

PROJECT NO.: TCS/00408/08

DSD CONTRACT NO. DC/2007/17 DRAINAGE IMPROVEMENT WORKS IN CHEUNG PO, MA ON KONG, YUEN KONG SAN TSUEN AND TIN SAM TSUEN OF YUEN LONG DISTRICT AND SEWERAGE AT TSENG TAU CHUNG TSUEN, TUEN MUN

MONTHLY EM&A REPORT FOR KT13 (DECEMBER 2009)

PREPARED FOR CHINA ROAD & BRIDGE CORPORATION

Quality Index Reference No. Prepared By Certified by 14 January 2010 TCS00408/08/600/R1341v2 MMM MM Nicola Hon Andrew Lau

Nicola Hon Environmental Consultant Andrew Lau Environmental Team Leader

Version	Date	Prepared by:	Certified by:	Description
1	9 Jan 2010	Nicola Hon	Andrew Lau	First submission
1	14 Jan 2010	Nicola Hon	Andrew Lau	Amended against IEC's comments on 14 Jan 2010

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Ove Arup & Partners 奥 雅 納 工 程 顧 問

-Our ref 25211/L165/CN/c1 -Date 15 January 2010

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By Fax and Post

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Dear Ms. Lui,

Contract No. DC/2007/17 Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen King San and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun <u>Monthly EM&A Report for KT13 (December 2009) – Version 2</u>

We refer to the captioned report (ref.: TCS00408/08/600/R1341v2) and advise that we have no further comment on the captioned submission.

We hereby endorse the captioned report for your onward submission.

If you require any further information, please do not hesitate to contact the undersigned.

Yours sincerely,

Coleman Ng Independent Environmental Checker

cc: China Road and Bridge Corporation (Mr. Raymond Mau) (Fax: 2478 9612) AUES (Mr. TW Tam / Mr. Andrew Lau) (Fax: 2959 6079)



Executive Summary

ES01 This is the **15th** monthly EM&A report for the Channel KT13, covering the construction period from **26 November 2009 to 25 December 2009** (the Reporting Period).

Breaches of Action and Limit Levels

- ES02 Monitoring results of the Reporting Period demonstrated no exceedance of environmental quality criteria for air quality, construction noise and ecology.
- ES03 A total of six (6) Limit Level exceedances of water quality criteria, due to suspended solids (SS) and zinc were recorded at designated location W6 during the Reporting Period. The causes of the exceedances are still under investigation. During site inspection, influx of discharge from the nearby pig farm into the channel resulted in increased turbidity of the water body was observed. All measured parameters of those 6 samples are summarized below:

Location	Exceedance	DO	Turbidity	рΗ	SS	NH₄ ⁺⁻ N	Zn	Total
W6	Action Level	0	0	0	0	0	0	0
	Limit Level	0	0	0	5	0	1	6
Total	Action Level	0	0	0	0	0	0	0
	Limit Level	0	0	0	5	0	1	6

- ES04 Since construction work at Channel KT13 had entered the area within 100m of the cultural heritage site (the grave), five (5) events of weekly settlement monitoring were undertaken in this reporting month. There were two (2) action level exceedances recorded on the settlement monitoring. Investigation for the cause of exceedances was conducted that it was noted that the measured levels fluctuated within ±2mm regularly which indicated that the circumstances were normal. Also, construction works undertaken by others were observed within 100m of the grave (our monitoring area) and a platform for car parking was built and in used by the villager. It is concluded that the exceedances were not related to the works under the project.
- ES05 Landscape inspections were conducted on **7** and **21 December 2009**. No significant changes were observed for the identified landscape resources and visual sensitive receivers, except for minor changes due to channel excavation, site clearance and preparation work at the identified landscape resources including LR1, LR2.1, LR2.2, LCA1, LCA3 and LCA4.

Environmental Complaint, Notification of Summons and Prosecution

ES06 No documented complaint, notification of summons or successful prosecution was received during the Reporting Period. No major environmental impacts were observed during the weekly site inspection. Environmental audit of the Reporting Period indicated that the implemented mitigation measures for air quality, construction noise and ecology were effective. Minor deficiencies found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.



Reporting Changes

ES07 No reporting changes were made during the Reporting Period.

Future Key Issues

- ES08 As dry season has come, dust control measures to avoid dust emissions should be properly provided and maintained, as appropriate. In addition, the implemented mitigation measures such as sand bags downstream of the excavation site may also be improved to cater for additional water flows during wet season.
- ES09 CRBC was reminded to fully implement the required water quality mitigation measures during construction under the Project, in particular when excavation and the associated channel works are undertaken and construction wastewater is generated and discharged into Channel KT13.
- ES10 Special attention should be paid to construction noise and other environmental issues identified in the EM&A Manual as recommended in the EIA and summarized in Mitigation Measure Implementation Schedule.
- ES11 Proposal for adopting the pH range of 6 to 9 pH value in place of the existing pH Action and Limit Level has been approved by ER and IEC's. The submission has been proceeding to EPD for formal approval.



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1 ENVIRONMENTAL STATUS

This is the **15th** monthly EM&A report for KT13, covering the construction period from **26 November 2009 to 25 December 2009** (the Reporting Period).

1.1 PROJECT AREA AND CONSTRUCTION PROGRAMME

Drawings showing the project area, any environmental sensitive receivers and the locations of the monitoring and control stations are presented in *Appendix A*, and the construction program in *Appendix B*.

1.2 WORKS UNDERTAKEN DURING THE REPORTING PERIOD

Apart from general works of tree survey, structural survey and environmental monitoring & audit, works undertaken during the Reporting Period with fine tuning of construction activities showing the inter-relationship with environmental protection/mitigation measures for the month are summarized as follows:

- Excavation of channel formation
- Construction of channel structure
- Backfilling
- Installation of type 2 railing
- Construction of Box Culvert
- Laying underground drain pipe
- Laying of Gabion Block/Granite Block
- Condition survey for historic grave (KT13-02-02)

1.3 Environmental Management Organization

Management structure and key personnel contact names and telephone numbers of the environmental management organization are presented in *Appendix C*, where DSD is the Project Proponent; CRBC is the main Contractor; EPD and AFCD are the supervisory departments for environmental protection of the Project; BVHKL is the Engineer's Representative of DSD (the ER); ARUP is the Independent Environmental Checker (the IEC) and Action-United Environmental Services and Consulting (AUES) is the environmental team (the ET).

1.4 LICENSING STATUS

1.4.1 Air Pollution Control (Construction Dust) Regulation

Pursuant to the *Air Pollution Control (Construction Dust) Regulation,* CRBC has notified EPD, via submission of Form NA dated 14 February 2008, of the scope and nature of the works to be carried out under the Project, including construction activities such as stockpiling, loading and unloading, transfer of dusty material, use of vehicles and debris handling, etc. CRBC will continuously review the status of the environmental licenses and apply the required licenses/permits prior to the commencement of construction work.

1.4.2 Noise Control Ordinance

No *Construction Noise Permit* (CNP) is required for the Project pursuant to the Noise Control Ordinance (NCO) and the associated applicable subsidiary regulations of *Noise Control (General) Regulation, Noise Control (Hand-held Percussive Breaker) Regulation and Noise Control (Air Compressor) Regulation,* as the use of powered mechanical equipment, or conducting construction work in during restricted hours, i.e. 1900 to 0700 hours on normal weekdays and any time on general holidays including Sundays is not anticipated during the whole construction period. CRBC will continuously review the status of the environmental licenses under the NCO and apply the required licenses/permits prior to the commencement of construction work.



- 1.4.3 Waste Disposal (Charges for Disposal of Construction Waste) Regulation
 CRBC has applied for a Billing Account (Construction Work Contract with Value of \$1million or above), under the Waste Disposal (Charges for Disposal of Construction Waste)
 Regulation. The account number 7006524 has been assigned on 9 Jan 2008.
- 1.4.4 Water Pollution Control Ordinance
 CRBC has applied for a discharge license under Section 20 of the Water Pollution Control Ordinance, and the license No. 1U461/1 has been issued.
- 1.4.5 Waste Disposal (Chemical Waste) (General) Regulation CRBC has registered as a Chemical Waste Producer with EPD under the Waste Disposal (Chemical Waste) (General) Regulation and the Waste Producer Number assigned is WPN: 5611-531-C3124-28 dated 2 May 08.
- 1.4.6 Dumping at Sea Permit

CRBC has been granted by the Environmental Protection Department a Permit Issued under the *Dumping at Sea Ordinance* (Permit no. EP/I4D/08-095, dated 18 September 2008, permit validity period of six months from 18 September 2008 to 17 March 2009) for disposal of 18,469 m³ sediment, requiring Type 1 – open sea disposal at East Sha Chau Contaminated Mud Disposal Site – Pit IV b, to be capped as directed by the Management Team of the Civil Engineering and Development Department. Note that this permit has expired. As there is no need for further sea disposal, no further permits will be required in the future.

1.5 Environmental Protection and Pollution Control Mitigation Measures

CRBC has committed to implement environmental protection and pollution control and mitigation measures, as recommended in the EIA, EP, EM&A Manuals, and summarized in the Mitigation Measures Implementation Schedules. The implemented mitigation measures include

- (a) Watering of stockpiles of rip-rap at KT13;
- (b) Covering of the loose soil at KT13 to minimize water quality impacts;
- (c) Hard pavement of haul road leading to public roads at KT13;
- (d) Classification and disposal of illegally dumped construction and demolishment materials at KT13;
- (e) Construction of noise barriers; and
- (f) Erection of dams with sand bags downstream the excavation site within the water course of KT13 to enhance sedimentation of turbidity and suspended solids (SS).



2 MONITORING METHODOLOGY

2.1 **MONITORING PARAMETERS**

According to the EM&A requirements set out in the EIA, Environmental Permit No. EP263/2007 (the EP) and the associated EM&A Manual, the required monitoring parameters are summarized as follows.

Table 2-1 **Summary of Monitoring Parameters**

Environmental Issue	Monitoring Parameters			
Air Quality	 (a) 1-hour Total Suspended Particulate (1-hour TSP); and (b) 24-hour Total Suspended Particulate (24-hour TSP). 			
Construction Noise	 (a) A-weighted equivalent continuous sound pressure level (30min) (Leq(30min) during the normal working hours; and (b) A-weighted equivalent continuous sound pressure level (5min) (Leq(5min) for construction work during the Restricted Hours. 			
Water Quality	Measurement	d oxygen (DO), pH & turbidity		
	(b) Laboratory suspended solids (SS Analysis (Zn)	S), Ammonia Nitrogen (NH ₃ -N) and Zinc		
Ecology Vegetation, all bird species of wetland, Ho Pui Egret, Ma On Hong Egret and Survey		i Egret, Ma On Hong Egret and Flight Line		
Waste Management	Inspection and the document audit			
Cultural Heritage	Condition survey for a historical grave			
Landscape & Visual	To audit the implementation of the proposed construction phase mitigation measure stipulated in EIA.			

2.2 **MONITORING LOCATIONS**

Details of the monitoring locations are summarized in Table 2-2 and shown in Appendix A. For ease of reference, monitoring locations denoted with "(a)" are relocated locations to differentiate them from the original 'EM&A Manual' locations.

Environmental	Monitoring	Identified Address /	Status of Mon
Issues	Location	Co-ordinates	for Recor
Air	A1(a)	No.68 Ho Pui Village	

Table 2-2Summary of Monitoring Locations

Environmental Issues	Monitoring Location	Identified Address / Co-ordinates	Status of Monitoring Locations / Rationale for Recommended Replacement	
Air	A1(a)	No.68 Ho Pui Village	The original location of EM&A Manuals A1 has permanently been abandoned. No access can be acquired in the vicinity of A1. Taken into consideration that Ho Pui Village is one of the most important sensitive receivers near KT-13 without monitoring, the most fronting house, No. 68 Ho Pui Village, is therefore recommended as the replacement location A1(a).	
	A2	No.1 Ma On Kong Village	Original location of the EM&A Manual; access granted.	
Noise	N1(a)	168-169 Kam Ho Road, Ma On Kong Village,	Original location of N1 identified in the EM&A Manual was relocated to proposed area as recommended by IEC.	
	N2(a)	No. 68 Ho Pui Village,	The original location of EM&A Manuals N2 has permanently been abandoned. No access can be acquired in the vicinity of N2. Taken into consideration that Ho Pui Village is one of the most important sensitive receivers near KT-13 without monitoring, the most fronting house, No. 68 Ho Pui Village, is therefore recommended as the replacement location N2(a).	
	N3	No.1 Ma On Kong Village	Original locations of the EM&A Manual; access granted.	
Water	W1	E824539 / N830283	Original locations of the EM&A Manual; access resolved.	

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Environmental	Monitoring	Identified Address / Status of Monitoring Locations / Rationale			
Issues	Location	Co-ordinates	for Recommended Replacement		
	W2	E824693 / N830258	Original locations of the EM&A Manual;		
			access resolved.		
	W3(a)	E824833 / N830374	The W3 is proposed to be relocated about 55		
m down s		m down stream to W3(a) for safety reason as			
			there is no any discharge point observed		
			between W3 and the proposed W3(a).		
	W4	E824936 / N830618	Original locations of the EM&A Manual;		
			access resolved.		
	W5	E825008 / N830812	Original locations of the EM&A Manual;		
			access resolved.		
	W6	E825100 / N830987	Original locations of the EM&A Manual;		
		access resolved.			
Ecology		nthly monitoring along the boundary of the works area to confirm that there are no			
		adverse impacts on habitats outside the site in particular the Conservation Area (CA) zone			
		nd Ho Pui Egretry.			
		Photographic records at six-month intervals;			
	Monthly monitoring of all bird numbers including wetland species and species identified as being of conservation importance;				
			ch to August. The Ma On Kong egretry is also		
		veyed to provide reference information on the breeding egrets nearby; and ht line surveys twice per month during April to June.			
Waste		striction site and document			
Management					
Cultural	Ma On	Refer to EM&A Manual (KT13) Figure 7.1.			
Heritage	Kong				
Landscape &		to EIA Section 10			
Visual					

2.3 MONITORING FREQUENCY, DURATION AND SCHEDULE

2.3.1 Monitoring Frequency and Duration

Environmental monitoring is conducted upon commencement of the construction activities and throughout the whole construction period to detect and minimize any adverse environmental impacts generated from the construction activities of the Project. The monitoring frequency and duration for air quality, construction noise, water quality, ecology and other parameters are summarized below.

