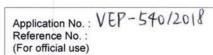
FORM
5



FORM 5 ENVIRONMENTAL IMPACT ASSESSMENT ORDINANCE (CHAPTER 499) SECTION 13(1)

Application for Variation of an Environmental Permit

PART A PREVIOUS APPLICATIONS

V No	previous application for variation of ar	n environmental permit.
The The	e environmental permit was previously	amended.
Ар	plication No. :	
PART B	DETAILS OF APPLICANT	
	: (person or company) ater Supplies Department	
		Ordinance, the person holding an environmental permit or a person who project may apply for variation of the environmental permit.]
B2. Busine (if appli	ess Registration No. :	
B3. Corres	pondence Address :	
B4. Name	of Contact Person :	B5. Position of Contact Person :
B6. Teleph	one No. :	B7. Fax No. :
B8. E-mail	Address : (if any)	
PART C	DETAILS OF CURRENT ENV	IRONMENTAL PERMIT
	of the Current Environmental Permi Supplies Department	t Holder :

C2. Application No. of the Current Environmental Permit : AEP-503/2015

C3. The Current Environmental Permit was Issued in : month / year

122015

Important Notes :	Please submit the application together with	115 177
	(a) 3 copies of this completed form; and	a fulling the
	(b) appropriate fee as stipulated in the Environmental Impact Assessm	ent (Fees) Regulation
	to the Environmental Protection Department at the following address :	RECEIVED
10 1	The EIA Ordinance Register Office, 27th floor, Southorn Centre,130 Hennessy Road,	- 5 JAN 2018
	Wan Chai, Hong Kong.	EIAO Register
\Box Tick (\checkmark) the approp	priate box	Ser and a series of the series
EPD185		90 50 70 50

PART D PROPOSED VARIATIONS TO THE CONDITIONS IN CURRENT ENVIRONMENTAL PERMIT

D1.	D2.	D3.	D4.	D5.	D6.	D7.
Condition(s) in the Current Environmental Permit :	Proposed Variation(s) :	Reason for Variation(s) :	Describe the environmental changes arising from the proposed variation(s) :	Describe how the environment and the community might be affected by the proposed variation(s) :	Describe how and to what extent the environmental performance requirements set out in the EIA report previously approved or project profile previously submitted for this project may be affected :	Describe any additional measures proposed to eliminate, reduce or control any adverse environmental impact arising from the proposed variation(s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process :
Figure 1 – Project Location Plan Figure 2 – Layout Plan of the Project	Proposed variation (1) : Figure 1 is proposed to be amended with the revised boundary of the desalination plant site to reduce the site area from about 10 hectare (ha) under the original scheme in the approved EIA Report to about 8 ha within the original earmarked site. Proposed variation (2) : Figure 2 is proposed to be deleted from the Environmental Permit (EP).	Proposed variation (1) : The site area of the desalination plant is reduced to optimise the land footprint of the plant. Proposed variation (2) : On-site chlorine generation technology to generate chlorine gas will be adopted to provide a more reliable and secure supply of chlorine and replace the use of imported liquid chlorine for the disinfection of potable water. As a result, the locational constraint of the chlorine storage building within the layout of the desalination plant as illustrated in Figure 2 is no longer required. The requirement of the carbon dioxide storage is already stipulated in Condition 2.22 and Table 1 of the EP.	Proposed variation (1) : A more compact layout of plant facilities with increased maximum building height from 20m under the original scheme of the approved EIA Report to 35m is proposed. As compared to the prediction in the approved EIA Report, the potential environmental impact arising from the proposed variations will not induce adverse environmental impact at nearby sensitive receivers. The potential concern on landscape and visual impact due to the proposed variation is reviewed in Item D5. Proposed variation (2) : The proposed on-site chlorine generation technology will have an environmental benefit of eliminating the hazard due to transport (on-site and off-site), use and storage of liquid chlorine.	Proposed variation (1) : Under the revised design, the total number and type of Landscape Resources (LRs) and Landscape Character Areas (LCAs) to be affected will remain unchanged. Re-arrangement of building blocks and increase in building height within the earmarked site of the desalination plant will have no significant effect on other parameters such as compatibility with the surrounding landscape, duration of impact and reversibility of change to LRs and LCAs as well as the landscape impact significance in the approved EIA Report will remain the same. All key landscape mitigation measures recommended in the EIA Report (such as green roof, roadside planting, aesthetic treatment of all structures, vertical greening, planting along plant site boundaries) have been reviewed to remain valid and applicable.	The environmental performance requirements set out in the approved EIA Report will be maintained under the revised design. The proposed variation does not change the extent of environmental impacts predicted in the approved EIA Report.	The mitigation measures recommended in the approved EIA Report have been reviewed to be adequate for the revised site boundary and layout. No additional mitigation measures are required for the proposed variations.

مر

PART D PROPOSED VARIATIONS TO THE CONDITIONS IN CURRENT ENVIRONMENTAL PERMIT (CONTINUED)

D1.	D2.	D3.	D4.	D5.	D6.	D7.
Condition(s) in the Current Environmental Permit :	Proposed Variation(s) :	Reason for Variation(s) :	Describe the environmental changes arising from the proposed variation(s) :	Describe how the environment and the community might be affected by the proposed variation(s) :	Describe how and to what extent the environmental performance requirements set out in the EIA report previously approved or project profile previously submitted for this project may be affected :	Describe any additional measures proposed to eliminate, reduce or control any adverse environmental impact arising from the proposed variation(s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process :
				The waterfront location of the Project and the ridgeline along the Clear Water Bay Peninsula at the Project's backdrop has been taken into consideration in reviewing the visual impacts. The section of ridgeline running from High Junk Peak (344mPD) to Tin Ha Shan (273mPD) around Tin Ha Shan at the back of the proposed desalination plant is of average height ranging from 200m to 300m. With reference to the new proposed maximum building height of the desalination plant of 35m, there will be over 80% of buffer allowed to preserve views to the ridgeline. As illustrated in the photomontages, the increase in building height would cause minor change on the visual effect as comparing to the former scheme in the		
				approved EIA Report. Overall the findings and conclusion on landscape and visual assessment of the approved EIA report would not be affected by the revised site boundary and new building height.		

