

Enhanced Ash Utilisation and Water Management Facilities at Castle Peak Power Station

Monthly Audit Report for November 2022

December 2022

AECOM ASIA CO. LTD.

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1 INTRODUCTION

1.1 Project Background

- 1.1.1 Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection (DEP) granted an environmental permit (No. EP-441/2012) to the Castle Peak Power Company Limited (CAPCO) on 23 July 2012 to construct and operate the designated project for Enhanced Ash Utilisation and Water Management Facilities at Castle Peak Power Station (hereinafter referred to as "the Project"). An application for variation of environmental permit (VEP) was subsequently made and the revised EP (No: EP-441/2012/A) was issued by DEP on 29 June 2018.
- 1.1.2 CAPCO appointed AECOM Asia Company Limited (AECOM) as the Independent Checker (IC) to undertake environmental audit work for the Project. Yee Hop Engineering Company Limited is the Contractor for construction of Ash Silo, while Guangxi Electric Power Design Institute Company Limited is the Contractor for the enhancement works of Water Management Facilities. The civil construction works of Ash Silo were completed by Yee Hop in December 2021. The construction of Ash Silo was handed over to Kum Shing E&M Limited for the E&M works in January 2022. The E&M works undertaken by Kum Shing E&M Limited were substantially completed in April 2022 and only some minor E&M works were remained that significant environmental impacts arising from these works would not be anticipated. Hence, the audit works for Ash Silo site has been terminated since May 2022.

1.2 Purpose of the Report

1.2.1 Under the EP Condition 2.3, the audit for the implementation of all mitigation measures recommended in the Project Profile (Register No. PP-468/2012) commenced in November 2019. This is the Thirty-seventh Monthly Audit Report which summarises the audit findings for the Project during the reporting period from 1 to 30 November 2022.

1.3 Report Structure

- 1.3.1 This Monthly Audit Report is organised as follows:
 - Section 1: Introduction
 - Section 2: Project Information
 - Section 3: Environmental Site Inspection
 - Section 4: Implementation Status of Environmental Mitigation Measures
 - Section 5: Conclusions

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2 PROJECT INFORMATION

2.1 Site Description

2.1.1 The Project site is located within the boundary of the existing Castle Peak Power Station (CPPS). The locations of the key project components are shown in **Appendix A**.

2.2 Construction Programme and Activities

2.2.1 The major construction activities of the Project undertaken in the reporting month includes:

Water Management Facilities Enhancement Works

- (i) Plant Room
 - EVA road construction work.
- (ii) Process Water Tank
 - No construction activities in reporting month
- (iii) Water Management Facilities
 - DN 900 pipe support work;
 - DN250/450 pipe support work;
 - Pump system electrical work;
 - Pump commissioning work; and
 - Rotary-strainer commissioning work.
- (iv) West Coal Store
 - no construction activities in reporting month
- (v) Drainage Modification Works
 - no construction activities in reporting month
- 2.2.2 The major construction activities for the coming month includes:

Water Management Facilities Enhancement Works

- (i) Plant Room
 - EVA road construction work
- (ii) Process Water Tank
 - No planned construction activities
- (iii) Water Management Facilities
 - Pump system control work;
 - Pump commissioning work; and
 - Rotary-strainer commissioning work.
- (iv) West Coal Store
 - No planned construction activities
- (v) Drainage modification works
 - No planned construction activities
- 2.2.3 The construction programmes for the above-mentioned construction / enhancement works is presented in **Appendix B**.

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2.3 Status of Environmental Licences, Notification and Permits

2.3.1 Relevant environmental licences, permits and/or notifications on environmental protection for this Project and valid in the reporting month are summarised in **Tables 2.1** and **2.2**.

Table 2.1 Status of Environmental Licences, Notifications and Permits for Ash Silo Construction Works

Permit / Licence No. / Notification/ Reference	Valid F	Period	Status	Remarks
No.	From To			
Environmental Permit			<u> </u>	
EP-441/2012/A	29 June 2018		Valid	
Billing Account for Cons	struction Waste D	Disposal		
7033071	25 January 2019	-	Valid	
Notification Under Air Po	ollution Control (Construction L	Oust) Regulation	
444243	15 April 2019		Valid	

Table 2.2 Status of Environmental Licences, Notifications and Permits for Water Management Facilities Enhancement Works