Air Quality

<u>Frequency</u>: Once every 6 days for 24-hour TSP and three times every 6 days for 1-hour TSP, when the highest construction dust impacts are anticipated.

Duration: Throughout the construction period

Construction Noise

- <u>Frequency</u>: Measurement of Leq(30min): Once a week during 0700-1900 hours on normal weekdays. If the construction work is undertake at restricted hours, the frequency of noise monitoring will be conducted in accordance with the requirements under the related Construction Noise Permit issued by EPD as follows:
 - 3 consecutive Leq(5min) at restrict hour from 1700 2300 hours;
 - 3 consecutive Leq(5min) for restrict hour from 2300 0700 hours next day;
 - 3 consecutive Leq(5min) for Sunday or public holiday from 0700 1900 hours;

<u>Duration</u>: Throughout the construction period



Water Quality

<u>Frequency</u>: Three times a week with at least 36 hour intervals between any two consecutive monitoring events

As the water columns in the stream water within KT13 is generally less than 3m, measurement is performed at the mid-depths of the monitoring locations. In case the water columns are deeper than 6m, measurement shall be carried out at three water depths, namely, 1m below water surface, mid-depth, and 1m above river bed. If the water depths are between 3 to 6m, the mid-depth measurement is omitted.

<u>Depths</u>: As the water columns in the stream water within KT13 is generally less than 3m, measurement is performed at the mid-depths of the monitoring locations. In case the water columns are deeper than 6m, measurement shall be carried out at three water depths, namely, 1m below water surface, mid-depth, and 1m above river bed. If the water depths are between 3 to 6m, the mid-depth measurement is omitted.

<u>Duration</u>: Throughout the construction period.

<u>Ecology</u>

The Ecology Monitoring is required in accordance with the EM&A Manual.

- Parameters: Vegetation, All bird species including wetland birds, Ho Pui and Ma On Hong Egretries and Flight line survey
- Frequency:Vegetation Impact monitoring monthly;
Photographic records/checks against baseline records– six monthly
Wetland Bird survey Monthly of half-day survey;
Ma On Kong egretry Monthly between March to August; and
Ho Pui egretry Bi-weekly between March and August;
Flight line Survey Month during the period from April to June
Duration:Duration:Throughout the whole construction period

Waste Management Audit

<u>Frequency</u>: Once per month <u>Duration</u>: Throughout the construction period.

Cultural Heritage

Scope:	Condition survey and settlement monitoring of a Qing Dynasty Grave.
Frequency:	Condition survey - Bi-monthly
	Settlement monitoring - Bi-weekly
Duration:	Throughout the construction phase period. (When construction work entered the 100m of the cultural heritage site)

Landscape & Visual

<u>Frequency</u>: Bi-weekly <u>Duration</u>: Throughout the construction phase period.

2.3.2 Environmental Monitoring Schedule

The monitoring schedules for the Reporting Period and next month are presented in *Appendix D.*



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2.4 MONITORING EQUIPMENT AND PROCEDURE

The monitoring equipment and procedures are summarized below. Calibration certificates of the equipment and the related laboratories are presented in *Appendix E.*

2.4.1 Weather Conditions during the Reporting Period

All meteorological information is extracted from the Hong Kong Observatory (Lau Fau Shan Station). The meteorological data include wind direction, wind speed, humidity, rainfall, air pressure and temperature etc., that are generally required for evaluating the environmental impact arising from the construction activities. The meteorological data are presented in *Appendix D*.

2.4.2 Air Quality

Monitoring Equipment

A list of air quality monitoring equipment is shown below.

Table 2-4-2 Air Quality Monitoring Equipment

Equipment	Model	Serial Number
24-hour TSP		
High Volume Air Sampler	Grasby Anderson GMWS 2310 HVS	-
Calibration Kit	TISCH Model TE-5025A	1612
1-hour TSP		
Portable Dust Meter	TSI DustTrak Model 8520	21060 / 23080 / 23079

Monitoring Procedure

<u>1-hour TSP</u>

The 1-hour TSP measurement follows manufacturer's Operation and Service Manual, using a 1-hour TSP monitor brand named TSI Dust Track Aerosol Monitor Model 8520 or Sibata LD-3 Laser Dust Meter, which is a portable, battery-operated laser photometer to record the real time 1-hour TSP based on 90⁰ light scattering. The 1-hour TSP monitor consists of the following:

- (a) A pump to draw sample aerosol through the optic chamber where TSP is measured;
- (b) A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
- (c) A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

The 1-hour TSP meter to be used will be within the valid period, calibrated by the manufacturer prior to purchasing. Zero response of the instrument will be checked before and after each monitoring event.

24-hour TSP

The equipment used for 24-hour TSP measurement is the high volume air sampling system (hereinafter 'HVS') brand named Thermo Andersen, Model GS2310 TSP. The HVS complies with US EPA Code of Federal Regulation, Appendix B to Part 50. The HVS consists of the following:

- (a) An anodized aluminum shelter;
- (b) A 8"x10" stainless steel filter holder;
- (c) A blower motor assembly;
- (d) A continuous flow/pressure recorder;
- (e) A motor speed-voltage control/elapsed time indicator;
- (f) A 6-day mechanical timer, and
- (g) A power supply of 220v/50 Hz

The HVS is operated and calibrated on a regular basis following the manufacturer's instruction using the NIST-certified standard calibrator brand named TISCH Calibration Kit Model TE-5025A. Regular HVS operation and maintenance as well as filter paper installation and collection is performed by the ET's competent technicians, whereas



laboratory analyses are conducted in a local HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (herein after 'ALS'). The 24-hour TSP filters of the 24-hour TSP will be kept in ALS for six months prior to disposal.

All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper are recorded in details.

2.4.3 Construction Noise

Monitoring Equipment

A list of construction noise monitoring equipment is shown below.

Table 2-4-3 Construction Noise Monitoring Equipment

Equipment	Model	Serial Number
Integrating Sound Level Meter	Cesva SC-20c/	T212509
Integrating Cound Eeven Meter	Bruel & Kjaer 2238	2285762 / 2285690
Calibrator	Cesva CB-5 /	030934
Calibrator	Bruel & Kjaer 4231	2292168 / 2326408
Portable Wind Speed Indicator	Testo Anemometer	-

Monitoring Procedure

Sound level meters listed above comply with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications, as recommended in Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO).

All noise measurements will be performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Leq(30 min) in six consecutive Leq(5 min) measurements will be used as the monitoring parameter for the time period between 0700-1900 hours on weekdays throughout the construction period. Leq(15min) in three consecutive Leq(5 min) measurements for other time periods (e.g. during restricted hours) will only be conducted for monitoring the construction noise during restricted hours as necessary.

The sound level meter is mounted on a tripod at a height of 1.2 m and placed at the assessment point and oriented such that the microphone is pointed to the site with the microphone facing perpendicular to the line of sight. The windshield is fitted for all measurements. Where a measurement is to be carried out at a building, the assessment point is normally at a position 1 m from the exterior of the building façade. Where a measurement is to be made for noise being received at a place other than a building, the assessment point is at a position 1.2 m above the ground in a free-field situation, i.e. at least 3.5 m away from reflective surfaces such as adjacent buildings or walls.

Immediately prior to and following each noise measurement the accuracy of the sound level meter is checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements will be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0dB. No noise measurement will be made in the present of significant fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed is checked with a portable wind speed meter capable of measuring the wind speed in m/s.

2.4.4 Water Quality

Monitoring Equipment

Monitoring Equipment for water quality is listed below.



Table 2-4-4

4 Water Quality Monitoring Equipment

Equipment	Model	Serial Number
Water Depth Detector	Eagle Sonar	-
Water Sampler	Teflon bailer / bucket	-
Thermometer & DO meter	YSI 550A	05F2063AZ
pH meter	Hanna HI98107	S411364
Turbidimeter	Hach 2100p	08070C031408
Hand Refractometer	ATAGO	289468
Sample Container	High density polythene bottles (provided by laboratory)	-
Storage Container	'Willow' 33-litter plastic cool box	-

Monitoring Procedure

Water Depth

As the water columns in the stream water within KT13 is generally less than 3 m, measurement is performed at the mid-depths of the monitoring locations. In case the water columns are deeper than 6 m, measurement shall be carried out at three water depths, namely, 1 m below water surface, mid-depth, and 1 m above river bed. If the water depths are between 3 to 6 m, the mid-depth measurement is omitted.

Water depths are determined prior to measurement and sampling, using a portable battery operated depth detector, brand named 'Eagle Sonar', if the depths exceed 1.5 meter. For the depths well below 1 meter, the depths of water columns are measured with a steel ruler with appropriate weight.

Dissolved Oxygen (DO)

A portable YSI 550A DO Meter will be used for in-situ DO measurement. The DO meter is capable of measuring DO in the range of 0 - 20 mg/L and 0 - 200 % saturation and checked against water saturated ambient air on each monitoring day prior to monitoring. Although the DO Meter automatically compensates ambient water temperature to a standard temperature of 20^oC for ease of comparison of the data under the changing reality, the temperature readings of the DO Meter will be recorded in the field data sheets. Calibration of the equipment will be performed by ALS on quarterly basis.

<u>рН</u>

A portable Extech / Hanna pH Meter will be used for in-situ pH measurement. The pH meter is capable of measuring pH in the range of 0 - 14 and readable to 0.1. Standard buffer solutions of pH 7 and pH 10 are used for calibration of the instrument before and after measurement. Quarterly calibration of the equipment will be performed by ALS.

Turbidity

A portable Hach 2100p turbidity Meter will be used for in-situ turbidity measurement. The turbidity meter is capable of measuring turbidity in the range of 0 - 1000 NTU. Calibration of the equipment will be performed by ALS on quarterly basis.

<u>Salinity</u>

A portable hand Refractometer AGATO will be used for in-situ salinity measurement. The refractometer is capable of measuring salinity in the range of 0-70ppt with accuracy \pm 1% reading. Calibration of the equipment will be performed by ALS on quarterly basis.

Suspended Solids (SS)

SS will be determined by ALS upon receipt of the water samples using the HOKLAS accredited analytical method - ALS Method EA-025.

Ammonia Nitrogen(NH₃-N)

<u>*NH*</u>₃-*N* will be examined by ALS upon receipt of the water samples using the HOKLAS accredited analytical methods - ALS Method EK-055A.

<u>Zinc(Zn)</u>



Zn will be analyzed by ALS upon receipt of the water samples using the HOKLAS accredited analytical methods - ALS Method EG-020.

Water Sampler

Water samples will be collected using a plastic sampler to prevent metal contamination. As the water depths in the stream water within KT13 are generally less than 0.5 m, a plastic bucket with a rope of appropriate length is used for water sampling. The sampler is rinsed before collection with the sample to be taken. For water depths deeper than 0.5 meter, a cleaned plastic bailer bucket will be used for sample collection.

1000 mL water sample is collected from each depth for SS determination. The samples collected are stored in a cool box maintained at 4^oC and delivered to ALS upon completion of the sampling by end of each sampling day.

Sample Container

Water samples are contained in screw-cap PE (Poly-Ethylene) bottles, which are provided and pretreated according to corresponding HOKLAS and ALS analytical requirements. Where appropriate, the sampling bottles are rinsed with the water to be contained. Water samples are then transferred from the water sampler to the sampling bottles to 95% bottle capacity to allow possible volume expansion during delivery and storage.

Sample Storage

A 'Willow' 33-litter plastic cool box packed with ice will be used to preserve the collected water samples prior to arrival at ALS. The water temperature of the cool box will be maintained at a temperature as close to 4^oC as possible without being frozen. Samples collected will be delivered to the laboratory upon collection within the maximum storage time required under the HOKLAS and ALS analytical requirements

2.4.5 Ecology

Monthly walk through survey will be conducted along the boundary of work area for KT13. Bird monitoring will be conducted in the study areas monthly for KT13. Monitoring on the Ho Pui egretry and Ma On Kong egretry will be conducted between March to August. Flight line surveys to record the feeding areas and the habitat use of breeding egrets will be conducted between April to June. Photographic record should be made at six month intervals.

Monitoring Equipment

The following equipment will be used for monitoring:-

Standard portable field survey equipment was used for ecological monitoring, including

- (a) Binoculars of 10 x 40 magnifications;
- (b) Digital camera; and
- (c) Notebook.

Study Area

The areas for the ecological monitoring programme would cover 60 m on either side of the existing channel as well as the proposed bypass culvert, as shown in Figure 6.1 of the EM&A Manual. Within these, emphasis will be given to the area around the Ho Pui and Ma On Kong egretries and habitats of at least moderate ecological value. In addition, monitoring would also be undertaken at the Ho Pui egretry and Ma On Kong egretry (The Ma On Kong egretry is outside the demarcated monitoring area but is also monitored to identify any adverse effects on the breeding egrets).

Survey Method

Monthly monitoring will be conducted by means of walk through survey, along the boundary of work area for KT13. Any adverse impacts to the habitats outside the site, in particular the Conservation Area (CA) zone and Ho Pui Egretry, will be checked and



reported.

Photographic records will be made every six months on the fixed photo record points selected during the baseline survey. The photos from the construction phase ecological monitoring will be compared with those taken during the baseline, which are used as the baseline conditions.

Bird monitoring will be conducted in the study areas monthly for KT13. Attention should be paid on wetland species and species identified as being of conservation importance, and the habitats utilized should also be recorded. Bird surveys should commence no later than 2 hours after dawn.

Monitoring on the Ho Pui egretry and Ma On Kong egretry will be conducted between March to August. The frequency would be twice per month during March to May. Depending upon the nesting conditions at Ho Pui egretry, the frequency could be reduced to monthly between June and August if no egret nest found by the end of May, or maintained at twice per month till the end of August if there are egret nests. Number of active nests, species and number of birds present and breeding stage should be recorded.

Flight line surveys to record the feeding areas and the habitat use of breeding egrets will be conducted twice per month between April to June. The number and species of flying egrets, and their landing habitats and locations should be recorded.