PART D PROPOSED VARIATIONS TO THE CONDITIONS IN CURRENT ENVIRONMENTAL PERMIT (CONTINUED)

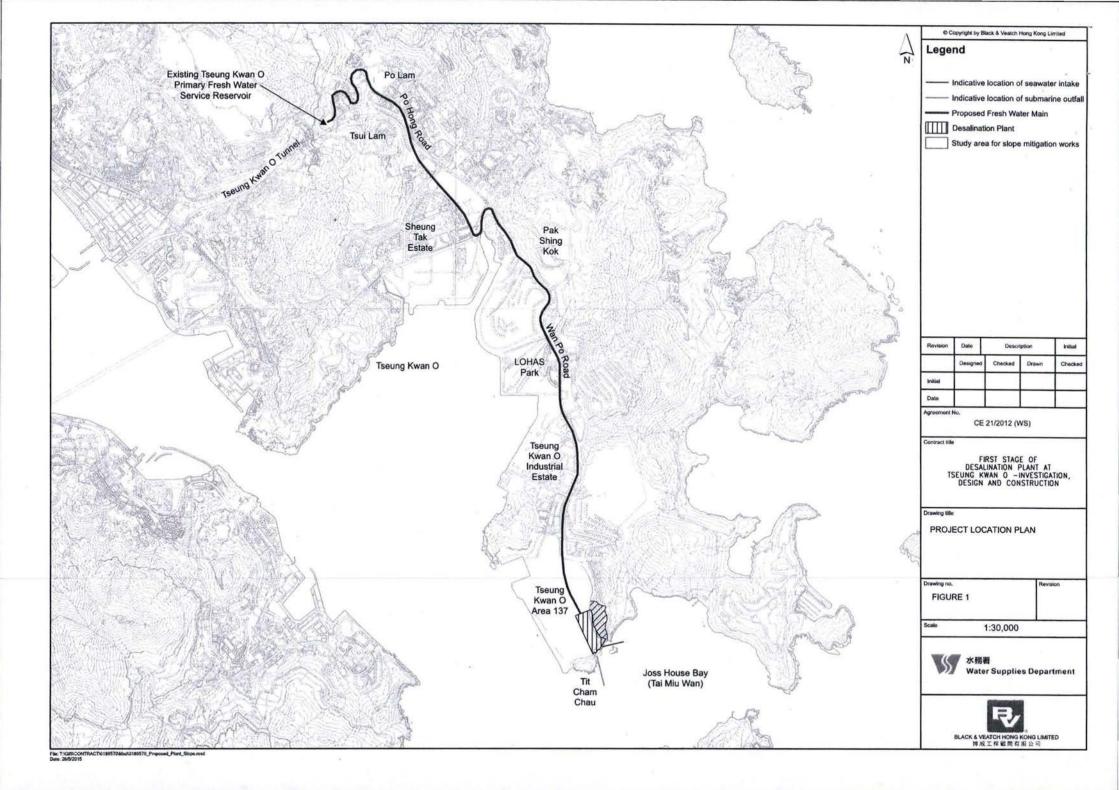
D1.	D2.	D3.	D4.	D5.	D6.	D7.
Condition(s) in the Current Environmental Permit :	Proposed Variation(s) :	Reason for Variation(s) :	Describe the environmental changes arising from the proposed variation(s) :	Describe how the environment and the community might be affected by the proposed variation(s) :	Describe how and to what extent the environmental performance requirements set out in the EIA report previously approved or project profile previously submitted for this project may be affected :	Describe any additional measures proposed to eliminate, reduce or control any adverse environmental impact arising from the proposed variation(s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process :
				Proposed variation (2) : The proposed on-site chlorine generation technology will eliminate the hazard due to transport (on-site and off-site), use and storage of liquid chlorine, and thus reduce the risk to human life and the development constraints in the vicinity.		

PART E DECLARATION BY APPLICANT

belief. I unders	stand the environm	given above are correct and true to nental permit may be suspended sleading, wrong or incomplete.	
– Signature	of Applicant	Full Name in Block Letters	Position
ė.			
on behalf of		plies Department he and Chop (as appropriate)	5/1/2018 Date

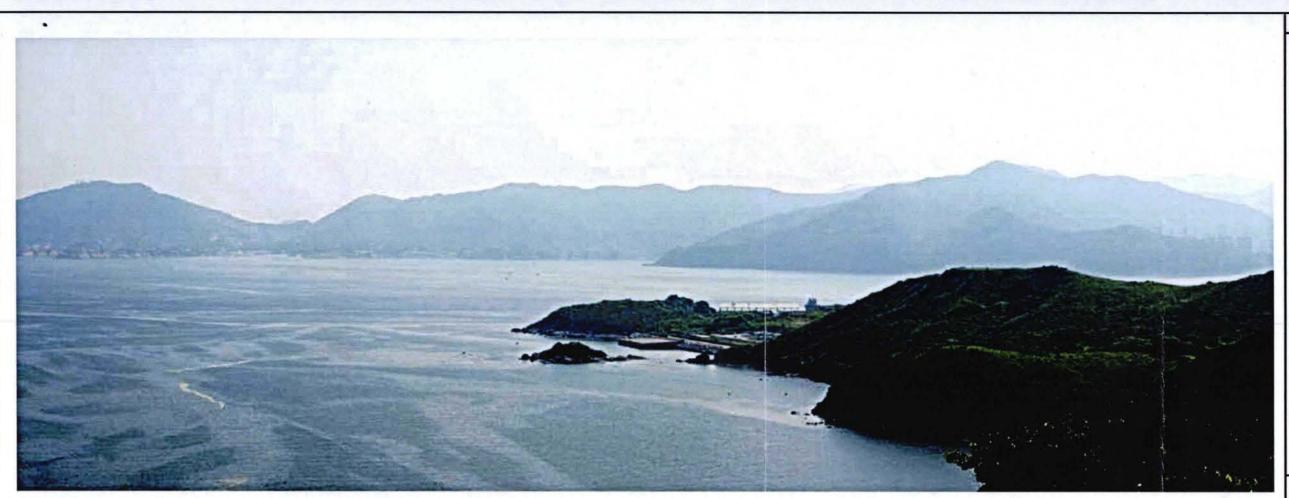
NOTES :