Permit / Licence No. / Notification/ Reference	Valid F	Period	Status	Remarks
No.	From	То		
Environmental Permit	<u>I</u>	<u>I</u>	<u>I</u>	
EP-441/2012/A	29 June 2018		Valid	
Billing Account for Cons	 struction Waste L	 Disposal		
7037396	27 May 2020		Valid	
Notification Under Air Po	 ollution Control (Construction Du	st) Regulation	
455899	7 May 2020		Valid	
Notification of Commen	coment of Ashes	tos Abatement k	Nork	
AX200323	14 July 2020		closed	All asbestos removal works was finished in October 2020 and the Completion Report of Asbestos Abatement Work (AAW) was sent to EPD on 14 December 2020 for record.
Construction Noise Perr	nit			
GW-RW0337-20	30 July 2020	21 January 2021	Expired	
GW-RW0593-20	22 January 2021	21 July 2021	Expired	
GW-RW0247-21	22 July 2021	21 January 2022	Expired	
GW-RW0009-22	22 January 2022	21 July 2022	Expired	No further works in restricted hours is required for remaining tasks. No renewal of CNP is required.
Discharge Licence				•
WT0036990-2020	12 November 2020	30 November 2025	Valid	

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3 ENVIRONMENTAL SITE INSPECTION

3.1 Environmental Site Inspection

- 3.1.1 Site inspections were carried out by the IC on a bi-weekly basis to monitor the implementation of mitigation measures for the Project.
- 3.1.2 In the reporting month, the site inspections were carried out jointly with the Contractor on 8 and 25 of November 2022. No non-compliance was recorded during the site inspections. Findings and recommendations for the site inspections are summarised below. Details of observations recorded during the site inspections are presented in **Appendix C**.

Water Management facilities Enhancement Works

- 8 November 2022
 - Drainage surrounded by silt was observed. The Contractor was advised to clean up and provide banding to the drainage near to the refilling works area.
- 21 October 2022
 - Follow-up the observation recorded on 8 November 2022 that silt was still observed around the drainage. The Contractor was reminded to clean up and prevent further leakage of silt into drainage. No other specific observation was identified in this inspection.
- 3.1.3 The outstanding follow-up action of the Contractor for cleaning-up and preventing further leakage of silt into drainage will be further inspected by the IC in the next reporting month.

4 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

4.1.1 The Contractor has implemented all the relevant environmental mitigation measures as recommended in the Project Profile. The implementation status of the environmental mitigation measures during the reporting period is summarised in **Appendix D**.

5 CONCLUSION

- 5.1.1 Two environmental site inspections were carried out for the Project in the reporting month of November 2022. No non-compliance was recorded during the site inspections. Based on the observations during the site inspections, the Contractor has implemented all the relevant environmental mitigation measures as recommended in the Project Profile (Register No. PP-468/2012).
- 5.1.1 Referring to the information provided by the Contractor, no complaint, notification of summons and successful prosecution was received in the reporting month.

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Appendix A

Location Plan of Key Project Components (2017 Scheme)



Source: Environmental Review Report of "Enhanced Ash Utilisation and Water Management Facilities at castle Peak Power Station", January 2018, Castle Peak Power Company Limited

Appendix B

Construction Programme

Appendix B Tentative Schedule for the Water Management Facilities Enhancement Works

Milestone	Works Description	Dates	Duration
1	Commencement of Contract	12 March 2020	N/A
2a	Construction of Plant House of Process Water Recycling Facility	By 458 days from commencement of Contract (13 June 2021)	458 days (15 months approx.)
2b	T&C Works of Process Water Recycling Facility	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)
3a	Construction of Process Water Tank	By 458 days from commencement of Contract (13 June 2021)	458 days (15 months approx.)
3b	T&C Works of Process Water Tank	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)
4a	Construction of FS Water Tank and T&C Works of FS Water Tank	By 337 days from commencement of Contract (12 February 2021)	337 days (11 months approx.)
4b	Construction of Modified Fire Service System for CPA	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)
5a	Construction of Storm/ Process Water Management Facilities	By 337 days from commencement of Contract (12 February 2021)	337 days (11 months approx.)
5b	T&C Works of Storm/ Process Water Management Facilities	By 397 days from commencement of Contract (13 April 2021)	397 days (13 months approx.)
6	Handing over of the West Coal Store to the Contractor for construction	By 307 days from commencement of Contract (13 January 2021)	307 days (10 months approx.)
7	Works related to Partial Decommissioning of West Coal Store	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)
8	Drainage Modification Works including the necessary T&C Works	By 458 days from commencement of Contract (13 June 2021)	458 days (15 months approx.)
9	Completion of All Related Works	By 458 days from commencement of Contract (13 June 2021)	458 days (15 months approx.)
10	Completion of all Contract works	By 641 days from commencement of Contract (13 December 2021)	641 days (21 months approx.)

