain the sediment control measures.
- To implement proper mitigation measures to avoid surface runoff into the sea.

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To avoid improper handling or storage of oil drum on site.