- A person who constructs or operates a designated project in Part I of Schedule 2 of the Ordinance or decommissions a designated project listed in Part II of Schedule 2 of the Ordinance without an environmental permit or contrary to the permit conditions commits an offence under the Ordinance and is liable to a maximum fine of \$5,000,000 and to a maximum imprisonment for 2 years.
- A person for whom a designated project is constructed, operated or decommissioned and who permits the carrying out of the designated project in contravention of the Ordinance commits an offence and is liable to a maximum fine of \$5,000,000 and to a maximum imprisonment for 2 years.

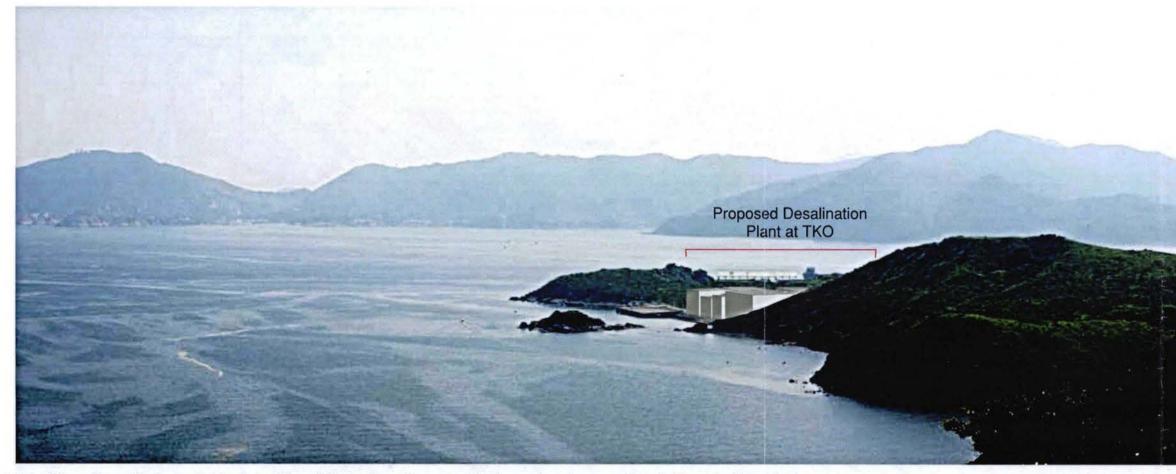


Annex A – Photomontages for the Revised Scheme

Definitions	: / Abbreviations
VP:	Vantage Point
ММ3:	 Landscape and visual mitigation measures including green roofs where practical roadside planting; aesthetic treatment of all structures; vertical greening; screen planting along application site; and landscape enhancement with amenity planting where practical, including planting along the edge (site boundary) fence with native shrubs where feasible to reduce their visual impact and blend them into the surrounding landscape.



VP1 - Existing View from High Junk Peak in Clear Water Bay Country Park



VP1 - View from High Junk Peak in Clear Water Bay Country Park on day 1 operation (without mitigation)



FIRST STAGE OF DESALINATION PLANT AT TSEUNG KWAN O -INVESTIGATION, DESIGN AND CONSTRUCTION

PHOTOMONTAGES FROM VP1 (HIGH JUNK PEAK TRAIL) (SHEET 1 OF 2)

Contract title

Drawing title

Revision

Date

	Designed	Checked	Drawn	Checked
Initial				
Date				
Agreement	No. CE	8/2015	ó (WS)	