Appendix C Environmental Audit Records

Proje	Enhanced Ash Utilisation and Water Management Facilities at the Castle Peak Power Station (CPPS)	Inst	Inspected by					
1.5	ract no:		Client:					
Conti	ractor: Guangxi Electric Power Design Institute Co., Ltd	 _ ER:						
Inspe	ection	IEC	:	SP	Ма			
Date:	8 November 2022	_ Cor	tractor:	Lu	You Fang			
Time	: 14= 40	_						

PART	TA: GENERAL INFORMATION							
Weath	her: Sunny Fine Cloudy R	ainy						
Temp	perature: 2\ C							
Humid	dity: High Moderate Low							
Wind:	Strong Breeze Light Ca	alm						
PART	B: SITE AUDIT							
		Not			Follow		Photo/	
		Obs.	Yes	No	up	N/A	Remarks	
	on 1: Water Quality							
1.01	Is wetting of materials and surfaces avoided excess use of water?		/					
1.02	Are channels, earth bunds or sand bag barriers provided on-site to properly direct stormwater to desilting facilities?						observation 1	
1.03	Are existing on-site silt removal facilities, channels and manholes, if any, maintained and the deposited silt and grit removed regularly, at the onset of and after each rainstorm and to ensure that these facilities are functioning properly at all times?							
1.04	Are other manholes, if any, including any newly constructed ones adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system?							
1.05	Are open stockpiles of materials on site avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorm? Are measures taken to prevent the washing away of construction materials, soil, silt or debris?							
1.06	Is sewage arising from the construction workers on-site collected by temporary sanitary facilities where necessary, e.g. portable chemical toilets? Are portable toilets used coupled with tankering away services provided by a reputable collector?							
1.07	Are all site drainages comply with the terms and conditions of a valid discharge licence issued by EPD?							
1.08	Are vehicle washing facilities drained into desilting facilities before discharge? Is water recycled on-site wherever possible? Is the wash water from wheel wash basins either reused for site watering or pumped to the on-site desilting facilities for treatment?		ď					
1.09	Are desilting facilities checked and the deposited silt and grit removed regularly to ensure that they are working properly at all times?							
1.10	Are all fuel tanks and chemical storage sited on sealed and bunded areas and provided with locks?							
1.11	Are storage areas surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidental spillage, if necessary?							
1.12	Are oil and grease removal facilities provided where appropriate, e.g. in area near plant workshop/maintenance area, if any?							
1.13	Is chemical waste arising from the site properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation?							

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Section	n 2: Air Quality						
2.01	Are all areas involving site clearance and excavation works sprayed with water before, during and after the operations to maintain the entire surface wet?						
2.02	Are materials dropped from restricting heights as far as practicable to minimize the fugitive dust arising from loading/unloading?						
2.03	Is hoarding of not less than 2.4m high from ground level along the major work site boundary erected, for the new process water tank and the new PFA storage silo, where appropriate?						
2.04	Are all vehicles washed to remove any dusty materials from the bodies and wheels immediately before leaving a work site?						
2.05	Is the load of the vehicle leaving a work site is carrying a load of dusty materials covered entirely by clean impervious sheeting to ensure that the dusty materials will not be released from the vehicle?						
2.06	Is stockpile of dusty materials on-site covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides?						
2.07	Is stockpile of dusty materials on-site sprayed with water immediately prior to any loading, unloading or transfer operation to dampen the dusty materials?						
2.08	Is the travelling speed of vehicles within the work sites controlled to within 10 km/h to reduce the traffic induced dusty dispersion and re-suspension?						
2.09	Is unpaved haul road sprayed with water to maintain the entire road surface wet?						
2.10	Is coal dust suppressed by water sprays using the spray guns and water browser as existing normal operations at the coal stockyard during the clearance of the coal pile?		Ø				
Section	on 3: Noise		/				
3.01	Is unused equipment turned off?						
3.02	Is PME kept to a minimum and the parallel use of noisy equipment / machinery avoided?						
3.03	Are all plant and equipment maintained regularly?		1				
3.04	Are material stockpiles and other on-site structures effectively used as noise barriers, where practicable?		Ø				
3.05	Are purpose-built movable noise barrier, silencer and quiet plant used as necessary?						
Secti	on 4: Waste/Chemical Management						
4.01	Is reuse / recycling of all materials on-site investigated and exhausted prior to treatment / disposal off-site?						
4.02	Are all waste materials sorted on-site into inert and non-inert C&D materials, and where the materials recycled or reused, are they further segregated?						
4.03	Is trip-ticket system implemented in accordance with the contract and the requirements of WBTC 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Material"?		Z				
4.04	Is the Contractor registered as a Chemical Waste Producer if chemical wastes are generated on-site?						
4.05	Are licensed chemical waste collectors employed to collect any chemical waste generated at site?						
4.06	Are handling, storage, transportation and disposal of chemical wastes conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD?						
4.07	Are sufficient number of covered bins provided on-site for the containment of general refuse to prevent visual impacts and nuisances? Are these bins emptied daily and the collected waste disposed of to WENT Landfill?						
4.08	Is the site maintained clean and hygienic throughout the project works?						Page 2 of 3