2.4.6 Waste Management, Cultural Heritage and Landscape & Visual

Waste Management, Cultural Heritage and Landscape & Visual monitoring is required for KT13 as stipulated in the EM&A manual [382047/E/EMA/Issue 5] *Section 5*, *Section 7* and *Section 8* accordingly.

Waste Management

During the monthly audit, ETL will pay attention to the issues relating to waste management, and check whether the Contractor has followed the relevant contract Specifications and the procedures specified under the law of HKSAR.

Cultural Heritage

Condition survey by a qualified archaeologist is required for the historical grave near Ma On Kong before and during the construction phase. The method statement of condition survey of Ma On Kong Historic Grave (KT13-02-02) was issued to EPD and endorsed on 27 July 2008, the frequency of the condition survey during the construction phase and given the open cut method would be adopted for the construction of the proposed bypass box culvert under KT13 project, subject to the result of the condition survey carried out before the construction stage, it is recommended that bi-monthly condition survey be undertaken during the construction work within 100m area from the grave.

Landscape and Visual

In accordance with the EM&A manual [382047/E/EMA/Issue5] **Section 8** landscape and visual mitigation measures are required during construction and operation phase. Site inspection will be undertaken at least once every two weeks throughout the construction period to ensure compliance with the intended aims of the proposed mitigation measures.

2.5 QUALITY ASSURANCE PROCEDURES AND DATA MANAGEMENT

2.5.1 Documentation of the Environmental Monitoring

Field data including in-situ monitoring results, weather conditions and water sampling information and observation will be recorded in corresponding Field Data Sheets, which will be signed and dated by the respective environmental technician prior to submission to the ETL for validation and endorsement at the end of the monitoring day.

2.5.2 Data Management and Analysis

All impact monitoring data will be processed by the AUES data recording and management system, which complies with in-house Quality (*ISO 9001:2000*) Management System. Monitoring results recorded in the monitoring equipment e.g. 1-hour TSP Meters and Noise Meters will be downloaded directly from the equipment at the end of the



monitoring period and input into a computerized database maintained by the ET. Laboratory results will be input directly into the computerized database and checked by personnel other than those who input the data.

2.5.3 Quality Assurance Procedures

Appropriate and standard QA/QC measures will be adopted for the environmental monitoring to ensure the scientific integrity of the data produced. Sources of error in the impact monitoring will be properly controlled with the following QA/QC procedures:

- (a) Appropriate field monitoring and sampling techniques, including monitoring equipment, storage and delivery of samples;
- (b) Well organized systematic field-data system e.g. all baseline monitoring information, field observation, results, weather conditions and water sampling information, etc. will be recorded in the field monitoring record sheets. The laboratory analysis records will be maintained by the HOKLAS following HOKLAS requirements;
- (c) HOKLAS requirements for QA/QC of all laboratory testing to ensure acceptable accuracy and reproducibility of the laboratory analysis indicated by consistent agreement between duplicate samples, validity of the analytical results by compliance with the required blanks and recovery of standard addition.

2.5.4 Records

All impact monitoring data will be clearly and systematically documented in both hardware and software format and the software copy will be available for inspection upon request. All the document and data will be kept for at lest one year after completion of the Project. Field Data Sheets used to record the impact monitoring information, field observation, results, weather conditions and water sampling information, etc., will be properly maintained and kept by the ET. The copies of laboratory analysis records from ALS will be keep by the ET throughout the at least one year after completion of the EM&A program of the Project.

2.6 REPORTING

2.6.1 General Requirements for Report Submission

General requirements for Monthly EM&A report submission as stipulated in the EIA, EP and EM&A Manual are summarized below.

Report	Submission
Monthly EM&A Report	• Within 10 working days of the end of each reporting month.
Quarterly EM&A Summary	 No specific requirement, proposed three weeks after endorsement of
Report	the 3 rd monthly EM&A report within a particular quarter.
Final EM&A Summary	 No specific requirement, proposed one month upon completion of
Report	entire EM&A program

 Table 2-6
 Requirements for Report Submission

2.6.2 Cut-Off Day of the Reporting Month

It was agreed among the ER, IEC, CRBC, ET and EPD that, in order to streamline the EM&A report submission and to cater for the occasional delay in obtaining laboratory analysis results, the cutoff day for each month is the 25th i.e. the first day of each report is the 26th of the last month and the end day, the 25th of that month.



3 MONITORING RESULTS

The environmental monitoring results will be compared against the Action and Limit Levels established based on the baseline monitoring results and statutory criteria. In case the measured data exceed the environmental quality criteria, remedial actions will be triggered according to the Event and Action Plan enclosed in *Appendix F*. The environmental monitoring results are tabulated below and the details of 24-hour TSP data and graphical plots of trends of monitored parameters at key stations over the past four Reporting Periods are presented in *Appendices G* and *H*.

- 3.1 AIR QUALITY
- 3.1.1 Action and Limit Levels

According to the Baseline Monitoring Report for KT13, the Action and Limit Levels for 24-hour and 1-hour TSP are established as follows:

Table 3-1-1	Air Quality	Action and	Limit Levels

Monitoring Station	Action Lev	/el (μg /m³)	Limit Level (µg/m³)			
	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP		
KT13(A1(a))	309	144	500	260		
KT13(A2)	307	141	500	260		

3.1.2 Results

Results of air quality monitoring at the identified locations during the Reporting Period are summarized in *Tables 3-1-3-1* and *3-1-3-2* below. Power failure at KT13-A1(a) was occurred on 18 and 24 December 2009 due to damage of technical parts by others. The monitoring team has been taking action to restore the problem.

	1	-hour TSP		24-hour TSP (μg/m³)			
Date	Start Time				Date	Results	
26-Nov-09	09:05	82	97	95	91	1-Dec-09	46
2-Dec-09	12:45	180	191	190	187	7-Dec-09	33
8-Dec-09	09:25	85	90	89	88	12-Dec-09	34
14-Dec-09	13:50	91	99	97	96	18-Dec-09	Power failure#
19-Dec-09	09:16	79	86	86	84	24-Dec-09	Power failure#
	rage nge))9 191)		Average (range)	38 (33-46)

 Table 3-1-2-1
 Summary of Air Quality Monitoring Results at KT13-A1(a)

Power failure occurred due to damage of technical parts by other.

Table 3-1-2-2 Summary of Air Quality Monitoring Results at KT13-A2

	1	-hour TSP	(µg/m³)			24-hour TSP (μg/m³)		
Date	Start Time	1 st hour	2 nd hour	3 rd hour	B rd hour Average Date			
26-Nov-09	08:50	72	80	79	77	1-Dec-09	61	
2-Dec-09	13:00	179	187	186	184	7-Dec-09	30	
8-Dec-09	08:45	79	88	87	85	12-Dec-09	18	
14-Dec-09	13:30	79	87	85	84	18-Dec-09	19	
19-Dec-09	08:55	73	86	83	81	24-Dec-09	30	
Ave	Average		1()2	Average	32		
(rar	nge)		(72-	187)		(range)	(18-61)	

3.1.3 Discussion

As shown in *Tables 3-1-2-1* and *3-1-2-2*, 1-hour TSP and 24-hour TSP results fluctuated well below the Action Level. No exceedance of Action or Limit Levels was recorded during the Reporting Period. Neither Notification of Exceedance (hereinafter 'NOE') of air quality criteria or corrective action was required. Due to the power failure of high volume sampler



at A1(a) on 18 and 24 December 2009, the two monitoring data was absent in this reporting month. We have liaised with the Contractor and it is advised that only channel excavation and construction of box culvert were conducted at Channel KT-13 in the entire December. Air pollution mitigation measures such as regular watering on haul roads and cover for the stockpile of excavated soil were provided to prevent fugitive dust generation due to construction work. As investigation figured out there were no significant changes to the condition of the construction site before and after the HVS power failure, we consider the 24-hour TSP monitoring results during HVS power failure would not have big variation in comparing with before.

- 3.2 CONSTRUCTION NOISE
- 3.2.1 Action and Limit Levels

The Action and Limit Levels for construction noise are illustrated in Table 3-2-1.

Table 3-2-1 Construction Noise Action and Limit Levels

Time Period	Action Level in dB(A)	Limit Level in dB(A)
0700-1900 hours on normal weekdays	When one documented complaint is received	> 75* dB(A)

Note: *Reduces to 70dB(A) for schools and 65dB(A) during the school examination periods.

3.2.2 Results

Results of construction noise monitoring at the identified locations N1(a), N2(a) and N3 during the Reporting Period are summarized in *Tables 3-2-2-1* to *3-2-2-3*.

The baseline monitoring for N1(a) and N2(a) was performed on the 1st floor of the bedroom of 168-169 Kam Ho Road, Ma On Kong Village and No. 68 Ho Pui Village respectively. The impact noise monitoring, however, was performed on the ground floor of the same house due to denial of access to the 1st floor. The change of noise monitoring from 1st floor to ground floor will negate the need for a 3dB(A) façade correction but will not introduce any significant difference in detection and minimization of the of construction noise impacts, or alteration of the established A/L Levels. The ET has obtained the approval from EPD with consultation with the ER and IEC.

Date	Start Time	1 st set Leq5	2 nd set Leq5	3 rd set Leq5	4 th set Leq5	5 th set Leq5	6 th set Leq5	Leq30
26-Nov-09	10:28	63.2	64.7	62.4	62.2	62.9	61.4	62.9
2-Dec-09	14:15	59.5	58.9	60.9	64.3	61.3	60.4	61.3
8-Dec-09	09:55	58.4	58.9	60.3	60.9	59.1	58.4	59.4
14-Dec-09	13:04	57.9	56.7	56.9	59.4	58.7	57.4	57.9
19-Dec-09	10:45	62.4 59.3		58.6	58.8	60.3	59.7	60.1
Limit Le	Limit Level							

Table 3-2-2-1 Summary of Construction Noise Monitoring Results – N1(a)

Table 3-2-2-2 Summary of Construction Noise Monitoring Results – N2(a)

Date	Start Time	1 st set Leq5	2 nd set Leq5	3 rd set Leq5	4 th set Leq5	5 th set Leq5	6 th set Leq5	Leq30
26-Nov-09	08:45	54.2	55.1	59.4	56.2	54.7	54.6	56.1
2-Dec-09	12:45	58.4	59.4	56.8	56.3	57.7	57.5	57.8
8-Dec-09	08:45	49.7	51.4	50.3	49.4	49.1	50.9	50.2
14-Dec-09	13:38	49.7	50.5	50.2	49.3	50.9	50.1	50.1
19-Dec-09	08:55	54.2 53.7		55.9	55.9 55.2		57.4	55.3
Limit Le	evel	-						75 dB(A)

Table 3-2-2-3 Summary of Construction Noise Monitoring Results – N3

DSD Contract No. DC/2007/17 - Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun.



Date	Start Time	1 st set Leq5	2 nd set Leq5	3 rd set Leq5	4 th set Leq5	5 th set Leq5	6 th set Leq5	Leq30	
26-Nov-09	09:25	59.4	58.6	60.4	59.1	62.3	60.7	60.3	
2-Dec-09	13:30	62.5	63.7	62.3	61.7	61.7	61.0	62.2	
8-Dec-09	09:25	57.3	56.8	56.6	60.3	59.5	58.3	58.4	
14-Dec-09	14:25	53.8	54.3	56.7	56.1	53.4	54.9	55.0	
19-Dec-09	09:35	52.7	54.2	54.4	56.1	55.0	54.2	54.6	
Limit Le	evel								

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3.2.3 Discussion

As shown in Tables 3-2-2-1, Table 3-2-2-2 and Table 3-2-2-3, all the construction noise results fluctuated well below the Limit Level. No exceedance of Limit Level or documented construction complaint was recorded during the Reporting Period. No NOE or corrective action was therefore required.

3.3 WATER QUALITY

3.3.1 Action and Limit Levels

The Action and Limit Levels for water quality are illustrated in Table 3-3-1.

Monitoring	DO (mg/L)		Turbidity (NTU)		рН		SS (mg/L)		Ammonia (μg/L)		Zinc (μg/L)	
Location	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
W1 (Upstream) Control Station	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W2 (Downstream) Impact Station	1.04	1.00	36.81	37.16	8.65	8.69	79.0	86.2	16.85	16.89	234.95	266.19
W3(a) (Upstream) Control Station	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W4 (Upstream) Control Station	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W5 (Upstream) Control Station	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W6 (Downstream) Impact Station	0.93	0.91	27.88	30.02	8.7	8.7	73.40	78.68	51.62	54.56	191.90	201.58

Table 3-3-1	Action and Limit Levels for Water Quality Monitoring
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3.3.2 Results

Water quality monitoring results measured at W1, W2, W3(a), W4, W5 and W6 during the Reporting Period are presented in tabulation and graphical plots in Appendix G.

3.3.2 Discussion

> In this Reporting Period, a total of six (6) Limit Level exceedances were registered at impact station W6 as shown in Table 3-3-2.

Table 3-3-2 Summary of Water Quality Exceedances

Location	Exceedance	DO	Turbidity	рΗ	SS	NH₄ ⁺⁻ N	Zn	Total
W6	Action Level	0	0	0	0	0	0	0
	Limit Level	0	0	0	5	0	1	6
Total	Action Level	0	0	0	0	0	0	0
Total	Limit Level	0	0	0	5	0	1	6

DO, Turbidity and NH_4^+ -N

No exceedances of Action and Limit Levels of DO, turbidity and NH₄⁺-N were recorded



during the Reporting Period. No Notifications of Environmental Quality Limit Exceedances (NOE) or corrective actions were therefore required for these parameters.

<u>рН</u>

pH fluctuated within a range from 6.3 to 8.4, which were all below the Action and Limit Levels of 8.65 and 8.69 for W2 and 8.7 for W6. Proposal for adopting the pH range of 6 to 9 in place of the existing Action and Limit Level has been approved by the ER and IEC. It is at the stage of submitting to EPD for formal approval.

Zinc and SS

According to the existing Action/Limit Levels, five (5) and one (1) Limit Level exceedances each of suspended solids and zinc were recorded during the Reporting Period as shown in *Table 3-3-2*. NOEs were issued upon confirmation of the monitoring results, and investigation was conducted upon receipt of the information of construction activities and implementation status of mitigation measures provided by CRBC. The causes of the exceedances were being investigated.