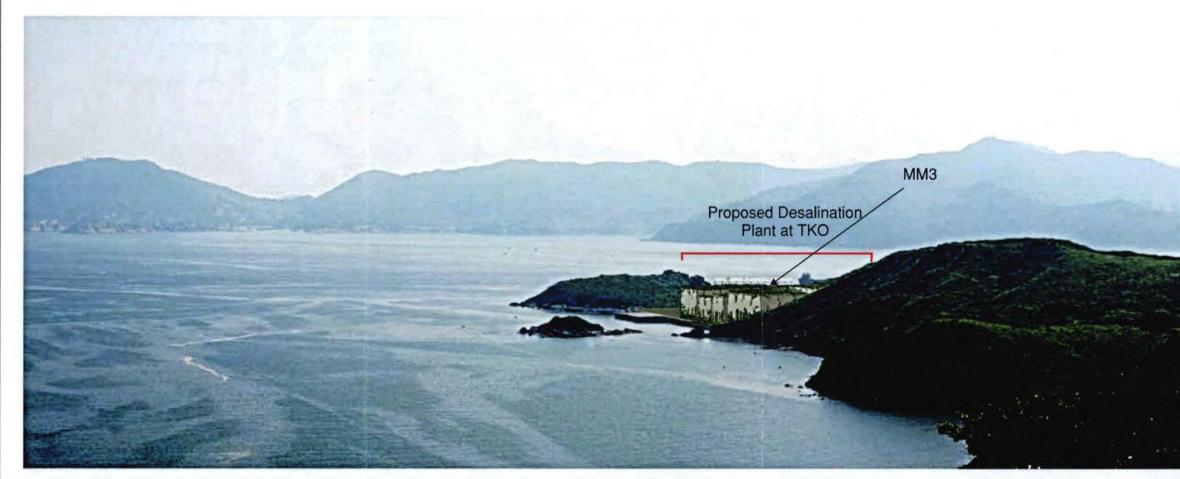
Description

Initial

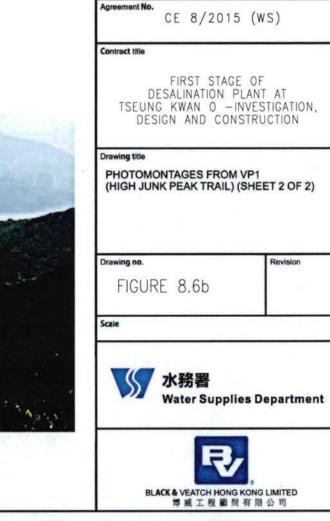
Copyright by Black & Veatch Hong Kong Limited

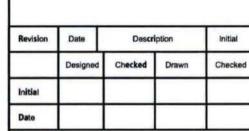


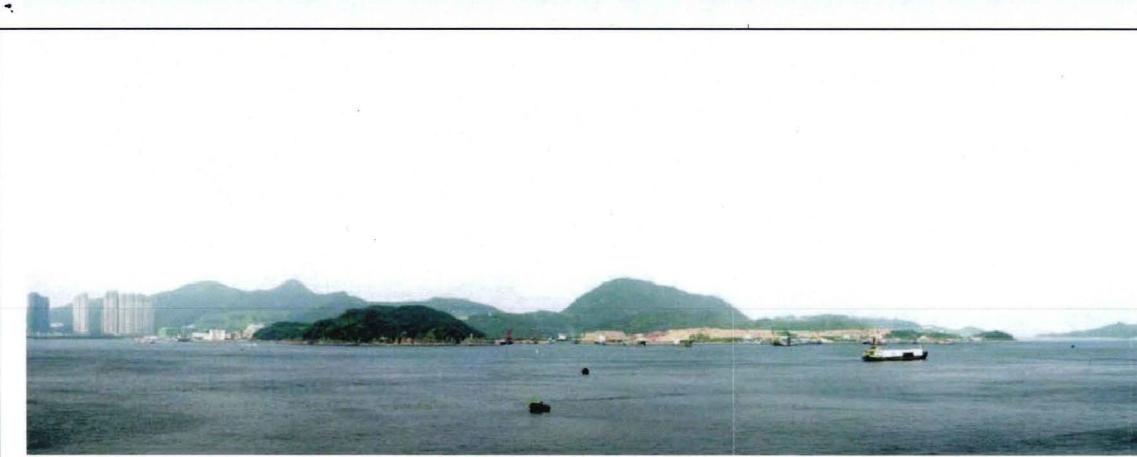
VP1 - View from High Junk Peak in Clear Water Bay Country Park on day 1 operation (with mitigation)



VP1 - View from High Junk Peak in Clear Water Bay Country Park at Year 10 (with mitigation)





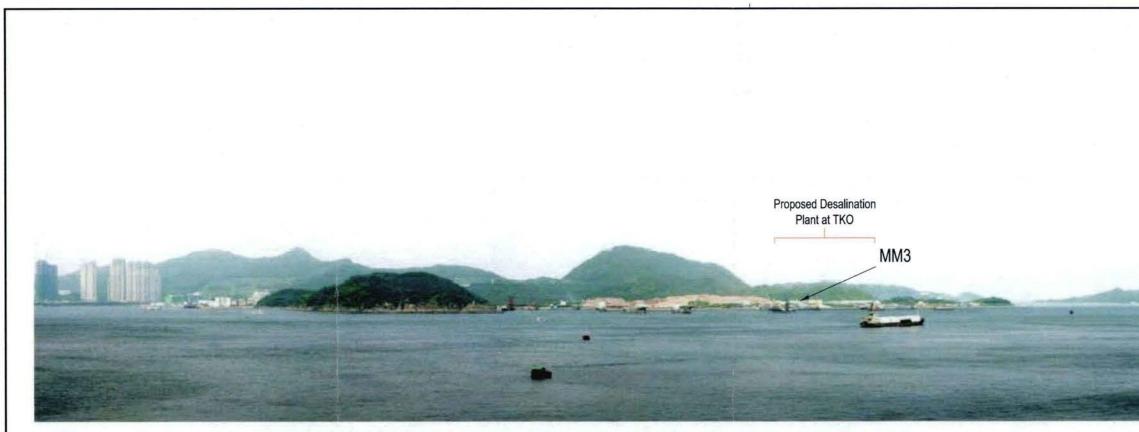


VP2 - Existing View from Podium of Island Resort, Siu Sai Wan



VP2 - View from Podium of Island Resort, Siu Sai Wan on day 1 operation (without mitigation)

	C Capyright by Block & Vestch Hong Kong Limited	
-		
10.5		
-		
	Revision Dote Gescription	Initial
	Designed Checked Drown	Checked
	Dele	-
	Agreement No.	
-	CE 8/2015 (WS) Centroct Title	_
-	FIRST STAGE OF DESALINATION PLANT AT TSEUNG KWAN O - INVESTIGAT	
	TSEUNG KWAN O -INVESTIGAT DESIGN AND CONSTRUCTION	ION, N
-	Drowing Title	
Set of	PHOTOMONTAGES FROM (ISLAND RESORT)	VP2
		T 1 OF
	Drowing No. FIGURE 8.7a	Revision —
	Scale N.T.S.	
	水務署 Water Suppl Departmen	
	Water Suppl	ies

