

**Central Reclamation, Phase III  
Quarterly EM&A Report No. 12  
(May 2006 through July 2006)**







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ACL	Atkins China Limited
CEDD	Civil Engineering and Development Department
CRIII	Central Reclamation Phase III
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring and Audit
EPD	Environmental Protection Department
ER	Engineer’s Representatives
ET	Environmental Team
IEC	Independent Environmental Checker
LCSD	Leisure and Cultural Services Department
LCSVO-JV	Leighton-China State-Van Oord Joint Venture
TDD	Territory Development Department
TSP	Total Suspended Particulates

**Executive Summary**

Atkins China Limited (ACL) has been appointed by TDD (now called the Civil Engineering and Development Department (CEDD) after the merger of the Civil Engineering Department and the Territory Development Department on 1 July 2004) to implement the Environmental Monitoring and Audit (EM&A) programme that was identified in the EIA Report for the CRIII Project and is providing Environmental Team services during the duration of the construction works.

This is the twelfth quarterly EM&A Report for the works specified in Section 1.3 of the CRIII EIA Report. This report summarises the monitoring results and audit findings of the EM&A program during the reporting period from 1 May 2006 to 31 July 2006.

**Environmental Monitoring and Audit Progress**

Air, Noise and water quality monitoring were conducted during this quarter. Weekly environmental site inspections were also conducted during the reporting quarter.

**Exceedances of Action and Limit Levels**

In May and June 2006 no exceedance of the AL or LL for TSP were recorded. However, the AL exceedances of the 24-hr TSP were recorded on 24-July 2006 at the City Hall and PLA monitoring stations.

Noise exceedances were recorded on the 23 May, 13 June and 30 June, 16 July and 18 July 2006 at the City Hall monitoring station.

Water quality exceedances for the quarter are given below:-

Date	Tide	Parameter	Exceedance	Station
01-May-06	Mid-Ebb	DO	AL	M1, M2, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M2, M3, M4A, M5, M6, M11 and M12
03-May-06	Mid-Ebb	DO	AL	M4A
	Mid-Flood	DO	AL	M2, M6 and M12
05-May-06	Mid-Ebb	DO	AL	M2, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M1, M2, M3, M4A, M5, M6, M11 and M12
08-May-06	Mid-Ebb	DO	AL	M2 and M6
	Mid-Flood	DO	AL	M8 (S/M)
15-May-06	Mid-Ebb	DO	AL	M1
19-May-06	Mid-Ebb	DO	AL	M2, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M2, M3, M4A, M5, M6, M11 and M12

Date	Tide	Parameter	Exceedance	Station
22-May-06	Mid-Ebb	DO	AL	M1, M2, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M1, M2, M3, M4A, M5, M6, M11 and M12
24-May-06	Mid-Ebb	DO	AL	M1, M2, M3, M4A, M5, M6, M8(S/M), M10(S/M), M11 and M12
	Mid-Flood	DO	AL	M2, M3, M4A, M5, M6, M11 and M12
26-May-06	Mid-Ebb	DO	AL	M2, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M3 and M4A
26-May-06	Mid-Flood	SS	AL	M3 and M4A
29-May-06	Mid-Ebb	DO	AL	M4A and M12
	Mid-Flood	DO	AL	M2, M3, M5 and
02-Jun-06	Mid-Ebb	DO	AL	M3
	Mid-Flood	DO	AL	M4A and M5
05-Jun-06	Mid-Flood	DO	AL	M2 and M5
07-Jun-06	Mid-Ebb	DO	AL	M2
	Mid-Flood	DO	AL	M2
09-Jun-06	Mid-Ebb	DO	AL	M2 and M4A
	Mid-Flood	DO	AL	M2, M3, M5 and M10(S/M)
	Mid-Flood	DO	LL	M8(S/M)
12-Jun-06	Mid-Ebb	DO	AL	M1, M3, M4A, M5, M11 and M12
	Mid-Flood	DO	AL	M8(S/M), M3, M4A, M5, M6, M11amd M12
14-Jun-06	Mid-Ebb	DO	AL	M1, M3, M4A and M8(S/M)
	Mid-Flood	DO	AL	M1, M2A, M3, M4A, M5, M6, M8(S/M), M10(S/M), M11amd M12
16-Jun-06	Mid-Ebb	DO	AL	M4A
	Mid-Flood	DO	AL	M1, M3, M4A, M5, M8(S/M), M10(S/M), M11amd M12
19-Jun-06	Mid-Flood	DO	AL	station M3, M4A, M5, M6, and M12
28-Jun-20	Mid-Flood	DO	AL	M3, M4A, M6, and M12