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks		
4.09	Are toolbox talks provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling?								
Section	on 5: Others								
5.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits or at a convenient location for public's information at all times??								
5.02	Others:								
Remarks:									
0	bsenation 1:								

Drainage surrounded by the sht was observed.

The Contractor was advised to clean up and provide bunday
to the drainage system near to the refiliry works area.

Client		ER	IEC	Contractor		
()	()	(S.P. MA)	(是为)		



Proje	ect:	Enhanced Ash Utilisation and Water Management Facilities at the Castle Peak Power Station (CPPS)				Instr	Inspected by					
-	ract no:						Client:					
Cont	ractor:	Guangxi Electric Power Design Institute Co., Ltd										
•	ection	25	- ((IEC:		SP	Ма	*		
Date:		25	November	2022		Con	tractor:	_	3 3 M	3		
Time			00 am			-		-				
PAR1 Weath Temp	her: erature:	GENERAL INFO Sunny High	PRMATION Fine C Moderate	Cloudy	Ra	iny						
Wind:	:	Strong	Breeze	Light	Ca	lm						
PART	ГВ:	SITE AUDIT										
						Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks	
Section	on 1: Wat	er Quality					_					
1.01		-	surfaces avoided exc				/			Ш		
1.02	properly	direct stormwater to	or sand bag barriers o desilting facilities?								Follow-up Observe	ation
1.03	maintair of and a	ned and the deposite	oval facilities, channed and silt and grit remove and to ensure that the nes?	ed regularly, at th	, if any, ne onset						/	
1.04	adequat	ely covered and tem	including any newly nporarily sealed so a bris from getting into	as to prevent silt.								
1.05	covered	with tarpaulin or sim	rials on site avoided nilar fabric during rai g away of constructi	instorm? Are mea	sures							
1.06	tempora toilets?	ry sanitary facilities	construction workers where necessary, e used coupled with ta ector?	.g. portable chemi	ical							
1.07	Are all s discharg	ite drainages comply le licence issued by	y with the terms and EPD?	conditions of a va	alid							
1.08	discharg from wh	e? Is water recycled	s drained into desilti d on-site wherever p ner reused for site wa treatment?	ossible? Is the wa	ash water							
1.09			ed and the deposited are working proper		oved							
1.10	Are all fu	uel tanks and chemic rided with locks?	cal storage sited on	sealed and bunde	ed areas							
1.11	Are store the store necessa	ige capacity of the la	ed by bunds with a c argest tank to preve	apacity equal to 1 nt accidental spilla	110% of age, if							
1.12	Are oil a area nea	nd grease removal f ar plant workshop/ma	facilities provided whaintenance area, if a	nere appropriate, e any?	e.g. in							
1.13	and disp	osed of in compliand	om the site properly s ce with the requirem Vaste) (General) Re	ents stipulated ur								