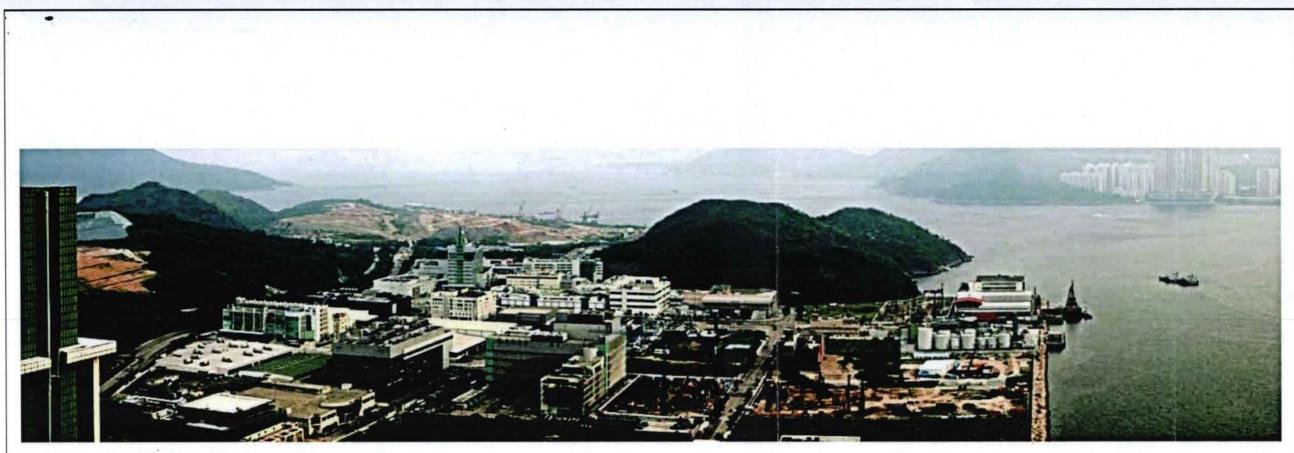


VP2 - View from Podium of Island Resort, Siu Sai Wan on day 1 operation (with mitigation)



VP2 - View from Podium of Island Resort, Siu Sai Wan at Year 10 (with mitigation)

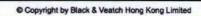
	C Copyright by Block & Vestch Hang Kang Limited
-	
-	
	×
	Revision Date Description Initial Designed Checked Drown Checker
	Initial Date
	Approved
	Agreement No. CE 8/2015 (WS)
	Contract Title
the second	FIRST STAGE OF DESALINATION PLANT AT TSEUNG KWAN O -INVESTIGATION,
The Party number of the Pa	TSEUNG KWAN 0 - INVESTIGATION,
	TSEUNG KWAN O -INVESTIGATION, DESIGN AND CONSTRUCTION
-	DESIGN AND CONSTRUCTION
	PHOTOMONTAGES FROM VP2 (ISLAND RESORT)
	DESIGN AND CONSTRUCTION Drowing Title PHOTOMONTAGES FROM VP2 (ISLAND RESORT) (SHEET 2 OF Drowing No. Revision
	DESIGN AND CONSTRUCTION Drowing Title PHOTOMONTAGES FROM VP2 (ISLAND RESORT) (SHEET 2 OF Orowing No. FIGURE 8.7b
	DESIGN AND CONSTRUCTION Drowing Title PHOTOMONTAGES FROM VP2 (ISLAND RESORT) (SHEET 2 OF Drowing No. FIGURE 8.7b Scole N.T.S.
	DESIGN AND CONSTRUCTION Drowing Title PHOTOMONTAGES FROM VP2 (ISLAND RESORT) (SHEET 2 OF Drowing No. FIGURE 8.7b Scole N.T.S.
	DESIGN AND CONSTRUCTION Drawing Title PHOTOMONTAGES FROM VP2 (ISLAND RESORT) (SHEET 2 Of Stole Revision FIGURE 8.7b - Scole N.T.S.



VP3 - Existing View from Block 1 of LOHAS Park



VP3 - View from Block 1 of LOHAS Park on day 1 operation (without mitigation)



	Designed		Drawn	
Initial		_		
Date				
Agreement		2015 (\	WS)	
Contract li	le			
Drawing tit PHOTO (LOHA)	DESALIN UNG KWA DESIGN A MONTAGI S PARK) (S	ND CONS	LANT AT NVESTIGA STRUCTIO	TION, N
FIGL	JRE 8.8	Ba	Revisi	OR
Scale				_