**Executive Summary**

Date	Tide	Parameter	Exceedance	Station
30-Jun-06	Mid-Ebb	DO	AL	M1, M3 and M4A
	Mid-Flood	DO	AL	M1, M2A, M3, M4A, M6, M8(S/M), M8(B) and M10(S/M)
03-Jul-06	Mid-Flood	DO	AL	M3 and M4A
05-Jul-06	Mid-Flood	SS	LL	M4A
05-Jul-06	Mid-Ebb	DO	AL	M8(B) and M10(B)
	Mid-Flood	DO	AL	M8(B)
07-Jul-06	Mid-Ebb	DO	LL	M8(B) and M10(B)
	Mid-Flood	DO	LL	M8(B) and M10(B)
07-Jul-06	Mid-Flood	SS	AL	M4A
10-Jul-06	Mid-Ebb	DO	AL	M1A, M2A, M3, M4A, M8(B), M11 and M12
	Mid-Flood	DO	AL	M3, M4A, M5, M6, M10(S/M), M8(B) and M10(B)
12-Jul-06	Mid-Ebb	DO	AL	M1A, M3, M4A, M6, M8(S/M), M10(S/M), M11 and M12
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M8 (S/M), M10(S/M), M11 and M12
14-Jul-06	Mid-Ebb	DO	AL	M1A, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M10(S/M), M11 and M12
17-Jul-20	Mid-Ebb	DO	AL	M3 and M4A
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M11 and M12
19-Jul-06	Mid-Ebb	DO	AL	M4A
	Mid-Flood	DO	AL	M4A, M6, M11 and M12
21-Jul-06	Mid-Ebb	DO	AL	M4A and M8(B)
	Mid-Flood	DO	AL	M4A and M11
26-Jul-06	Mid-Ebb	DO	AL	M3, M4A and M12
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M11 and M12
28-Jul-06	Mid-Ebb	DO	AL	M1A, M2A, M3, M4A, M5, M6, M11 and M12

<b>Date</b>	<b>Tide</b>	<b>Parameter</b>	<b>Exceedance</b>	<b>Station</b>
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M8(S/M), M10(S/M), M11 and M12
31-Jul-06	Mid-Ebb	DO	AL	M3, M4A, M5, M6 and M12
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M8(S/M), M11 and M12

***Complaint Log***

WSD wrote on the 13 of July to inform the ER of quantities of rubbish (plastic bags) being sucked into their intake at Wan Chai (Monitoring Station M12).

***Notifications of Summons and Prosecutions***

There were no notifications of summons or prosecutions received during this reporting quarter.

***Site Inspection and Audit***

Weekly environmental site inspections were carried out during this quarter. Any minor deficiencies noted during the site inspections were rectified by the Contractor upon receipt of notification.



## **1. INTRODUCTION**

### **1.1 Basic Project Information**

The Territory Development Department (TDD) (now called the Civil Engineering and Development Department (CEDD) after the merger of the Civil Engineering Department and the Territory Development Department on 1 July 2004) of the Hong Kong Special Administrative Region (HKSAR) is constructing the Central Reclamation Phase III project (CRIII).

The Main Works Contract HK 12/02 for CRIII commenced on 28 February 2003. Leighton China State Van Oord Joint Venture (LCSVO-JV) was awarded the Contract No. HK 12/02 for the construction of the CRIII Engineering Works. The main construction works that were identified in the EIA Report for the Project, requiring environmental monitoring and audit, have commenced.

The Contractor's works programme for the quarter is provided in **Annex E**.

### **1.2 Project Organisation and Management Structure**

Atkins China Limited (ACL) has been commissioned by TDD (now called CEDD), the employer, to undertake the environmental monitoring and audit work for the project. ACL is also the Resident Engineers for the project and LCSVO-JV is the main contractor. An Independent Environmental Checker (IEC) has been employed to audit the EM&A programme. The contacts of key management are provided in **Annex A**.

