

**EXECUTIVE SUMMARY**

**Introduction**

This is the seventh monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Low Level Radioactive Waste Storage Facility at Siu A Chau” (the Project). This report documents the findings of Environmental Monitoring and Audit (EM&A) Works conducted in between 1<sup>st</sup> and 31<sup>st</sup> March 2004 inclusively.

The major site activities undertaken in the reporting month were:

- Rock breaking;
- Site clearance, i.e. debris removal;
- Formation of temporary working platform for jetty pilings; and
- Casting of blinding layers.

**Environmental Monitoring and Audit Works**

Environmental monitoring for the Project was performed regularly as stipulated in the EM&A Manual and the results were checked and reviewed. As the construction of the temporary jetty and the working platform for the permanent jetty was started, the water quality monitoring has been commenced since 17<sup>th</sup> February 2004. A monthly site audit for this reporting month was conducted on 31<sup>st</sup> March 2004. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

Summary of the non-compliance of the reporting month is tabulated in Table I.

**Table I Summary Table for Non-compliance Recorded in the Reporting Month**

Parameter	No. of Exceedances		No. of Exceedances due to the Project	Action Taken
	Action Level	Limit Level		
<i>Station W1-W3</i>				
DO (mg/L)	0	0	N/A	N/A
Turbidity (NTU)	3	13	1	ET Leader informed all relevant parties; requested Contractor to submit site diary and details of construction and kept monitoring.
SS (mg/L)	0	2	1	On-site IC’s Representative stopped the work when a yellowish plume was observed during sand filling at the temporary working platform on 6/3/04. Contractor stopped work immediately and used geotextile to avoid further leakage prior to re-commencement of sand fill

Parameter	Exceedances Identified		Exceedances Due to the Project	Action Taken
	Action Level	Limit Level		
<i>Station WS</i>				
DO (mg/L)	No	No	N/A	N/A
Turbidity (NTU)	Yes	Yes	On 6/3/04	ET Leader informed all relevant parties; requested Contractor to submit site diary and details of construction and kept monitoring. On-site IC's Representative stopped the work when a yellowish plume was observed during sand filling at the temporary working platform on 6/3/04. Contractor stopped work immediately and used geotextile to avoid further leakage prior to re-commencement of sand fill

***Water Quality Monitoring***

Water quality monitoring was conducted as schedule in this reporting month.

Routine Water Quality Monitoring

A total of two exceedances of Limit Levels for SS at Stations W2 and W3 on 8<sup>th</sup> March 2004.

A total of three exceedances of Action Levels and thirteen Limit Levels for turbidity were recorded at Stations W1, W2 and W3 on 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup> and 19<sup>th</sup> in this reporting month.

12-hr Continuous Water Quality Monitoring

For the continuous water quality monitoring at Station WS, exceedances of Action/Limit Levels for turbidity levels were occasionally recorded on 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, 19<sup>th</sup>, 24<sup>th</sup> and 25<sup>th</sup> in the reporting month.

According to the ET's investigation, there was no direct evidence demonstrating that the exceedances were caused by the Project. However, the exceedances of Limit Levels for SS and Turbidity on 8<sup>th</sup> March 2004 was confirmed to be caused by the Project during the sand filling of the temporary working platform for the temporary jetty. It was because a yellowish plume was observed during the sand filling of the temporary working platform. Debris trapped between the seawall and the geotextile escaped from the gaps between the concrete blocks. The on-site IC's representative ordered to stop the sand filling work and to take remedial actions. The Contractor stopped the works immediately and used geotextile sheets to prevent debris from escaping prior to re-commencement of the sand filling.

**Environmental Licensing and Permitting**

License/Permits granted to the Project include the Environmental Permit (EP), the Further Environmental Permit (FEP), the Water Discharge License (WDL) and Construction Noise Permit (CNP) for the Project. No new license/permit was issued to the Project in this reporting month.

**Complaints and Prosecutions**

No environmental complaint or prosecution was received in this reporting month.

**Status of Waste Management**

The Waste Management Plan (WMP) was accepted with conditions by EPD on 30<sup>th</sup> September 2003 and the Contractor resubmitted WMP (Rev. B) on 9<sup>th</sup> October 2003.

As the major construction works for the Project has not been commenced, there was no solid and liquid waste problem during the reporting period. The waste management should follow the procedures in the approved WMP.

**Key Information in the Reporting Month**

Summary of key information in this reporting month is tabulated in Table II.

**Table II Summary Table for Key Information in the Reporting Month**

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N/A	N/A	---
Changes to the assumptions and key construction / operation activities recorded	0	---	N/A	N/A	---
Status of submissions under EP	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

**Future Key Issues:**

Major site activities for the coming month include:

- Rock breaking;
- Site clearance, i.e. debris removal;
- Formation of temporary working platform for jetty pilings; and
- Casting of blinding layers.

The anticipated environmental impacts will be mainly on dust and noise due to earthworks, and surface runoff during rainy days and the water quality associated with the marine construction activities.