Initial

Checked

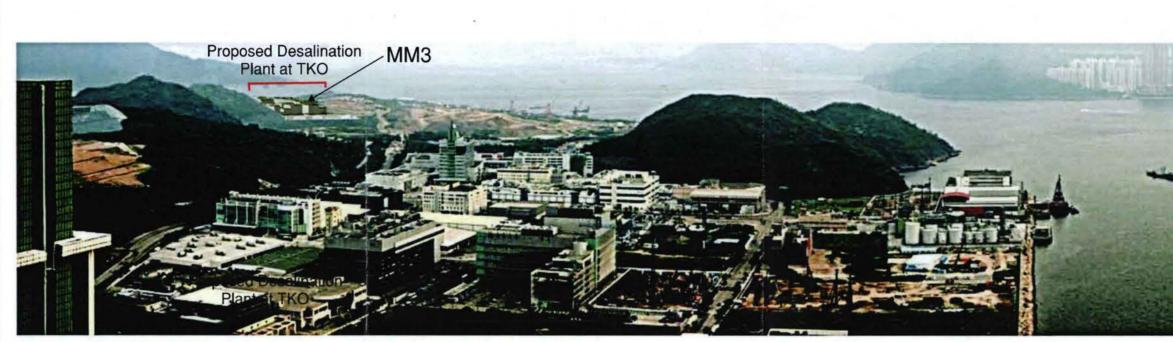
Descriptio

Checked Drawn

Date

Designed

Revision



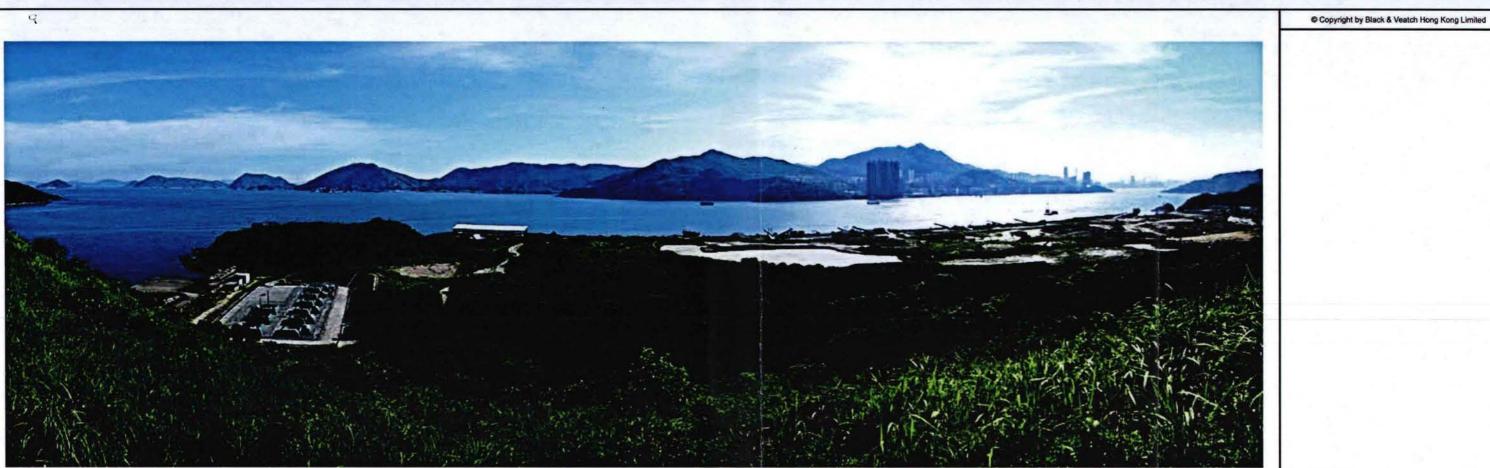
VP3 - View from Block 1 of LOHAS Park on day 1 operation (with mitigation)



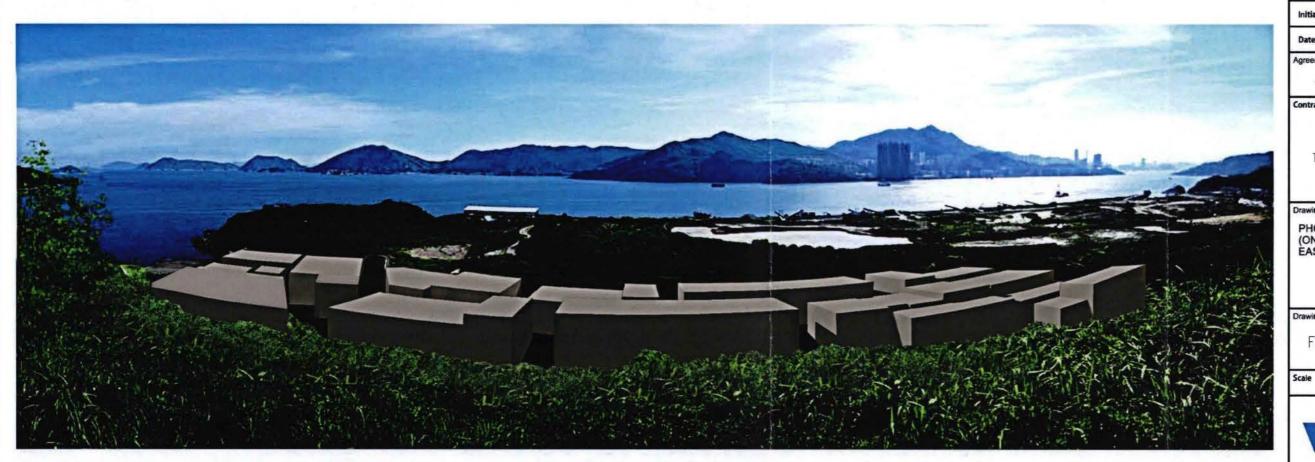
VP3 - View from Block 1 of LOHAS Park at Year 10 (with mitigation)

	Revision	Date	Descr	iption	Initial
		Designed	Checked	Drawn	Checked
	Initial				
	Date				
<u>10-11</u>	Agreement N	CE 8	8/2015 RST_STAG	E OF PLANT AT	
	Drawing title PHOTO	MONTAG	VAN 0 - AND COM	VP3	ATION, ON
	Drawing no. FIGUR Scale	2E 8.8t)	Revisi	on
		BLACK & VE	著 Fr Supplie	KONG LIMITE	

Copyright by Black & Veatch Hong Kong Limite



VP4 - Existing View from Walking Trail on Knoll at East of the Site



VP4 - View from Walking Trail on Knoll at East of the Site on day 1 operation (without mitigation)

Revision	Date	Description		Initial
	Designed	Checked	Drawn	Checked
Initial				
Date				

CE 8/2015 (WS)

Contract title

FIRST STAGE OF DESALINATION PLANT AT TSEUNG KWAN O -INVESTIGATION, DESIGN AND CONSTRUCTION

rawing title PHOTOMONTAGES FROM VP4 (ON KNOLL OF WALKING TRAIL AT EAST OF THE SITE) (SHEET 1 OF 2)

Drawing no.