### **1.3 Works Undertaken**

The works undertaken in the project area requiring environmental monitoring and audit as identified in the EIA Report (not including Chai Wan Basin) during the quarter included:

- IRAW and IRAE – placement of fill;
- General finishing works for Pier 7 and Pier 8;
- Piling work and sub-structure concreting works at Public Pier West;
- Construction of access roads in IRAW;
- Central Terminal Building (CTB), Architectural and E&M works;
- Culvert J Extension – bore piling, pile testing and bay construction;
- E&M installation works and testing at the IRAE pumping stations;
- ESB Building – Construction, EM&A installation and testing;
- Maintenance and necessary repair works for seawater intake silt screens; and
- Cooling water main construction in IRAW and IRAE ;
- Eastern Seawall bored piling.

## 2. EM&A REQUIREMENTS

### 2.1 Summary of Impact EM&A Requirements

The EM&A programme requires environmental monitoring for air quality, noise, water quality, waste management and landscape and visual aspects as specified in the CRIII Project EIA. The EM&A requirements for each issue area are described in subsequent sections including:

- All required monitoring parameters;
- Action and Limit Levels; and
- Event-Action Plans.

A summary of impact EM&A requirements is presented in **Table 2-1**.

**Table 2.1 - Summary of Impact EM&A Requirements**

Parameters	Descriptions	Locations	Frequencies	Duration
TSP	24-Hour TSP	2 Locations	Once every 6 days	During dust generating construction works
	1-Hour TSP	2 Locations	Three times in every 6 days	During dust generating construction works
Noise	Leq (30 mins), L <sub>10</sub> , L <sub>90</sub> ,	1 Location	Continuous measurements	Two weeks before Construction and During Construction
Water Quality	Dissolved Oxygen; Salinity; Temp; Suspended Solids; Turbidity.	14 Locations	3 times a week, Mid-ebb/flood tides	During Marine Works and for 4 weeks after completion of Marine Works
Waste	On-Site Waste Audit	Active Work Sites	Periodically	During Construction
	On-Site Waste Inspection			
Landscape and Visual	Audits to ensure effective implementation of mitigation measures			During Construction
General Site Conditions	Environmental Site Inspection	Works areas and areas affected by works	Periodically	During Construction

## **2.2 Environmental Quality Performance Limits**

Environmental Quality Performance Limits for air, noise and water quality have been established as part of the Baseline Monitoring Report and are provided in **Annex B**.

## **2.3 Event Action Plan**

Event Action Plans for air, noise and water quality have been developed as part of the Baseline Monitoring Report and are provided in **Annex C**.

### **3. ENVIRONMENTAL STATUS**

#### **3.1 Implementation of Environmental Measures**

The Contractor has implemented relevant mitigation measures listed in the EIA Report, EM&A Manual and Further Environmental Permit.

#### **3.2 Environmental Monitoring Locations**

Drawings showing the project area and locations of the monitoring stations are provided in **Annex D**.

#### **3.3 Air Quality Monitoring Results**

Air quality monitoring commenced on 21 April 2005 at Central Barrack. Monitoring was not conducted at the City Hall monitoring station until March 2006 because exterior renovation works were undertaken by City Hall at the elevated walkway area. The graphical plot of air quality monitoring results is provided in **Annex F**.

#### **3.4 Noise Quality Monitoring Results**

The graphical plot of noise monitoring results for this quarter is provided in **Annex G**.

#### **3.5 Water Quality Monitoring Results**

The graphical plot of water quality monitoring results for this quarter is provided in **Annex H**.

#### **3.6 Solid and Liquid Waste Management Status**

Solid and liquid waste management was implemented according to the Waste Management Plan during the reporting quarter.

#### **3.7 Landscape and Visual Audit**

As the works undertaken during the reporting quarter were mainly related to reclamation, buildings and infrastructure works, the landscape and visual impacts are considered to be minimal.

#### 4. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

##### 4.1 Environmental Exceedances

No exceedances of the AL or LL for TSP were recorded during May 2006 and June 2006. However, exceedances of AL for the 24-hr TSP were recorded on 24-July 2006 at City Hall and PLA air monitoring station. Respirable Suspended Particulates (RSP) levels recorded at EPD's air quality monitoring stations in Central were also high (up to 200  $\mu\text{g}/\text{m}^3$ ) during the dust sampling period. As no major changes on site have been observed, the weather and background air quality may be the main cause of the exceedance rather than the construction site activities.