During the Reporting Period, no excavation work was being carried out at downstream near Location W6 was undertaken. Water mitigation measures such as sedimentation tanks, temporary earth bunds and sand bags had been equipped on site properly. However, during regular site inspection, influx of discharge from the nearby pig farm into the channel which resulted in increased turbidity of the water body was observed. Preliminary investigation concluded that the exceedances were likely to be due to the discharge from the pig farm. CRBC was reminded to fully implement the required water quality mitigation measures during construction under the Project, in particular when excavation and the associated channel works are undertaken and construction wastewater is generated and discharged to the Channel KT13.

- 3.4 ECOLOGY
- 3.4.1 Action and Limit Levels

The Action and Limit Levels for Construction Ecology Monitoring are shown in *Table 3-4-1* to according with the EM&A manual.

 Table 3-4-1
 Ecological Action and Limit Levels

Parameters	Action Level	Limit Level
Decrease in number of breeding egrets since previous year	>20%	> 40%

3.4.2 Results

Forty-nine (49) individuals of birds from nineteen (19) species were recorded during the survey on 12 December 2009. Among the birds recorded, seven (7) individuals of wetland dependent birds (from 2 species) were recorded.

It is stated in the EP for KT13 that the monitoring of the Ho Pui egretry shall be carried out during the period from 1st March to 31st August as specified in the EM&A Manual. If no egret nest is found at the egretry during the period from 1st March to 31st May, the Permit Holder can start the construction works within 100m of the ecological buffer area upon obtaining the Director's approval until February in the next year. If egret nests are found during the period from 1st March to 31st August, no construction shall take place within 100m of the ecological buffer area before 1st October. The monitoring during March 2009 to May 2009 did not record any nest in Ho Pui Egretry.



In addition, it is required in the EM&A manual that biweekly monitoring of the Ho Pui egretry for the period from 1st March to end of May is required. Should no egret nest be found at the Ho Pui egretry by the end of May, monitoring frequency from June to August can be downgraded to Monthly. As no egret nest was found at the Ho Pui egretry by the end of May 09, egretry survey on Ho Pui Egretry was monthly between June to August 2009. There had been no nest found at the Ho Pui egretry during these surveys. Even though no nest was recorded at Ho Pui egretry in 2008, the Action/Limit level for ecology is complied with.

Ma On Kong egretry was also surveyed between March to August 2009 to provide reference information on the breeding. No nest was found at Ma On Kong egretry neither. Flight line surveys are required between April to June and thus not needed in the present monitoring.

During the walk through survey on 12 December 2009, other than the bamboo trees which are within Ho Pui Egretry boundary as shown in the EM&A manual and had been found to be cleared by villagers during site inspection on 11 July 2009, no further adverse impacts on habitats outside the boundary of the works area including the Conservation Area and the remaining Ho Pui Egretry was found. There was also no sign of further clearance of the bamboo trees or other trees within the Ho Pui Egretry boundary. As the clearance affected only a small portion of vegetations within the boundary of the Ho Pui Egretry, which had been previously used by egrets as nesting site but there has been no egret breeding activity in this egretry for a few years (before the present monitoring programme commenced in 2008). This incident thus did not affect any egret nests or egret individuals. Therefore no exceedance on ecological monitoring criteria was caused by this incident.

Photo records of trees are scheduled in every six months and are not required in the present monitoring. Ecological impact monitoring results are presented in the **Table 3-4-2**.

Scientific Name	Common Name	Reported in the project profile	Abundance recorded in the present survey (12 December 09)	Habitat utilized
Birds			-	
Little Egret	Egretta garzetta	✓	6	Stream
Cattle Egret	Bubulcus ibis	✓		
Chinese Pond Heron	Ardeola bacchus	✓	1	Stream
Crested Serpent Eagle	Spilornis cheela	✓		
Bonelli's Eagle	Hieraaetus fasciatus	✓		
Eurasian Hobby	Falco subbuteo	✓		
White-breasted Waterhen	Amaunornis phoenicurus	✓		
Spotted Dove	Streptopelia chinensis	✓	4	Woodland, bare ground
Common Koel	Eudynamys scolopacea	√		
Greater Coucal	Centropus sinensis	√		
Little Swift	Apus affinis	✓		
White-Throated Kingfisher	Halcyon smyrnensis	✓		
Barn Swallow	Hirundo rustica	√		
Red-Whiskered Bulbul	Pycnonotus jocosus	√	5	Woodland,
Chinese Bulbul	Pycnonotus sinensis	✓	3	Woodland
Long-Tailed Shrike	Lanius schach	✓	1	Low lying grassland
Oriental Magpie Robin	Copsychus saularis	✓	3	Agricultural land, bare ground
Masked Laughingthrush	Garrulax perspicillatus	√	2	Bare ground,
Yellow-Bellied Prinia	Prinia flaviventris	✓	1	Low lyung grassland

Table 3-4-2 Summary of KT13 Ecology Impact Monitoring Bird Survey

Z:\Jobs\2008\TCS00408 (DC-2007-17)\600\EM&A\Impact\KT13\Monthly\15th Monthly Report - December09\R1341v2.doc Action-United Environmental Services and Consulting



Scientific Name	Common Name	Reported in the project profile	Abundance recorded in the present survey (12 December 09)	Habitat utilized
Common Tailorbird	Orthotomus sutorius	✓	1	Low lyging grassland
Great Tit	Parus major	√		Woodland
Japanese White-Eye	Zosterops japonicus	\checkmark	5	Woodland
White-Rumped Munia	Lonchura striata	\checkmark		
Eurasian Tree Sparrow	Passer montanus	✓	4	Agricultural land, bare ground
Black-Collared Starling	Sturnus nigricollis	✓	2	bare ground,
Common Myna	Acridotheres tristis	✓		
Crested Myna	Acridotheres cristatellus	✓	3	Agricultural land, bare ground
White Wagtail	Motacilla alba	1	4	Stream
Plain Prinia	Prinia inornata	1	1	Low lying grassland
Common Mapie	Pica pica	1	1	Bare ground
Common Blackbird	Turdus merula	1	1	Woodland
Grey Wagtail	Motacilla cinerea	1	1	Stream
Species Number		27	19	
Individual Number		NA	49	

*Wetland dependent species recorded with abundance during the baseline study with the names bolded

- 3.5 WASTE MANAGEMENT, CULTURAL HERITAGE AND LANDSCAPE & VISUAL
- 3.5.1 Waste Management

In order to comply with the waste management requirements, CRBC has been:

- (a) Assigned, since 9 Jan 2008, a Billing Account (account number 7006524) under the *Waste Disposal (Charges for Disposal of Construction Waste) Regulation;*
- (b) Issued a Discharge License No. 1U461/1 under Section 20 of the *Water Pollution Control Ordinance*;
- (c) Registered as a Chemical Waste Producer under the Waste Disposal (Chemical Waste) (General) Regulation (the Waste Producer Number assigned is WPN: 5611-531-C3124-28 dated 2 May 08); and
- (d) Granted by the Environmental Protection Department a Permit Issued under the *Dumping at Sea Ordinance* (Permit no. EP/I4D/08-095, dated 18 September 2008, permit validity period of six months from 18 September 2008 to 17 march 2009) for 18, 469 m³ sediment requiring Type 1 open sea disposal at East Sha Chau Contaminated Mud Disposal Site Pit IV b to be capped as directed by the management Team of the CEDD.
- 3.5.2 Cultural Heritage

The Action and Limit Levels for Cultural Heritage are shown in *Table 3-5-2* according to the EM&A Manual.

Action Level	Limit Level
When damage or structural instability is first detected	Signs of deterioration and structural instability continues on subsequent visits after Action Level is triggered

The historical grave KT13-02-02 was identified during EIA stage of the project. A pre-construction condition survey report was issued in **July 2008** and already agreed by AMO. The details on the report of the grave could be referred to "*Pre-construction condition survey on July 2008*".



During the Reporting Period, construction work at Channel KT13 had entered the area within 100m of the cultural heritage site (the grave) since 21 October 2009. To update the condition of the grave, supplementary information of condition survey was undertaken on 31 August 2009 (when no construction activities were carried out within 100m areas from the grave). The monitoring result of the supplementary survey would be adopted as the updated initial reading of the settlement level as agreed by ET and IEC

Under the current EM&A programme and approved monitoring methodology, the condition survey would be conducted by ERM Limited bi-monthly and the settlement monitoring will be conducted by CRBC bi-weekly. Should any exceedance was recorded in settlement monitoring, the frequency of the monitoring shall be increase to weekly. In the settlement monitoring, five settlement marker points (13GS01 to 13GS05) were established to record the coordinates and elevation of the grave in order to monitor any ground movement or settlement during the construction works.

In this reporting period, weekly settlement monitoring was taken on **28 November**, **4**, **12**, **16 and 23 December 2009** to compare with the initial readings to determine if there is any significant tilting or settlement of the grave. It is noted that two (2) Action Level exceedances were triggered on the settlement monitoring. Investigation for the cause of exceedances conducted that the measured levels fluctuated within $\pm 2mm$ regularly which indicated that the circumstances were normal. Also, construction works undertaken by others was observed within 100m of the grave (our monitoring area) and a platform for car parking was built and in used by the villager. In view of such incidence and that fact that there were no sign of structural damage of the grave, it is concluded that the exceedances were not related to the works under the project.

The Condition Survey of the Grave during construction phase will be undertaken in next reporting month and the settlement monitoring results are shown in *Table 3-5-3*.

Monitoring Point		Diff. (mm)	Level (mpd)	Diff. (mm)	Level (mpd)	Diff. (mm)	Level (mpd)	Diff. (mm)	Level (mpd)	Diff. (mm)
Date	130	GS01	130	GS02	130	GS03	130	GS04	130	GS05
31/08/09 (Initial reading)	19.222	0	19.985	0	20.644	0	19.943	0	19.211	0
28/11/09	19.223	1	19.986	1	20.643	-1	19.943	0	19.210	0
4/12/09	19.222	0	19.985	0	20.643	-1	19.943	0	19.210	-1
12/12/09	19.222	0	19.985	0	20.643	-1	19.944	1	19.211	0
16/12/09	19.222	0	19.985	0	20.643	-1	19.945	2 (action)	19.210	-1
23/12/09	19.223	1	19.986	1	20.643	-1	19.945	2 (action)	19.210	-1
Breach of Action/Limit Level		-		-		-	2 a	ction		-

Table 3-5-3	Record of Five Settlement Marker Points of the Qing Dynasty Grave
-------------	---

Note: Action level exceedance would be triggered when the settlement difference is ±2mm. Limit level exceedance would be triggered when the settlement difference is ±5mm.

3.5.3 Landscape and Visual

Landscape and visual inspections were conducted on **7 and 21 December 2009**. Current situation of the identified landscape resources remained the same as those of the baseline, except minor changes of river/stream/fish pond landscape character area at LR1, LR2.1, LR2.2, LCA1, LCA3 and LCA4 due to site clearance, soil stockpiling and preparation work within KT13. Updated landscape and visual status is presented in *Appendix J.*



- 4 NON-COMPLIANCE, COMPLAINT, NOTIFICATION OF SUMMONS, SUCCESSFUL PROSECUTION AND OTHERS
- 4.1 NON-COMPLIANCE

Exceedance of environmental quality criteria has been discussed in *Section 3.1* to *3.5.* No other non-compliance or deficiency was identified during regular site inspection and environmental audit. No associated remedial action was necessary.

4.2 ENVIRONMENTAL COMPLAINT

No written or verbal complaint was received for each environmental issue during the Reporting Period. No associated remedial action was necessary.

- 4.3 NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION No notifications of summons and successful prosecutions were recorded during the Reporting Period. No associated remedial action was necessary.
- 4.4 OTHERS
- 4.4.1 Waste Management Status

All types of waste arising from the construction work are classified into the following:

- Construction & Demolition (C&D) Material;
- Chemical Waste;
- General Refuse; and
- Excavated Soil and sediment

Waste generated, re-used, recycled and disposed of during the Reporting Period is shown in *Appendix K: Monthly Summary Waste Flow Table.* No Type I or Type II excavated soil were recorded in this Reporting Period.

4.4.2 Site Inspection and Environmental Audit

In this Reporting Period, **five** occasions of weekly environmental site inspection and audit were conducted during the Reporting Period jointly by the ER, EO and ET. No adverse environmental impacts were registered, indicating that the mitigation measures implemented were effective and sufficient for the construction activities undertaken. Minor deficiencies found in the site inspection and audit were in general rectified within the specified deadlines. Findings of the site inspection and environmental audit are summarized below.

Date	Findings / Deficiencies	Follow-Up Status
27 November 2009	The Contractor is reminded to properly collect and dispose of lunchboxes and other refuse	Recommendations based on the observation on 1 December 2009 were followed.
1 December 2009	The Contractor is reminded to maintain a good housekeeping practice.	Recommendations based on the observation on 8 December 2009 were followed.
8 December 2009	The Contractor is reminded to maintain good site tidiness.	Recommendations based on the observation on 15 December 2009 were followed.
15 December 2009	The Contractor is reminded to provide dust suppression measure to prevent air pollution	Recommendations based on the observation on 22 December 2009 were followed.
22 December 2009	The Contractor is reminded to proper implement noise mitigation measures to reduce the impact to sensitive receivers nearby	Will be followed in the next reporting month.

Table 4-4-1 Summary of Findings of Site Inspection and Environmental Audit

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4.4.3 Works to be Undertaken Next Month

Works to be undertaken next month are shown in the construction program enclosed in **Appendix B**. The construction activities undertaken in the Reporting Period including:

- Excavation of channel formation
- Construction of channel structure
- Backfilling
- Installation of type 2 railing
- Construction of Box Culvert
- Laying underground drain pipe
- Laying of Gabion Block/Granite Block
- Condition survey for historic grave (KT13-02-02)

4.4.4 Future Key Issues and Mitigation Measures for the Forth-Coming Month

As dry season had come, dust control measures to avoid dust emissions should be properly provided and maintained, as appropriate.