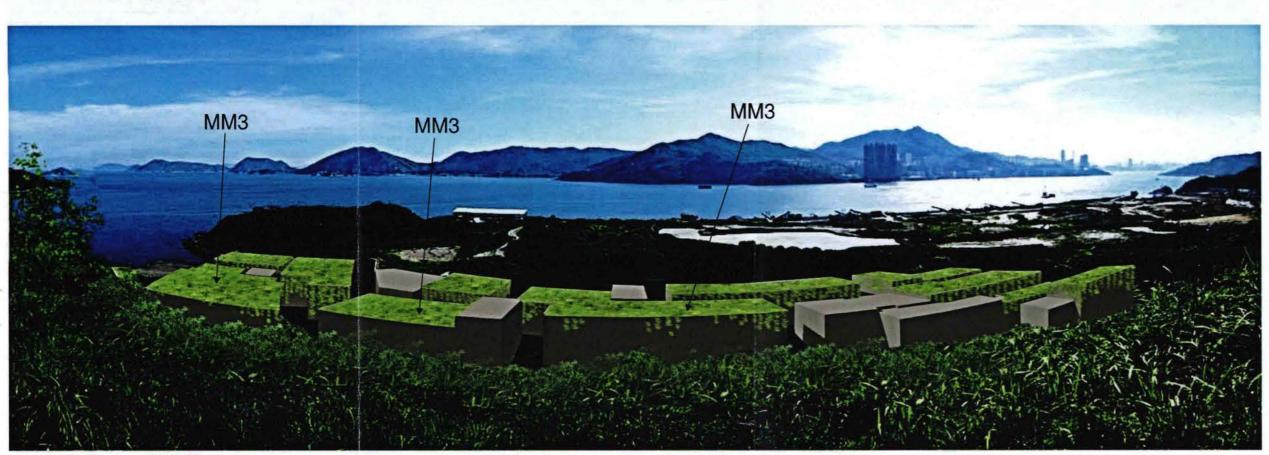
\$

FIGURE 8.9a

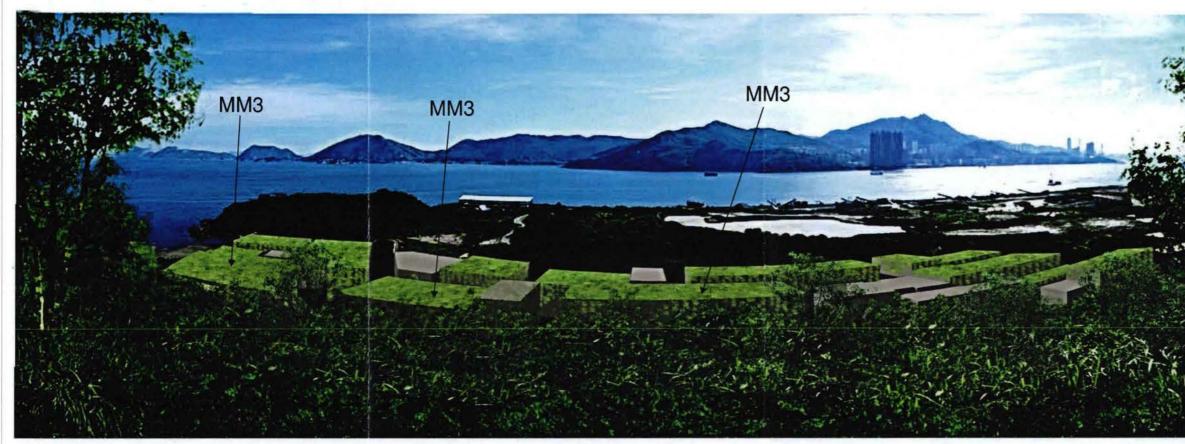
水務署



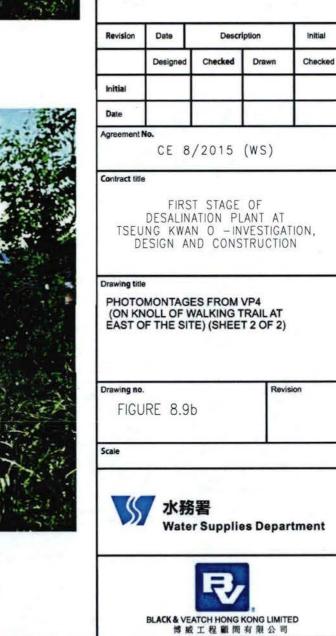
Water Supplies Department

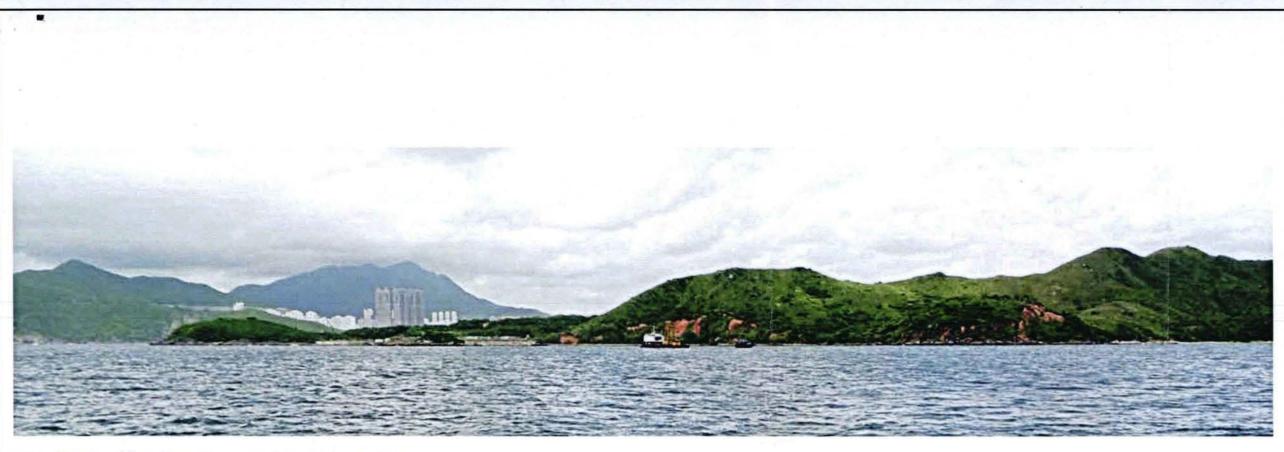


VP4 - View from Walking Trail on Knoll at East of the Site on day 1 operation (with mitigation)

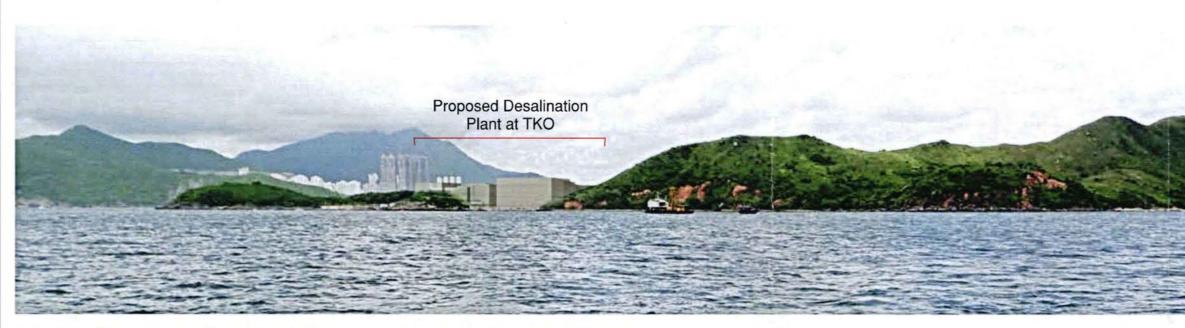


VP4 - View from Walking Trail on Knoll at East of the Site at Year 10 (with mitigation)





VP5 - Existing View from the sea of Joss House Bay



VP5 - View from the sea of Joss House Bay on day 1 operation (without mitigation)

Revision	Date	Descri	ption	Initial
	Designed	Checked	Drawn	Checked
Initial				
Date				

Copyright by Black & Veatch Hong Kong Limited

CE 8/2015 (WS)

Contract title

FIRST STAGE OF DESALINATION PLANT AT TSEUNG KWAN O -INVESTIGATION, DESIGN AND CONSTRUCTION