Two noise exceedances were recorded on the 23 May 2006 at the City Hall monitoring station, which was attributed to the activities of a film crew in front of City Hall. Two noise exceedances were recorded on the 13 and 30 June 2006 at the City Hall monitoring station, which were attributed to ambient weather condition (lightning and heavy rain) on 13-June and attributed to public activities within the immediate area of City Hall on 30-June 2006. Two noise exceedances were recorded on the 16 and 18 July 2006 at the City Hall monitoring station. No construction activity occurred on site on the 16<sup>th</sup> July while no works were recorded near City Hall on the 18<sup>th</sup> July, the exceedances were therefore not attributed to project works.

Water quality exceedances of DO and SS recorded during May, June and July 2006 are detailed below.

Date	Tide	Parameter	Exceedance	Station
01-May-06	Mid-Ebb	DO	AL	M1, M2, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M2, M3, M4A, M5, M6, M11 and M12
03-May-06	Mid-Ebb	DO	AL	M4A
	Mid-Flood	DO	AL	M2, M6 and M12
05-May-06	Mid-Ebb	DO	AL	M2, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M1, M2, M3, M4A, M5, M6, M11 and M12
08-May-06	Mid-Ebb	DO	AL	M2 and M6
	Mid-Flood	DO	AL	M8 (S/M)
15-May-06	Mid-Ebb	DO	AL	M1
19-May-06	Mid-Ebb	DO	AL	M2, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M2, M3, M4A, M5, M6, M11 and M12
22-May-06	Mid-Ebb	DO	AL	M1, M2, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M1, M2, M3, M4A, M5, M6, M11 and M12

Date	Tide	Parameter	Exceedance	Station
24-May-06	Mid-Ebb	DO	AL	M1, M2, M3, M4A, M5, M6, M8(S/M), M10(S/M), M11 and M12
	Mid-Flood	DO	AL	M2, M3, M4A, M5, M6, M11 and M12
26-May-06	Mid-Ebb	DO	AL	M2, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M3 and M4A
26-May-06	Mid-Flood	SS	AL	M3 and M4A
29-May-06	Mid-Ebb	DO	AL	M4A and M12
	Mid-Flood	DO	AL	M2, M3, M5 and
02-Jun-06	Mid-Ebb	DO	AL	M3
	Mid-Flood	DO	AL	M4A and M5
05-Jun-06	Mid-Flood	DO	AL	M2 and M5
07-Jun-06	Mid-Ebb	DO	AL	M2
	Mid-Flood	DO	AL	M2
09-Jun-06	Mid-Ebb	DO	AL	M2 and M4A
	Mid-Flood	DO	AL	M2, M3, M5 and M10(S/M)
	Mid-Flood	DO	LL	M8(S/M)
12-Jun-06	Mid-Ebb	DO	AL	M1, M3, M4A, M5, M11 and M12
	Mid-Flood	DO	AL	M8(S/M), M3, M4A, M5, M6, M11amd M12
14-Jun-06	Mid-Ebb	DO	AL	M1, M3, M4A and M8(S/M)
	Mid-Flood	DO	AL	M1, M2A, M3, M4A, M5, M6, M8(S/M), M10(S/M), M11amd M12
16-Jun-06	Mid-Ebb	DO	AL	M4A
	Mid-Flood	DO	AL	M1, M3, M4A, M5, M8(S/M), M10(S/M), M11amd M12
19-Jun-06	Mid-Flood	DO	AL	station M3, M4A, M5, M6, and M12
28-Jun-20	Mid-Flood	DO	AL	M3, M4A, M6, and M12
30-Jun-06	Mid-Ebb	DO	AL	M1, M3 and M4A
	Mid-Flood	DO	AL	M1, M2A, M3, M4A, M6, M8(S/M), M8(B) and