		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Sectio	n 2: Air Quality						
2.01	Are all areas involving site clearance and excavation works sprayed with water before, during and after the operations to maintain the entire surface wet?		Ø				
2.02	Are materials dropped from restricting heights as far as practicable to minimize the fugitive dust arising from loading/unloading?						
2.03	Is hoarding of not less than 2.4m high from ground level along the major work site boundary erected, for the new process water tank and the new PFA storage silo, where appropriate?						
2.04	Are all vehicles washed to remove any dusty materials from the bodies and wheels immediately before leaving a work site?						
2.05	Is the load of the vehicle leaving a work site is carrying a load of dusty materials covered entirely by clean impervious sheeting to ensure that the dusty materials will not be released from the vehicle?						
2.06	Is stockpile of dusty materials on-site covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides?						
2.07	Is stockpile of dusty materials on-site sprayed with water immediately prior to any loading, unloading or transfer operation to dampen the dusty materials?						
2.08	Is the travelling speed of vehicles within the work sites controlled to within 10 km/h to reduce the traffic induced dusty dispersion and re-suspension?		\square				-
2.09	Is unpaved haul road sprayed with water to maintain the entire road surface wet?						
2.10	Is coal dust suppressed by water sprays using the spray guns and water browser as existing normal operations at the coal stockyard during the clearance of the coal pile?						
Section	on 3: Noise						
3.01	Is unused equipment turned off?						
3.02	Is PME kept to a minimum and the parallel use of noisy equipment / machinery avoided?						
3.03	Are all plant and equipment maintained regularly?						
3.04	Are material stockpiles and other on-site structures effectively used as noise barriers, where practicable?						
3.05	Are purpose-built movable noise barrier, silencer and quiet plant used as necessary?						
Section	on 4: Waste/Chemical Management						
4.01	Is reuse / recycling of all materials on-site investigated and exhausted prior to treatment / disposal off-site?						
4.02	Are all waste materials sorted on-site into inert and non-inert C&D materials, and where the materials recycled or reused, are they further segregated?						
4.03	Is trip-ticket system implemented in accordance with the contract and the requirements of WBTC 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Material"?						
4.04	Is the Contractor registered as a Chemical Waste Producer if chemical wastes are generated on-site?						
4.05	Are licensed chemical waste collectors employed to collect any chemical waste generated at site?						
4.06	Are handling, storage, transportation and disposal of chemical wastes conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD?						
4.07	Are sufficient number of covered bins provided on-site for the containment of general refuse to prevent visual impacts and nuisances? Are these bins emptied daily and the collected waste disposed of to WENT Landfill?						
4.08	Is the site maintained clean and hygienic throughout the project works?						Page 2 of 3

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
4.09	Are toolbox talks provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling?						
Section	Section 5: Others						
5.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits or at a convenient location for public's information at all times??						
5.02	Others:						

Remarks:

Follow-up Observation for 8 Nov 2012

- Silt was still observed at Drainage, this item will be follow-up in next reporting month.

New observation

- No specific observation was identified in this inspection.

Client ER IEC Contractor

() () (MA-SML ping) (Fang wan pong)

Appendix D

Summary of Implementation Status of Environmental Mitigation Measure

Appendix D Implementation Status of Recommended Mitigation Measures during Construction Stage - Water Management Facilities Enhancement Works

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
Air Quality	Measures for Construction Activities involving Excavations, Loading and Unloading of Soils	
(Section 4.1 of Project Profile) • All areas involving site clearance and excavations works will be sprayed with water before, during and a operations to maintain the entire surface wet;		Y
	 Restricting heights from which materials are to be dropped, as far as practicable to minimise the fugitive dust arising from unloading/ loading; 	Y
• Erection of hoarding of not less than 2.4 m high from ground level along the major work site boundary (the new p water tank and the new PFA storage silo), where appropriate;	• Erection of hoarding of not less than 2.4 m high from ground level along the major work site boundary (the new process water tank and the new PFA storage silo), where appropriate;	Y
	• Immediately before leaving a work site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, wetting of materials and surfaces should avoid excessive use of water;	Y
	Where a vehicle leaving a work site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not be released from the vehicle;	Y
	 Any stockpile of dusty materials on-site will be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides. They should also be sprayed with water immediately prior to any loading, unloading or transfer operation to dampen the dusty materials; 	Y
	• To reduce the traffic induced dust dispersion and re-suspension, the travelling speed of vehicles within the work sites should be controlled to within 10 km/h;	Y
	Any unpaved haul road shall be sprayed with water so as to maintain the entire road surface wet.	Y
	Measures for Partial Decommissioning of the West Coal Stockyard	
	During the clearance of the coal pile, coal dust will be suppressed by water sprays using the spray guns and water browser as existing normal operations at the coal stockyard.	N/A
Noise	Good Site Practice	
(Section 4.2 of Project Profile)	 Unused equipment should be turned off. PME will be kept to a minimum and the parallel use of noisy equipment/ machinery will be avoided; 	Y
	Regular maintenance of all plant and equipment;	Y
	Material stockpiles and other on-site structures will be effectively used as noise barriers, where practicable;	N/A
	Use of purpose-built movable noise barrier, silencer and quiet plant as necessary.	N/A