In addition, special attention should also be paid to construction noise, water quality, ecology and other environmental issues identified in the EM&A Manual. Mitigation measures recommended in the EIA and summarized in Mitigation Measure Implementation Schedule (EMIS) should be fully implemented.



5 CONCLUSIONS AND RECOMMENDATIONS

- i) This is the **15th** monthly EM&A report for Channel KT13, covering the construction period from **26 November 2009 to 25 December 2009** (the Reporting Period).
- ii) Monitoring results of the Reporting Period demonstrated no exceedance of environmental quality criteria for air quality, construction noise and ecology.
- iii) However, a total of six (6) Action/Limit Level exceedances of water quality criteria, due to suspended solids (SS) and zinc recorded at designated location W6 during the Reporting Period. The causes of the exceedances are still under investigation. During site inspection, influx of discharge from the nearby pig farm into the channel which resulted in increased turbidity of the water body was observed.
- iv) Landscape inspections were conducted on **7 and 21 December 2009**. No significant changes were observed for identified landscape resources and visual sensitive receivers, except for minor changes due to channel excavation, site clearance and preparation work at the identified landscape resources including LR1, LR2.1, LR2.2, LCA1, LCA3 and LCA4.
- v) No documented complaints, notifications of summons and successful prosecutions were received during the Reporting Period. No adverse environmental impacts were observed during the weekly site inspection and environmental audit of the Reporting Period, which suggested that the implemented mitigation measures for air quality, construction noise and ecology were effective. Minor deficiencies found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.
- vi) Since construction work at Channel KT13 had entered the area within 100m of the cultural heritage site (the grave), five (5) events of weekly settlement monitoring were undertaken in this reporting month. There were two (2) Action Level exceedances recorded on the settlement monitoring. Investigation for the cause of exceedances conducted that the measured levels fluctuated within ±2mm regularly which indicated that the circumstances were normal. Also, construction works undertaken by others were observed within 100m of the grave (our monitoring area) and a platform for car parking was built and in used by the villager. It is concluded that the exceedances are not related to the works under the project.
- vii) It was recommended that water quality mitigation measures stipulated in the EIA and summarized in mitigation measures implementation schedule in the EM&A Manual, including containment structure such as temporary earth bunds, sand bags, sheet pile barriers or other similar techniques, be fully implemented.
- viii) As dry season has come, dust control measures to avoid dust emissions should be properly provided and maintained, as appropriate. Special attention should also be paid to construction noise and other environmental issues identified in the EM&A Manual. Mitigation measures recommended in the EIA and summarized in Mitigation Measure Implementation Schedule should be fully implemented.
- ix) Proposal for adopting the pH range of 6 to 9 pH value in place of the existing pH Action and Limit Level has been approved by ER and IEC. Submission to EPD for formal approval is in process.