Drawing title PHOTOMONTAGES FROM VP5 (JOSS HOUSE BAY) (SHEET 1 OF 2)

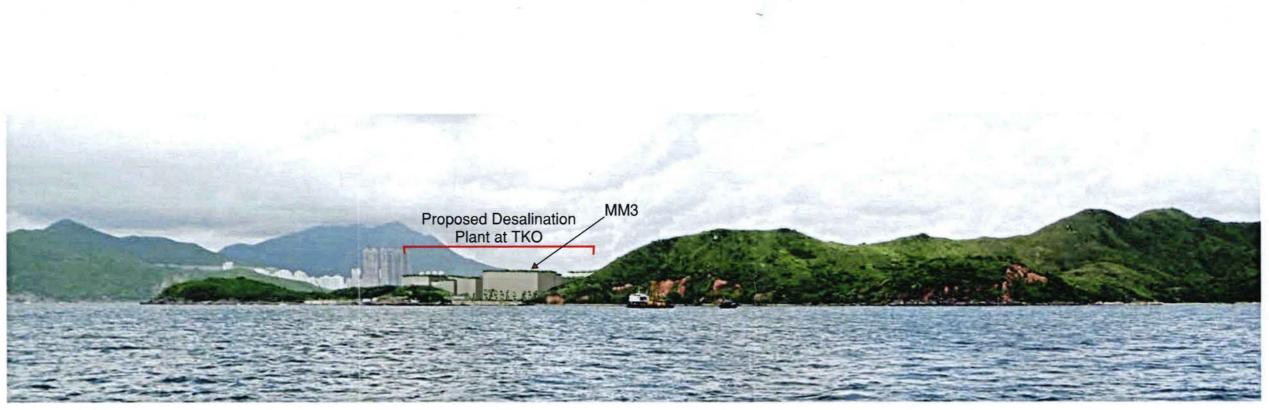
Drawing no.

FIGURE 8.10a

Scale







VP5 -View from the sea of Joss House Bay on day 1 operation (with mitigation)



VP5 - View from the sea of Joss House Bay at Year 10 (with mitigation)

File: Q:\CONTRACT\0189570\Photomontage\VP5\0189570s.cdr





水務署 Water Supplies Department

Scale

Drawing no.

FIGURE 8.10b

Neviardi

cked

Drawing title PHOTOMONTAGES FROM VP5 (JOSS HOUSE BAY) (SHEET 2 OF 2)

FIRST STAGE OF DESALINATION PLANT AT TSEUNG KWAN O -INVESTIGATION, DESIGN AND CONSTRUCTION

Contract title

Agreement No. CE 8/2015 (WS)	 		
	 CE	8/2015	(WS)

Revision Date Description Designed Checked Drawn					
Revision Date Description					
		Data	Descri	ation	Т
	REVISION	Uate	Dostri	puon	