Date	Tide	Parameter	Exceedance	Station
				M10(S/M)
03-Jul-06	Mid-Flood	DO	AL	M3 and M4A
05-Jul-06	Mid-Flood	SS	LL	M4A
05-Jul-06	Mid-Ebb	DO	AL	M8(B) and M10(B)
	Mid-Flood	DO	AL	M8(B)
07-Jul-06	Mid-Ebb	DO	LL	M8(B) and M10(B)
	Mid-Flood	DO	LL	M8(B) and M10(B)
07-Jul-06	Mid-Flood	SS	AL	M4A
10-Jul-06	Mid-Ebb	DO	AL	M1A, M2A, M3, M4A, M8(B), M11 and M12
	Mid-Flood	DO	AL	M3, M4A, M5, M6, M10(S/M), M8(B) and M10(B)
12-Jul-06	Mid-Ebb	DO	AL	M1A, M3, M4A, M6, M8(S/M), M10(S/M), M11 and M12
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M8 (S/M), M10(S/M), M11 and M12
14-Jul-06	Mid-Ebb	DO	AL	M1A, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M10(S/M), M11 and M12
17-Jul-20	Mid-Ebb	DO	AL	M3 and M4A
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M11 and M12
19-Jul-06	Mid-Ebb	DO	AL	M4A
	Mid-Flood	DO	AL	M4A, M6, M11 and M12
21-Jul-06	Mid-Ebb	DO	AL	M4A and M8(B)
	Mid-Flood	DO	AL	M4A and M11
26-Jul-06	Mid-Ebb	DO	AL	M3, M4A and M12
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M11 and M12
28-Jul-06	Mid-Ebb	DO	AL	M1A, M2A, M3, M4A, M5, M6, M11 and M12
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M8(S/M), M10(S/M), M11 and M12

Date	Tide	Parameter	Exceedance	Station
31-Jul-06	Mid-Ebb	DO	AL	M3, M4A, M5, M6 and M12
	Mid-Flood	DO	AL	M1A, M2A, M3, M4A, M5, M6, M8(S/M), M11 and M12

The exceedances recorded were not directly attributable to project works as no marine works that would greatly disturb the seabed were being carried out during the reporting period and no run-off was observed from the site. They were, therefore, attributed to natural variation in ambient conditions and not project works.

A statistical analysis (**Annex I**) of the suspended solids monitoring results found that the quarterly mean is significantly less than 1.3 times of the ambient mean recorded during the baseline period. This indicates that the Project construction works generally did not cause adverse impacts during the reporting period with respect to the baseline condition.

#### 4.2 Non-Compliance

No environmental no-compliances were reported in the quarter.

#### 4.3 Summary of Actions Taken by the Contractor

The Contractor has implemented the following measures to prevent air and water quality impacts:

- Contractor has implemented their Drainage Management Plan to Control Site Run-off for the wet season – actions completed and underway include: repair and improvement of existing bunds/sandbags on the edge of the reclamation; installation of additional bunds; compaction of soil surface and pathing where possible to prevent erosion, creation of drainage channels and soak pits.
- Provision a single *WetSep* flocculation based water treatment plant and additional settlement tanks to remove suspended solids from discharge waters;
- Provision of catch pits to collect spill over from wheel washing facilities; increased frequency of cleaning of catch-pits;
- Water bowing of haul roads and other areas of the site and covering of stock piles.

#### 4.4 Environmental Enquiries

No environmental enquiries were received during the reporting quarter.

#### 4.5 Environmental Complaints and Prosecutions

WSD wrote on the 13 of July to inform the ER of quantities of rubbish (plastic bags) being sucked into their intake at Wan Chai (Monitoring Station M12). Initial communication was made with WSD to further understand the problem on the 18 July 2006. WSD wish to have the silt screen removed from their intake as they believe that the screen is acting as a rubbish trap. Their request is currently under review by the ET & ER to determine validity under the EP, need of the silt screen to protect from suspended solids and what alternative methods may be proposed to protect the intake.

#### 4.6 Record of Environmental Complaints and Summons & Prosecutions

The following table summarises all the complaints attributable to project works received (both written and verbal) and the liaison/consultation undertaken, and the actions and follow-up procedures taken.

**Table 4.1 - Summary of Complaints Received**

Month/ Date of Complaint	Media	Complaint & Action	Liaison/ Consultation Taken	Follow-up Action
July 2006	Water	WSD wrote on the 13 of July to inform the ER of quantities of rubbish (plastic bags) being sucked into their intake at Wan Chai (Monitoring Station M12). Initial communication was made with WSD to further understand the problem on the 18 July 2006. WSD wish to have the silt screen removed from their intake as they believe that the screen is acting as a rubbish trap.	CEDD, Contractor, ER, IEC, ET	Their request is currently under review by the ET & ER to determine validity under the EP, need of the silt screen to protect from suspended solids and what alternative methods may be proposed to protect the intake.

There were no notifications of summons and prosecutions during the reporting quarter.



## **5. CONCLUSION**

During the environmental site inspections conducted within the reporting quarter, no non-compliances were noted and no prosecutions were received during the reporting quarter.

None of the air, noise or water exceedances recorded during the quarter were attributable to project works.