END OF TEXT

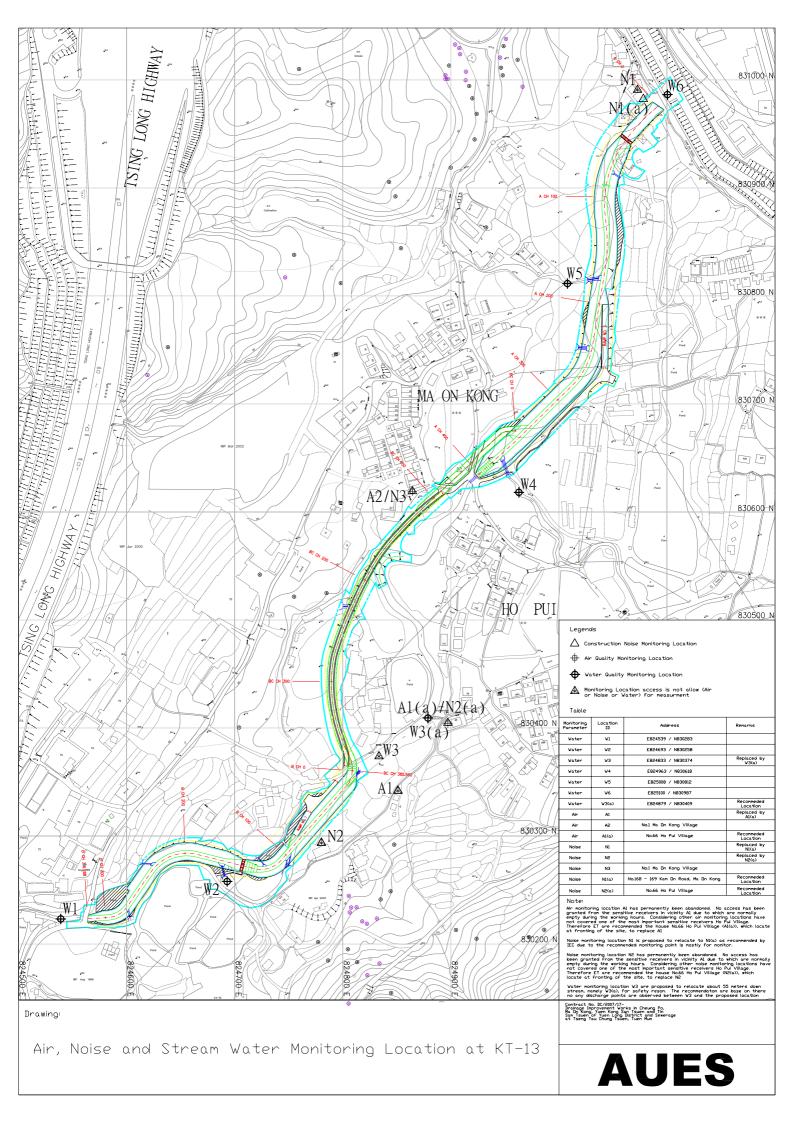


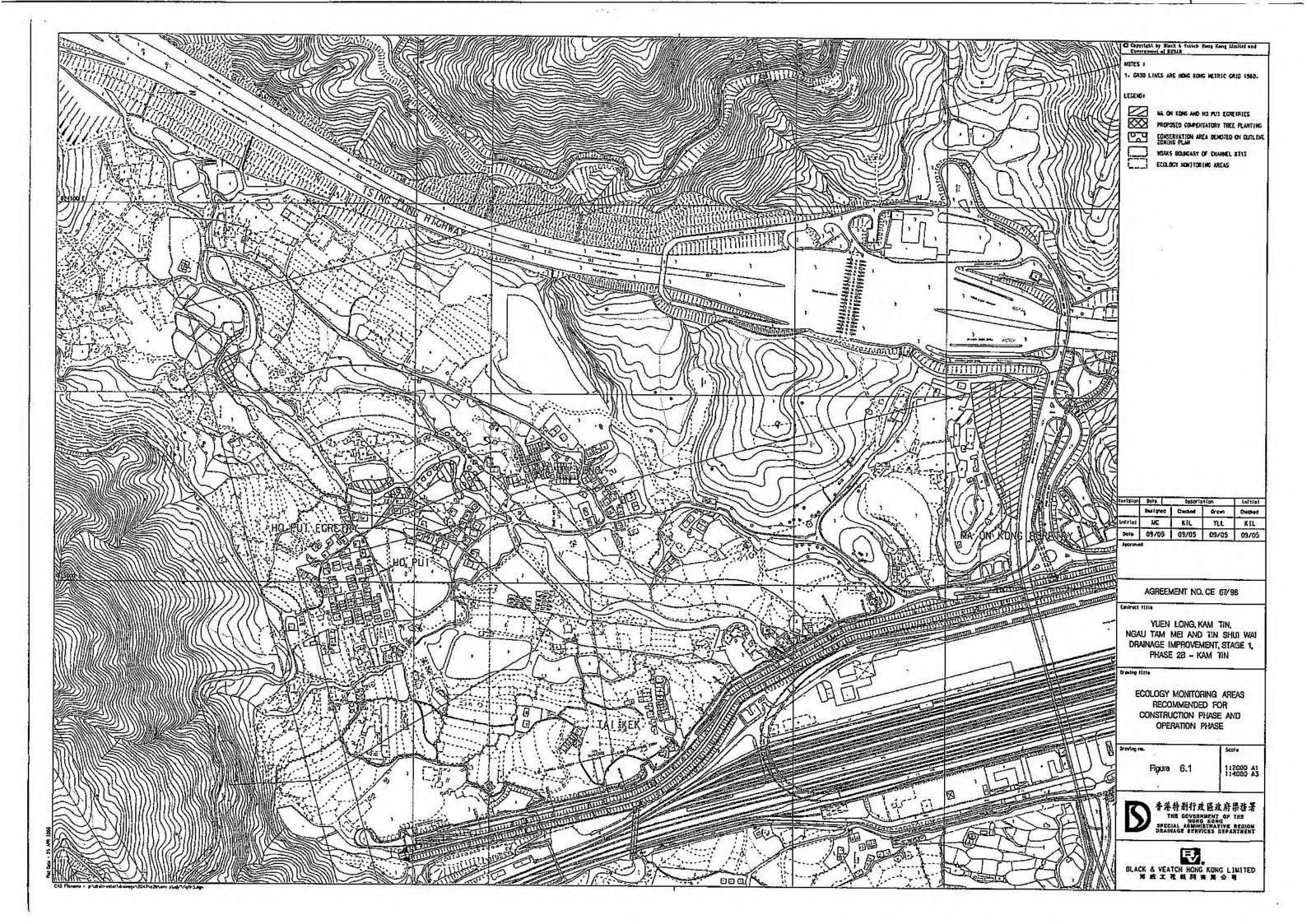
Appendix A

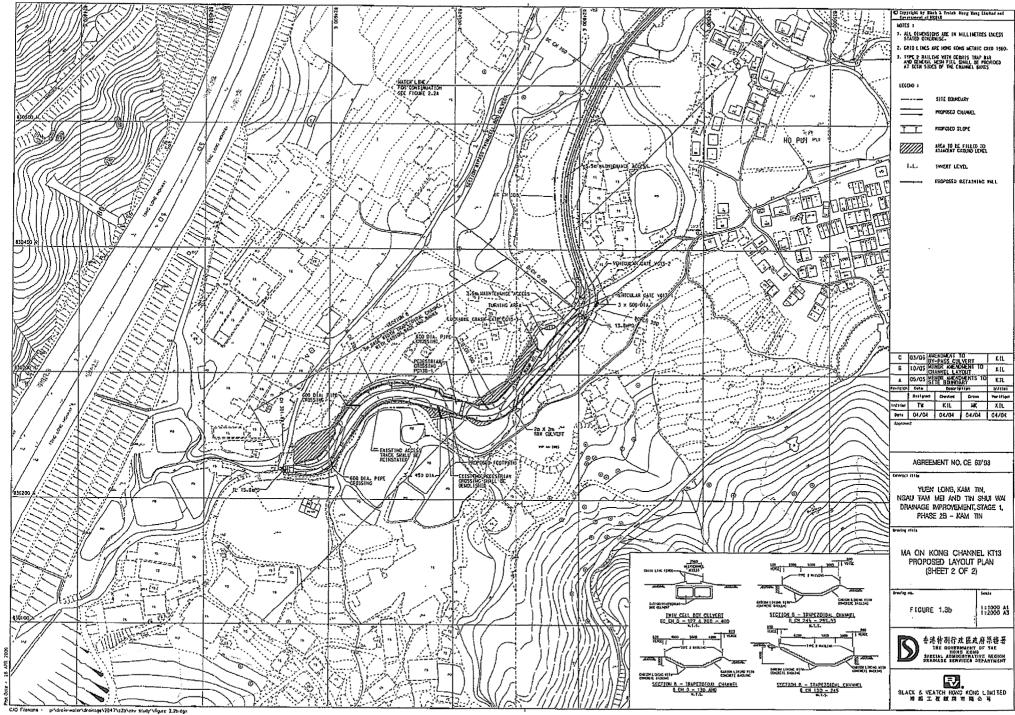
Location Plan and

Environmental Monitoring Locations

Under the Project







_____I



Appendix B

Construction Program

Action-United Environmental Services and Consulting

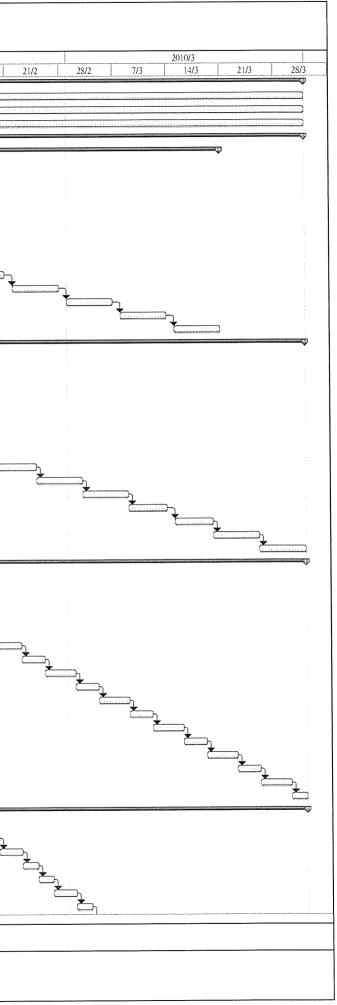
		Monthly Rolling Program							
1	Task Name	Duration	Start	Complete	29/11	6/12	2009/12	20/12	27/
5	Section II (Channel KT13)	25 days	2009/12/1	2009/12/31	29/11	0/12	.i	20/12	211.
	Regular Environmental Impact Monitoring	25 days	2009/12/1	2009/12/31	Contraction Contraction	allana an	enna ana ana ana ana ana ana ana ana ana		adista su
	Regular Tree Survey & Protection	25 days	2009/12/1	2009/12/31	Listentententen	asistasisis		ala antica a a a a a a a a a a a a a a a a a a	alalalaada
ŝ	Regular Structural Condition Survey	25 days	2009/12/1	2009/12/31	(CERTIFIC	anana ana a			
	Section A	25 days	2009/12/1	2009/12/31	\$				
	Excavation to channel formation & laying of rock fill material (A CH0.00 - A CH402.00)	25 days	2009/12/1	2009/12/31					
	Bay A19 (A CH180.00 - A CH191.00) - TG2 (E.B.)	3 days	2009/12/1	2009/12/3	(SAME)				
	Bay A20 (A CH19J.00 - A CH201.00) - TG2 (E.B.)	3 days	2009/12/4	2009/12/7	C. State	21.120			
	Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.)	3 days	2009/12/8	2009/12/10		there a			
0	Bay A22 (A CH214.00 - A CH226.00) - TG2 (E.B.)	3 days	2009/12/11	2009/12/14		1 inter	CERCERCE 4		
1	Bay A23 (A CH226.00 - A CH245.00) - TG2 (E.B.)	3 days	2009/12/15	2009/12/17	8		dimension 1		
2	Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.)	3 days	2009/12/18	2009/12/21			Č.	courses,	
3	Bay A25 (A CH258.00 - A CH271.00) - TG2 (E.B.)	3 days	2009/12/22	2009/12/24				1. Alexandre	1
4	Bay A26 (A CH271.00 - A CH283.00) - TG6 (E.B.)	4 days	2009/12/28	2009/12/31	- 4				Teachers
5	Construction of channel structure (RC2, Transition, and TG2)	25 days	2009/12/1	2009/12/31					
5	Bay A12 (A CH95.00 - A CH108.00) - TG2 (E.B.)	4 days	2009/12/1	2009/12/4	Contractor State State				
7	Bay A14 (A CH120.00 - A CH133.00) - TG2 (E.B.)	4 days	2009/12/5	2009/12/9	C.u.s	and the second			
8	Bay A16 (A CH145.00 - A CH157.00) - TG2 (E.B.)	4 days	2009/12/10	2009/12/14		(Trans	assasaly		
9	Bay A17 (A CH157.00 - A CH170.00) - TG2 (E.B.)	4 days	2009/12/15	2009/12/18	1		0.0000000		
0	Bay A18 (A CH170.00 - A CH180.00) - TG2 (E.B.)	4 days	2009/12/19	2009/12/23	1			terrain terrain	
1	Bay A19 (A CH180.00 - A CH191.00) - TG2 (E.B.)	4 days	2009/12/24	2009/12/30				Bassass.	949.249
2	Bay A20 (A CH191.00 - A CH201.00) - TG2 (E.B.)	l day	2009/12/31	2009/12/31					
3	Backfilling along the channel sides / laying underground drain pipe	12 days	2009/12/15	2009/12/30	1				
4	Bay A12 (A CH95.00 - A CH108.00) - TG2 (E.B.)	3 days	2009/12/15	2009/12/17	1		(
5	Bay A13 (A CH108.00 - A CH120.00) - TG2 (E.B.)	3 days	2009/12/18	2009/12/21	1		1	4744447	
6	Bay A14 (A CH120.00 - A CH133.00) - TG2 (E.B.)	3 days	2009/12/22	2009/12/24				(ala)atatata	1
7	Bay A15 (A CH133.00 - A CH145.00) - TG2 (E.B.)	3 days	2009/12/28	2009/12/30					10000
8	Section of Box Culvert BC13-1	25 days	2009/12/1	2009/12/31					
9	Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00)	25 days	2009/12/1	2009/12/31		_			_
0	Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00)	25 days	2009/12/1	2009/12/31	-				
1	Bay BC30 (BC CH379.00 - BC CH386.00)	4 days	2009/12/1	2009/12/4	Servin . Warning				
2	Bay BC29 (BC CH372.00 - BC CH379.00)	4 days	2009/12/5	2009/12/9		in in the second			
3	Bay BC19 (BC CH232.00 - BC CH247.00)	4 days	2009/12/10	2009/12/14					
4	Bay BC18 (BC CH217.00 - BC CH232.00)	4 days	2009/12/15	2009/12/18			Carrier 10		
5	Bay BC17 (BC CH202.00 - BC CH217.00)	4 days	2009/12/19	2009/12/23	į			anaranan b	
d.	Task Split Progres	s	Milestone •		Summary				

		Monthly Rolling Program	nme - Decembe	er 2009	
D	Task Name	Duration		Complete	2009/12
5	Bay BC16 (BC CH187.00 - BC CH202.00)		2000/12/24	2022 // 2/22	29/11 6/12 13/12 20/12
-	Bay BC15 (BC CH173.00 - BC CH187.00)	4 days	2009/12/24	2009/12/30	
-	Construction of box culvert	l day	2009/12/31	2009/12/31	
-	Bay BC21 (BC CH262.00 - BC CH276.00)	25 days	2009/12/1	2009/12/31	
	Bay BC20 (BC CH247.00 - BC CH262.00)	7 days	2009/12/1	2009/12/8	Accession of the particular of
	Bay BC29 (BC CH324.00 - BC CH386.00)	7 days	2009/12/9	2009/12/16	Concentration of the second
	Bay BC19 (BC CH232.00 - BC CH247.00)	7 days	2009/12/17	2009/12/24	(Constant of the second of th
	Backfilling the sides of channel structure & Laying of underground drain pipe	4 days	2009/12/28	2009/12/31	
	Bay BC21 (BC CH262.00 - BC CH276.00)	16 days	2009/12/9	2009/12/29	
		5 days	2009/12/9	2009/12/14	
-	Bay BC20 (BC CH247.00 - BC CH262.00)	5 days	2009/12/17	2009/12/22	(animistic)
-	Bay BC29 (BC CH372.00 - BC CH386.00) Section B	2 days	2009/12/28	2009/12/29	ELL:
-		25 days	2009/12/1	2009/12/31	-
	Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)	10 days	2009/12/1	2009/12/11	
	Bay B6 (B CH46.00 - B CH57.00) - TG3 (S.B.)	5 days	2009/12/1	2009/12/5	CREEKING 1
	Bay B5 (B CH34.00 - B CH46.00) - TG3 (S.B.)	5 days	2009/12/7	2009/12/11	Consultation (Construction)
	Backfilling along the sides of channel & laying of underground drain	3 days	2009/12/12	2009/12/15	
	Bay B6 (B CH46.00 - B CH57.00) - TG3 (S.B.)	2 days	2009/12/12	2009/12/14	(Cases)
	Bay B5 (B CH34.00 - B CH46.00) - TG3 (S.B.)	l day	2009/12/15	2009/12/15	ā
	Installation of Type 2 railing on top of channel wall	13 days	2009/12/1	2009/12/15	
	Bay B7 (B CH57.00 - B CH68.00) - TG3 (S.B.)	3 days	2009/12/1	2009/12/3	teasan) i
	Bay B6 (B CH46.00 - B CH57.00) - TG3 (S.B.)	3 days	2009/12/4	2009/12/7	(Concernent)
	Bay B5 (B CH34.00 - B CH46.00) - TG3 (S.B.)	3 days	2009/12/8	2009/12/10	(all all all all all all all all all all
-	Bay B4 (B CH24.00 - B CH34.00) - TG3 (S.B.)	3 days	2009/12/11	2009/12/14	(Saussan)
	Bay B3 (B CH14.00 - B CH24.00) - TG3 (S.B.)	l day	2009/12/15	2009/12/15	1 B
	Laying gabion block / granite block inside the channel	25 days	2009/12/1	2009/12/31	· · · ·
1	Bay B12 (B CH119.00 - B CH129.00) - TG3	5 days	2009/12/1	2009/12/5	(and a state of a stat
	Bay B11 (B CH107.00 - B CH119.00) - TG3	5 days	2009/12/7	2009/12/11	Baccontinuation
	Bay B10 (B CH94.00 - B CH107.00) - TG3	5 days	2009/12/12	2009/12/17	dimension of
	Bay B9 (B CH80.00 - B CH94.00) - TG3	5 days	2009/12/18	2009/12/23	(all and the second sec
	Bay B8 (B CH68.00 - B CH80.00) - TG3	5 days	2009/12/24	2009/12/31	
1	Section IV (Channel KT14B & 14C and Portion 8A & 8B)	25 days	2009/12/1	2009/12/31	
	Regular Environmental Impact Monitoring	25 days	2009/12/1	2009/12/31	
	Regular Tree Survey & Protection	25 days	2009/12/1	2009/12/31	
	Regular Structural Condition Survey	25 days	2009/12/1	2009/12/31	
	Task Split Pr		Milastara A		
		ogress	Milestone •	5	Summary

-		Monthly Rolling Program			1 1		د. دیکس	ULUE D		
ſ	ask Name	Duration	Start	Complete	29/11	6/12		99/12 3/12	20/12	27/
T	Channel 14B	12 days	2009/12/1	2009/12/14	-					
1	Construction of catchpit / manhole / drain pipe along the sides of the channel	12 days	2009/12/1	2009/12/14	-					
	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	4 days	2009/12/1	2009/12/4	Concentration					
1	Bay 31 (CH303.00 - CH317.00)	4 days	2009/12/5	2009/12/9		00000000				
1	Bay 32 (CH317.00 - CH326.00)	4 days	2009/12/10	2009/12/14		1000	101010101010			
	Installation of Type 2 railing on top of channel walls	9 days	2009/12/1	2009/12/10						
1	Bay 30 (CH299.00 - CH303.00) & Pedestrian Crossing PC14B-1	3 days	2009/12/1	2009/12/3	GEREERE I					
	Bay 31 (CH303.00 - CH317.00)	3 days	2009/12/4	2009/12/7	in the second	1450) 1				
1	Bay 32 (CH317.00 - CH326.00)	3 days	2009/12/8	2009/12/10		the second second				
1	Construction of 3.5m Maintenance Access	12 days	2009/12/1	2009/12/14	CHRISTIAN	initiais alabelerieri	กับ กลาง กลางกลางกลางก			
1	Channel KT14C	25 days	2009/12/1	2009/12/31						
1	Rectangular channel 2.5m(W) x 2.0m(H) Type RC-1 (CH0.00 -CH475.00)	25 days	2009/12/1	2009/12/31				_		-
	Excavation to channel formation (CH180.00 - CH475.00) & Laying rock fill material	25 days	2009/12/1	2009/12/31						
	Bay 3E (CH446.00 - CH434.00)	3 days	2009/12/1	2009/12/3	COLORA :					
1	Bay 4E (CH434.00 - CH426.00)	3 days	2009/12/4	2009/12/7	Č.	ا المتعققة				
	Bay 5E (CH426.00 - CH420.00)	3 days	2009/12/8	2009/12/10		(intratations)				
1	Bay 6E (CH420.00 - CH413.00)	3 days	2009/12/11	2009/12/14						
1	Bay 7E (CH413.00 - CH398.00)	3 days	2009/12/29	2009/12/31						1000
	Construction of channel structure (CH180.00 - CH475.00)	22 days	2009/12/4	2009/12/31				_	_	-
1	Bay 3E (CH446.00 - CH434.00)	5 days	2009/12/4	2009/12/9	(1000000	1.00000000				
1	Bay 4E (CH434.00 - CH426.00)	5 days	2009/12/10	2009/12/15		100	00000000	ř		
1	Bay 5E (CH426.00 - CH420.00)	8 days	2009/12/16	2009/12/24	1 1		1		ana	
	Bay 6E (CH420.00 - CH413.00)	4 days	2009/12/28	2009/12/31	1 1					
1	Backfilling along the sides of the channel structure & laying underground drain pipe	16 days	2009/12/10	2009/12/30	1 1	-		1		
1	Bay 3E (CH460.00 - CH448.00)	3 days	2009/12/10	2009/12/12	1	1.000	1111	1		
	Bay 4E (CH448.00 - CH435.00)	3 days	2009/12/16	2009/12/18	1		1	anana -		1.1.1.1
1	Bay 5E (CH435.00 - CH425.00)	3 days	2009/12/28	2009/12/30	1					
1	Laying gabion blocks	24 days	2009/12/1	2009/12/30			-	_		
1	Bay 19E (CH279.00 - CH267.00)	3 days	2009/12/1	2009/12/3	(FIRAD)					
1	Bay 20E (CH267.00 - CH255.00)	3 days	2009/12/4	2009/12/7	1	1000				
	Bay 21E (CH255.00 - CH243.00)	3 days	2009/12/8	2009/12/10	1	(inne)				
2	Bay 22E (CH243.00 - CH235.00)	3 days	2009/12/11	2009/12/14	1	Č	inanana)			
	Bay 23E (CH235.00 - CH222.00)	3 days	2009/12/15	2009/12/17	1			1000		
	Bay 24E (CH222.00 - CH210.00)	3 days	2009/12/18	2009/12/21				(tuntu	1990	
	Bay 25E (CH210.00 - CH199.00)	3 days	2009/12/22	2009/12/24					horses	1
	Task CHERTHANNERS Split Pro	gress	Milestone •		Summary					