Environmental Aspect	Recommended Mitigation Measures	
Water Quality	Measures for Construction Site Runoff and Discharge	
(Section 4.3 of Project Profile)	 Surface runoff from the affected works areas are to be directed towards desilting facilities before discharging into the stormwater drainage; 	Y
	 Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above- mentioned facilities; 	Y
will be proper	• Existing on-site silt removal facilities, channels and manholes, if any, will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm and to ensure that these facilities are functioning properly at all times;	
	• Other manholes, if any, including any newly constructed ones will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system;	Y
	 Open stockpiles of materials on site will be avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of construction materials, soil, silt or debris; 	N/A
	• Sewage arising from the construction workers on-site will be collected by temporary sanitary facilities where necessary e.g. portable chemical toilets. Portable toilets will be used coupled with tankering away services provided by a reputable collector;	N/A
	• All site discharges will comply with the terms and conditions of a valid discharge licence issued by EPD;	Y
	 Vehicle washing facilities will be drained into desilting facilities before discharge. Water will be recycled on-site wherever possible. It is suggested that the wash water from wheel wash basins are either reused for site watering or pumped to the on-site desilting facilities for treatment; 	Y
	• Desilting facilities will be checked and the deposited silt and grit will be removed regularly to ensure that they are working properly at all times.	Y
	Protection against Accidental Spillage	
	 The works may occasionally involve the handling of fuel and generates a small amount of chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed and bunded areas and provided with locks; 	Y
	• If necessary, the storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidentally spillage;	N/A
	 Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas, if any; 	Y
	• Chemical waste arising from the site will be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation.	Y

Environmental Aspect	Recommended Mitigation Measures	Implementation Status
Waste	Waste Management Plan (WMP)	
Management Implications (Section 4.4 of the Project Profile)	The main contractor of the Project shall prepare a <i>Waste Management Plan (WMP)</i> , which will become part of the <i>Environmental Management Plan (EMP)</i> , with reference to the requirements set out in the <i>ETWB TCW No. 19/2005</i> , <i>Waste Management on Construction Sites</i> and the Practice Note for Authorized Persons and Registered Structural Engineers, e.g. <i>Practice Note No. 243 – Construction and Demolition Waste</i> . The WMP shall include monthly Waste Flow Tables (WFT) which indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and it should be updated regularly.	Y
	General waste management measures during Construction	
	• The reuse/recycling of all materials on-site shall be investigated and exhausted prior to treatment/ disposal off-site;	Y
	 All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill shall be disposed of at Fill Bank at Tuen Mun Area 38 whilst non-inert materials or construction waste shall be disposed of at the WENT Landfill. 	Y
	• The contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the contractor shall arrange for the collection of the recyclable materials.	Y
	• In order to monitor the disposal of public fill and construction waste at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of WBTC 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Material";	Y
	• Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on-site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD;	Y
	 A sufficient number of covered bins shall be provided on-site for the containment of general refuse to prevent visual impacts and nuisances. These bins shall be emptied daily and the collected waste disposed of to the WENT Landfill. Further to the issue of ETWB TCW No. 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness, the contractor will be required to maintain a clean and hygienic site throughout the project works; 	Y
	• Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	N/A
Land Contamination (Section 4.5 of Project Profile)	Based on the recent SI result, signs of land contamination were not identified and no mitigation measures are considered necessary. However, the situation will be reconfirmed after the SI work at the coal stockyard proposed in the CAP is completed. The SI results will be documented in a Contamination Assessment Report (CAR). If contamination is identified, the necessary remediation method will be proposed and documented in the Remediation Action Plan (RAP) for EPD's approval. If remediation is necessary, the CAPCO will clean up the contaminated land according to the approved RAP, and a Remediation Report (RR) will be prepared to demonstrate that the concerned area(s) have been cleaned up to the	N/A

Environmental Aspect		
	relevant RBRG's standards. The RR will be submitted to EPD for agreement prior to the commencement of any development or redevelopment works.	
Landscape & Visual (Section 4.7 of Project Profile)	No mitigation measures for landscape and visual impacts are considered necessary, as no adverse landscape and visual impacts are identified during the construction and operation of the Project.	N/A

Notes:

- Y Compliance of Mitigation Measures
 N Non-compliance of Mitigation Measures
 D Deficiency of Mitigation Measures
 N/A Not Applicable in Reporting Period

- Non-compliance of Mitigation Measures but rectified by the Contractor
- Deficiency of Mitigation Measures but rectified by the Contractor