		Monthly Rolling Program	mme - Decembe	er 2009	
	Fask Name	Duration	Start	Complete	2009/12
i l	Bay 26E (CH199.00 - CH187.00)	3 days	2009/12/28	2009/12/30	29/11 6/12 13/12 20/12 27/13
-	Construction of catchpit / manhole / drain pipe	25 days	2009/12/1	2009/12/31	
1	Bay 11E (CH371.00 - CH359.00)	5 days	2009/12/1	2009/12/5	Luisenting a
1	Bay 12E (CH359.00 - CH347.00)	5 days	2009/12/7	2009/12/11	Taxana a
1	Bay 13E (CH347.00 - CH336.00)	5 days	2009/12/12	2009/12/17	discussion (
1	Bay 14E (CH336.00 - CH324.00)	5 days	2009/12/18	2009/12/23	
1	Bay 15E-1 (CH324.00 - CH318.00)	5 days	2009/12/24	2009/12/31	Častanta
1					
	Section V	25 days	2009/12/1	2009/12/31	
1	Preservation and protection of tree for Section I, II, III and IV	25 days	2009/12/1	2009/12/31	
1					
1	Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)	25 days	2009/12/1	2009/12/31	-
1	Structural Survey and Monitoring	25 days	2009/12/1	2009/12/31	
	Construction of Manhole, Timber Box and Trench Excavation	25 days	2009/12/1	2009/12/31	
1					
	Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)	25 days	2009/12/1	2009/12/31	
	Structural Survey and Monitoring	25 days	2009/12/1	2009/12/31	
	Statistical Safety and Monitoring				
_	Construction of Manhole, Timber Box and Trench Excavation	25 days	2009/12/1	2009/12/31	
2 3					

isk Name	Duration	Start	Complete	Provide a construction of the construction of		2010/1			2010/2
				27/12	3/1 10/1	17/1	24/1	31/1 7	7/2 14/2
tion II (Channel KT13)		2010/1/2	2010/3/31	•					
egular Environmental Impact Monitoring			2010/3/31 2010/3/31		****			101224200000000000000000000000000000000	
gular Tree Survey & Protection gular Structural Condition Survey		2010/1/2 2010/1/2	2010/3/31						
tion A		2010/1/2	2010/3/31	Ţ,					
tion to channel formation & laying of rock fill material (A CH0.00 - A CH402.00)		2010/1/2	2010/3/20	Q =					
Bay A9 (A CH59.00 - A CH71.00) - TG2 (E.B.)	4 days	2010/1/2	2010/1/6	G	J				
Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	4 days	2010/1/7	2010/1/11		۲				
Bay A27 (A CH283.00 - A CH295.00) - TG6 (E.B.)	4 days	2010/1/12	2010/1/15		<u>*</u>	⊐_			
Bay A28 (A CH295.00 - A CH308.00) - TG6 (E.B.)	4 days	2010/1/16	2010/1/20			Č			
Bay A29 (A CH308.00 - A CH320.00) - TG6 (E.B.)	4 days	2010/1/21	2010/1/25						
Bay A30 (A CH320.00 - A CH332.00) - TG6 (E.B.)	4 days	2010/1/26	2010/1/29						
Bay A31 (A CH332.00 - A CH343.00) - TG6 (E.B.)	4 days	2010/1/30	2010/2/3				C		<u> </u>
Bay A32 (A CH343.00 - A CH355.00) - TG6 (E.B.) & (W.B)	6 days	2010/2/4	2010/2/10					<u></u>	
Bay A33 (A CH355.00 - A CH363.00) - TG6 (E.B.) & (W.B)	6 days	2010/2/11	2010/2/20						()
Bay A34 (A CH363.00 - A CH380.00) - TG6 (E.B.) & (W.B) Bay A35 (A CH380.00 - A CH385.00) - TG6 (E.B.) & (W.B)	6 days	2010/2/22 2010/3/1	2010/2/27 2010/3/6	all and a second s					
Bay A35 (A CH385.00 - A CH385.00) - 1 Go (E.B.) & (W.B) Bay A36 (A CH385.00 - A CH392.00) - Transition	6 days 6 days	2010/3/1 2010/3/8	2010/3/6						
Bay A30 (A CH392.00 - A CH392.00) - Transition Bay A37 (A CH392.00 - A CH402.00) - Transition	6 days	2010/3/15	2010/3/20						
nstruction of channel structure (RC2, Transition, and TG2)	a second of the second s		2010/3/20		۰.			: 	
Bay A9 (A CH59.00 - A CH71.00) - TG2 (E.B.)	4 days	2010/1/2	2010/1/6						
Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	4 days	2010/1/2	2010/1/11		t				
Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.)	5 days	2010/1/12	2010/1/16		Č				
Bay A22 (A CH214.00 - A CH226.00) - TG2 (E.B.)	5 days	2010/1/18	2010/1/22				L		
Bay A23 (A CH226.00 - A CH245.00) - TG2 (E.B.)	5 days	2010/1/23	2010/1/28			Ċ			
Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.)	5 days	2010/1/29	2010/2/3				¢.	The second se	
Bay A25 (A CH258.00 - A CH271.00) - TG2 (E.B.)	5 days	2010/2/4	2010/2/9					Ciminia	}
Bay A26 (A CH271.00 - A CH283.00) - TG6 (E.B.)	5 days	2010/2/10	2010/2/18						
Bay A27 (A CH283.00 - A CH295.00) - TG6 (E.B.)	5 days	2010/2/19	2010/2/24	-					L
Bay A28 (A CH295.00 - A CH308.00) - TG6 (E.B.)	5 days	2010/2/25	2010/3/2						
Bay A29 (A CH308.00 - A CH320.00) - TG6 (E.B.)	5 days	2010/3/3	2010/3/8						
A30 (A CH320.00 - A CH332.00) - TG6 (E.B.) A31 (A CH332.00 - A CH343.00) - TG6 (E.B.)	5 days	2010/3/9	2010/3/13 2010/3/19				1		
ay A31 (A CH352.00 - A CH353.00) - 1G0 (E.B.) ay A32 (A CH343.00 - A CH355.00) - TG6 (E.B.) & (W.B)	5 days 5 days	2010/3/15 2010/3/20	2010/3/19						
Bay A33 (A CH355.00 - A CH363.00) - TG6 (E.B.) & (W.B)	$\frac{5 \text{ days}}{5 \text{ days}}$	2010/3/20	2010/3/23						
illing along the channel sides / laying underground drain pipe	50 days		2010/3/31 2010/3/31						
Bay A9 (A CH59.00 - A CH71.00) - TG2 (E.B.)	3 days	2010/1/29	2010/3/31				Č		
Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	3 days	2010/2/2	2010/2/4	-				t h	
Bay A14 (A CH120.00 - A CH133.00) - TG2 (E.B.)	3 days	2010/2/5	2010/2/8					<u>حمد المحمد محمد محمد محمد محمد محمد محمد محمد</u>	L
Bay A15 (A CH133.00 - A CH145.00) - TG2 (E.B.)	3 days	2010/2/9	2010/2/11	-				Č	<u></u>
Bay A16 (A CH145.00 - A CH157.00) - TG2 (E.B.)	3 days	2010/2/12	2010/2/18						<u> </u>
Bay A17 (A CH157.00 - A CH170.00) - TG2 (E.B.)	3 days	2010/2/19	2010/2/22						
Bay A18 (A CH170.00 - A CH180.00) - TG2 (E.B.)	3 days	2010/2/23	2010/2/25						
Bay A19 (A CH180.00 - A CH191.00) - TG2 (E.B.)	3 days	2010/2/26	2010/3/1						
Bay A20 (A CH191.00 - A CH201.00) - TG2 (E.B.)	3 days	2010/3/2	2010/3/4	-				4 - -	
Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.)	3 days	2010/3/5	2010/3/8						
Bay A22 (A CH214.00 - A CH226.00) - TG2 (E.B.)	3 days	2010/3/9	2010/3/11	-					
Bay A23 (A CH226.00 - A CH245.00) - TG2 (E.B.)	3 days	2010/3/12	2010/3/15	-					
Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.)	3 days	2010/3/16	2010/3/18					-	
Bay A25 (A CH258.00 - A CH271.00) - TG2 (E.B.) Bay A26 (A CH271.00 - A CH282.00) TG6 (F.B.)	3 days	2010/3/19	2010/3/22						
Bay A26 (A CH271.00 - A CH283.00) - TG6 (E.B.) Bay A27 (A CH283.00 - A CH295.00) - TG6 (E.B.)	3 days 3 days	2010/3/23 2010/3/26	2010/3/25 2010/3/29	-					
Bay A27 (A CH255.00 - A CH295.00) - 1 Go (E.B.) Bay A28 (A CH295.00 - A CH308.00) - 1 Go (E.B.)	2 days	2010/3/20	2010/3/29						
tallation of Type 2 railing		2010/3/30	2010/3/31 2010/3/31						
Bay A9 (A CH59.00 - A CH71.00) - TG2 (E.B.)	2 days	2010/2/12	2010/2/17						<u> </u>
Bay A11 (A CH83.00 - A CH95.00) - TG2 (E.B.)	2 days 2 days	2010/2/12	2010/2/19	-					*
Bay A12 (A CH95.00 - A CH108.00) - TG2 (E.B.)	2 days	2010/2/20	2010/2/22						5
Bay A13 (A CH108.00 - A CH120.00) - TG2 (E.B.)	2 days	2010/2/23	2010/2/24						
Bay A14 (A CH120.00 - A CH133.00) - TG2 (E.B.)	2 days	2010/2/25	2010/2/26						
Bay A15 (A CH133.00 - A CH145.00) - TG2 (E.B.)	2 days	2010/2/27	2010/3/1						
Bay A16 (A CH145.00 - A CH157.00) - TG2 (E.B.)	2 days	2010/3/2	2010/3/3						
Task Split Progress		Milestone 4	>	Summary	¢Q				



| Bay A17 (A CH157:00 - A CH170:00) - TG2 (E.B.) 3 d Bay A18 (A CH170:00 - A CH180:00) - TG2 (E.B.) 3 d Bay A19 (A CH180:00 - A CH210:00) - TG2 (E.B.) 3 d Bay A20 (A CH210:00 - A CH210:00) - TG2 (E.B.) 3 d Bay A21 (A CH201:00 - A CH226:00) - TG2 (E.B.) 3 d Bay A22 (A CH214:00 - A CH226:00) - TG2 (E.B.) 3 d Bay A23 (A CH226:00 - A CH245:00) - TG2 (E.B.) 3 d Bay A24 (A CH245:00 - A CH258:00) - TG2 (E.B.) 3 d Bay A24 (A CH245:00 - A CH258:00) - TG2 (E.B.) 3 d Bay A24 (A CH245:00 - A CH258:00) - TG2 (W.B.) 6 d Bay A10 (A CH71:00) - TG2 (W.B.) 6 d Bay A10 (A CH71:00 - A CH3:00) - TG2 (W.B.) 6 d Bay A11 (A CH83:00 - A CH19:00) - TG2 (W.B.) 6 d Bay A11 (A CH18:00 - A CH13:00) - TG2 (W.B.) 6 d Bay A14 (A CH12:00 - A CH13:00) - TG2 (W.B.) 6 d Bay A14 (A CH12:00 - A CH13:00) - TG2 (W.B.) 6 d Bay A16 (A CH14:00 - A CH13:00) - TG2 (W.B.) 6 d Bay A16 (A CH15:00 - A CH17:00) - TG2 (W.B.) 6 d Bay A16 (A CH15:00 - A CH17:00) - TG2 (W.B.) 6 d Bay A16 (A CH18:00 - A CH3:00) - Trasition 4 d | ys 2010/3, ys 2010/1, ys 2010/1, ys 2010/1, ys 2010/1, ys 2010/2, ys 2010/2, ys 2010/2, ys 2010/3, ys 2010/3, ys 2010/2, ys 2010/3, ys 2010/2, ys 2010/3, ys 2010/3, ys 2010/3, ys 2010/3, ys 2010/2, ys 2010/2, ys 2010/2, ys 2010/2, ys 2010/2, ys 2010/3, ys 2010/2, ys 2010/2, </th <th>Complete 2010/3/6 2010/3/10 1 2010/3/10 1 2010/3/10 1 2010/3/10 5 2010/3/13 5 2010/3/20 2 2010/3/20 2 2010/3/20 2 2010/3/20 2 2010/3/20 2 2010/3/20 2 2010/3/20 2 2010/3/20 2 2010/3/21 9 2010/3/31 5 2010/2/4 2 2010/2/2 3 2010/3/1 2 2010/3/15 6 2010/3/2 3 2010/3/15 6 2010/3/31 8 2010/3/31 8 2010/3/31 2 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3</th> <th></th>

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| Bay A18 (A CH170.00 - A CH180.00) - TG2 (E.B.) 3d Bay A20 (A CH191.00 - A CH201.00) - TG2 (E.B.) 3d Bay A21 (A CH201.00 - A CH201.00) - TG2 (E.B.) 3d Bay A21 (A CH201.00 - A CH226.00) - TG2 (E.B.) 3d Bay A21 (A CH21.00 - A CH256.00) - TG2 (E.B.) 3d Bay A22 (A CH21.600 - A CH256.00) - TG2 (E.B.) 3d Bay A24 (A CH25.00 - A CH256.00) - TG2 (E.B.) 3d Bay A24 (A CH26.00 - A CH256.00) - TG2 (E.B.) 3d Bay A24 (A CH26.00 - A CH256.00) - TG2 (W.B.) 6d Bay A21 (A CH50.00 - A CH9.00) - RC2 6d Bay A21 (A CH50.00 - A CH19.00) - TC2 (W.B.) 6d Bay A11 (A CH50.00 - A CH19.00) - TC2 (W.B.) 6d Bay A11 (A CH50.00 - A CH19.00) - TC2 (W.B.) 6d Bay A11 (A CH50.00 - A CH19.00) - TC2 (W.B.) 6d Bay A11 (A CH50.00 - A CH19.00) - TG2 (W.B.) 6d Bay A14 (A CH10.00 - A CH13.00) - TG2 (W.B.) 6d Bay A15 (A CH13.00 - A CH13.00) - TG2 (W.B.) 6d Bay A16 (A CH14.00 - A CH13.00) - TG2 (W.B.) 6d Bay A16 (A CH14.00 - A CH34.00) - TC3 (W.B.) 6d Bay A16 (A CH15.00 - A CH13.00) - TC3 (W.B.) 6d Bay A16 (A CH14.00 - A CH34.00) - Transition 4d | ys 2010/3. ys 2010/1. ys 2010/1. ys 2010/1. ys 2010/1. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/3. ys 2010/3. ys 2010/2. ys 2010/3. ys 2010/2. ys 2010/3. ys 2010/3. ys 2010/3. ys 2010/3. ys 2010/3. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/3. ys 2010/3. ys 2010/3. </th <th>2010/3/10 1 2010/3/13 5 2010/3/17 8 2010/3/20 2 2010/3/20 2 2010/3/21 5 2010/3/27 9 2010/3/27 9 2010/3/27 9 2010/3/27 9 2010/3/31 5 2010/3/31 5 2010/2/4 2 2010/2/4 2 2010/2/2 3 2010/3/1 2 2010/3/1 2 2010/3/2 3 2010/3/2 3 2010/3/2 3 2010/3/1 8 2010/2/2 3 2010/3/2 3 2010/3/3 2 2010/3/1 8 2010/3/2 3 2010/3/2 3 2010/3/1 2 2010/3/1 2 2010/3/1 2 2010/3/1 2 2010/3/1</th> <th></th>

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| Bay A18 (A CH170.00 - A CH180.00) - TG2 (E.B.) 3d Bay A20 (A CH191.00 - A CH201.00) - TG2 (E.B.) 3d Bay A21 (A CH201.00 - A CH201.00) - TG2 (E.B.) 3d Bay A21 (A CH201.00 - A CH226.00) - TG2 (E.B.) 3d Bay A21 (A CH21.00 - A CH256.00) - TG2 (E.B.) 3d Bay A22 (A CH21.600 - A CH256.00) - TG2 (E.B.) 3d Bay A24 (A CH25.00 - A CH256.00) - TG2 (E.B.) 3d Bay A24 (A CH26.00 - A CH256.00) - TG2 (E.B.) 3d Bay A24 (A CH26.00 - A CH256.00) - TG2 (W.B.) 6d Bay A21 (A CH50.00 - A CH9.00) - RC2 6d Bay A21 (A CH50.00 - A CH19.00) - TC2 (W.B.) 6d Bay A11 (A CH50.00 - A CH19.00) - TC2 (W.B.) 6d Bay A11 (A CH50.00 - A CH19.00) - TC2 (W.B.) 6d Bay A11 (A CH50.00 - A CH19.00) - TC2 (W.B.) 6d Bay A11 (A CH50.00 - A CH19.00) - TG2 (W.B.) 6d Bay A14 (A CH10.00 - A CH13.00) - TG2 (W.B.) 6d Bay A15 (A CH13.00 - A CH13.00) - TG2 (W.B.) 6d Bay A16 (A CH14.00 - A CH13.00) - TG2 (W.B.) 6d Bay A16 (A CH14.00 - A CH34.00) - TC3 (W.B.) 6d Bay A16 (A CH15.00 - A CH13.00) - TC3 (W.B.) 6d Bay A16 (A CH14.00 - A CH34.00) - Transition 4d | ys 2010/3. ys 2010/1. ys 2010/1. ys 2010/1. ys 2010/1. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/3. ys 2010/3. ys 2010/2. ys 2010/3. ys 2010/2. ys 2010/3. ys 2010/3. ys 2010/3. ys 2010/3. ys 2010/3. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/3. ys 2010/3. ys 2010/3. </th <th>2010/3/10 1 2010/3/13 5 2010/3/17 8 2010/3/20 2 2010/3/20 2 2010/3/21 5 2010/3/27 9 2010/3/27 9 2010/3/27 9 2010/3/27 9 2010/3/31 5 2010/3/31 5 2010/2/4 2 2010/2/4 2 2010/2/2 3 2010/3/1 2 2010/3/1 2 2010/3/2 3 2010/3/2 3 2010/3/2 3 2010/3/1 8 2010/2/2 3 2010/3/2 3 2010/3/3 2 2010/3/1 8 2010/3/2 3 2010/3/2 3 2010/3/1 2 2010/3/1 2 2010/3/1 2 2010/3/1 2 2010/3/1</th> <th></th>

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| Bay A19 (A CH180.00 - A CH191.00) - TG2 (E.B.) 3d Bay A20 (A CH191.00 - A CH210.00) - TG2 (E.B.) 3d Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.) 3d Bay A22 (A CH214.00 - A CH225.00) - TG2 (E.B.) 3d Bay A23 (A CH26.00 - A CH255.00) - TG2 (E.B.) 3d Bay A24 (A CH245.00 - A CH255.00) - TG2 (E.B.) 3d Laying gabion block / granite block inside the channel 62 Bay A2 (A CH05.00 - A CH18.00) - RC2 6d Bay A2 (A CH05.00 - A CH19.00) - RC2 6d Bay A9 (A CH59.00 - A CH19.00) - TG2 (W.B.) 6d Bay A9 (A CH59.00 - A CH19.00) - TG2 (W.B.) 6d Bay A10 (A CH90.00 - A CH19.00) - TG2 (W.B.) 6d Bay A11 (A CH83.00 - A CH19.00) - TG2 (W.B.) 6d Bay A12 (A CH95.00 - A CH19.00) - TG2 (W.B.) 6d Bay A14 (A CH12.00 - A CH19.00) - TG2 (W.B.) 6d Bay A15 (A CH19.00 - A CH19.00) - TG2 (W.B.) 6d Bay A16 (A CH14.00 - A CH19.00) - TG2 (W.B.) 6d Bay A16 (A CH14.00 - A CH19.00) - TG2 (W.B.) 6d Bay A16 (A CH14.00 - A CH19.00) - TG2 (W.B.) 6d Bay A16 (A CH14.00 - A CH19.00) - TG2 (W.B.) 6d Bay A16 (A CH14.00 - A CH14.00) - TG2 (W.B.) 6d | ys 2010/3. ys 2010/1. ys 2010/1. ys 2010/1. ys 2010/1. ys 2010/1. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/3. ys 2010/3. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/3. ys 2010/3. ys 2010/3. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/2. ys 2010/3. ys 2010/3. ys 2010/3. </td <td>1 2010/3/13 5 2010/3/17 8 2010/3/20 2 2010/3/20 2 2010/3/21 5 2010/3/27 9 2010/3/27 9 2010/3/27 9 2010/3/31 5 2010/3/31 5 2010/3/31 5 2010/2/4 2 2010/2/2 3 2010/3/1 2 2010/3/1 2 2010/3/2 3 2010/3/2 3 2010/3/15 6 2010/3/2 3 2010/3/2 3 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/12 3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 <t< td=""><td></td></t<></td>

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| Bay A20 (A CH191.00 - A CH201.00) - TG2 (E.B.) 3d Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.) 3d Bay A22 (A CH214.00 - A CH245.00) - TG2 (E.B.) 3d Bay A22 (A CH226.00 - A CH245.00) - TG2 (E.B.) 3d Bay A22 (A CH245.00 - A CH245.00) - TG2 (E.B.) 3d Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.) 3d Bay A24 (A CH245.00 - A CH258.00) - TG2 (W.B.) 6d Bay A1 (A CH00.00 - A CH10.00) - RC2 6d Bay A1 (A CH93.00 - A CH171.00) - TG2 (W.B.) 6d Bay A10 (A CH71.00 - A CH33.00) - TG2 (W.B.) 6d Bay A11 (A CH195.00 - A CH120.00) - TG2 (W.B.) 6d Bay A13 (A CH105.00 - A CH130.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH130.00) - TG2 (W.B.) 6d Bay A15 (A CH133.00 - A CH170.00) - TG2 (W.B.) 6d Bay A15 (A CH135.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH120.00 - A CH137.00) - TG2 (W.B.) 6d Bay A16 (A CH140.00 - A CH137.00) - TG2 (W.B.) 6d Bay A16 (A CH140.00 - A CH137.00) - TG2 (W.B.) 6d Bay A16 (A CH140.00 - A CH137.00) - TG2 (W.B.) 6d Bay A16 (A CH140.00 - A CH340.00) - Tansition 4d Bay A16 (A CH140.00 - A CH340.00) - Tansition | S 2010/3. rs 2010/1. rs 2010/1. rs 2010/1. rs 2010/1. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. <td>5 2010/3/17 8 2010/3/20 2 2010/3/20 2 2010/3/20 2 2010/3/27 9 2010/3/27 9 2010/3/27 9 2010/3/27 9 2010/3/31 5 2010/3/31 5 2010/2/21 2 2010/2/22 3 2010/3/1 2 2010/3/15 6 2010/3/22 3 2010/3/29 0 2010/3/31 8 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/3 2010/3/3 2010/3/12 2010/3/12 3 2010/3/26 7 2010/3/31 2 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/12 2 2010/3/14</td> <td></td>

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| Bay A21 (A CH201.00 - A CH214.00) - TG2 (E.B.) 3 d Bay A22 (A CH214.00 - A CH226.00) - TG2 (E.B.) 3 d Bay A22 (A CH214.00 - A CH258.00) - TG2 (E.B.) 3 d Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.) 3 d Laying gabion block / granite block inside the channel 62 Bay A1 (A CH00.00 - A CH13.00) - RC2 6 d Bay A1 (A CH00.00 - A CH13.00) - RC2 6 d Bay A1 (A CH00.00 - A CH13.00) - TG2 (W.B.) 6 d Bay A1 (A CH33.00 - A CH13.00) - TG2 (W.B.) 6 d Bay A1 (A CH23.00 - A CH133.00) - TG2 (W.B.) 6 d Bay A12 (A CH13.00 - A CH33.00) - TG2 (W.B.) 6 d Bay A13 (A CH19.00 - A CH133.00) - TG2 (W.B.) 6 d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6 d Bay A15 (A CH13.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A15 (A CH13.00 - A CH147.00) - TG2 (W.B.) 6 d Bay A14 (A CH120.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A14 (A CH120.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A14 (A CH157.00 - A CH147.00) - TG2 (W.B.) 6 d Bay A1 (A CH157.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A1 (A CH157.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A1 (A CH157.00 - A CH145.00) - TG2 (W.B | S 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/1. rs 2010/1. rs 2010/1. rs 2010/1. rs 2010/1. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. <td>8 2010/3/20 2 2010/3/24 5 2010/3/27 9 2010/3/27 9 2010/3/31 5 2010/3/31 5 2010/3/31 5 2010/3/31 5 2010/3/31 5 2010/2/4 2 2010/2/4 2 2010/2/2 3 2010/3/1 2 2010/3/15 6 2010/3/2 3 2010/3/2 3 2010/3/15 6 2010/3/2 3 2010/3/2 3 2010/3/31 8 2010/3/3 2010/3/3 2010/3/3 2010/3/12 3 3 2010/3/2 3 2010/3/3 2 2010/3/3 2 2010/3/1 2 2010/3/3 2 2010/3/3 2 2010/3/1 2 2010/3/2 3</td> <td></td>

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| Bay A22 (A CH214.00 - A CH225.00) - TG2 (E.B.) 3 d Bay A23 (A CH226.00 - A CH245.00) - TG2 (E.B.) 3 d Bay A24 (A CH245.00 - A CH235.00) - TG2 (E.B.) 3 d Laying gabion block / granite block inside the channel 62 Bay A1 (A CH00.00 - A CH180.00) - RC2 6 d Bay A2 (A CH29.00 - A CH17.00) - TG2 (W.B.) 6 d Bay A1 (A CH39.00 - A CH17.00) - TG2 (W.B.) 6 d Bay A10 (A CH71.00 - A CH33.00) - TG2 (W.B.) 6 d Bay A11 (A CH35.00 - A CH120.00) - TG2 (W.B.) 6 d Bay A12 (A CH195.00 - A CH130.00) - TG2 (W.B.) 6 d Bay A13 (A CH108.00 - A CH137.00) - TG2 (W.B.) 6 d Bay A14 (A CH109.00 - A CH137.00) - TG2 (W.B.) 6 d Bay A15 (A CH133.00 - A CH177.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH177.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH177.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH177.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH177.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6 d Bay A1 (A CH187.00 - A CH1 | 's 2010/3 's 2010/3 's 2010/3 's 2010/3 's 2010/1 's 2010/1 's 2010/1 's 2010/1 's 2010/1 's 2010/1 's 2010/2 's 2010/2 's 2010/3 's 2010/3 's 2010/3 's 2010/2 's 2010/2 's 2010/2 's 2010/2 's 2010/2 's 2010/3 's 2010/3 's 2010/3 's 2010/3 's 2010/1 's 2010/2 's

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| Bay A23 (A CH226.00 - A CH245.00) - TG2 (E.B.) 3d Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.) 3d Laying gabion block / granite block inside the channel 62 Bay A1 (A CH00.00 - A CH10.00) - RC2 6d Bay A2 (A CH9.00 - A CH10.00) - TG2 (W.B.) 6d Bay A1 (A CH00.00 - A CH10.00) - TG2 (W.B.) 6d Bay A1 (A CH3.00 - A CH19.00) - TG2 (W.B.) 6d Bay A1 (A CH10.00 - A CH13.00) - TG2 (W.B.) 6d Bay A1 (A CH10.00 - A CH13.00) - TG2 (W.B.) 6d Bay A12 (A CH9.500 - A CH10.000) - TG2 (W.B.) 6d Bay A13 (A CH10.00 - A CH13.00) - TG2 (W.B.) 6d Bay A14 (A CH12.000 - A CH13.00) - TG2 (W.B.) 6d Bay A15 (A CH13.00 - A CH15.00) - TG2 (W.B.) 6d Bay A15 (A CH13.00 - A CH15.00) - TG2 (W.B.) 6d Bay A16 (A CH14.500 - A CH15.00) - TG2 (W.B.) 6d Bay A17 (A CH15.00 - A CH15.00) - TG2 (W.B.) 6d Bay A3 (A CH18.00 - A CH15.00) - TG2 (W.B.) 6d Bay A4 (A CH12.00 - A CH15.00) - TG2 (W.B.) 6d Bay A4 (A CH12.00 - A CH15.00) - TG2 (W.B.) 6d Bay A5 (A CH14.00 - A CH15.00) - TG2 (W.B.) 6d Bay A5 (A CH14.00 - A CH15.00) - Trasition 4d | YS 2010/3. YS 2010/3. YS 2010/1. YS 2010/1. YS 2010/1. YS 2010/1. YS 2010/1. YS 2010/1. YS 2010/2. YS 2010/2. YS 2010/2. YS 2010/3. YS 2010/3. YS 2010/3. YS 2010/2. YS 2010/2. YS 2010/2. YS 2010/2. YS 2010/2. YS 2010/3. YS 2010/3. YS 2010/3. YS 2010/1. YS 2010/2. YS 2010/2. YS 2010/2. YS 2010/3. YS 2010/3. YS 2010/3. YS 2010/3. YS 2010/3. YS 2010/3. </td <td>5 2010/3/27 9 2010/3/31 5 2010/3/31 5 2010/3/31 5 2010/3/31 5 2010/3/31 5 2010/3/31 5 2010/2/12 2 2010/2/4 2 2010/2/22 3 2010/3/1 2 2010/3/15 6 2010/3/22 3 2010/3/29 0 2010/3/31 8 2010/2/26 7 2010/3/31 8 2010/3/31 8 2010/3/32 3 2010/3/3 2010/3/12 3 3 2010/3/3 2010/3/12 3 3 2010/3/26 27 2010/3/31 2 2010/3/31 2 2010/3/31 2 2010/3/31 2 2010/2/27 2010/2/8 2010/2/19 20 2010/2/2 2010</td> <td></td>

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| Bay A24 (A CH245.00 - A CH258.00) - TG2 (E.B.) 3 d Laying gabion block / granite block inside the channel 62 Bay A1 (A CH00.00 - A CH90.00) - RC2 6 d Bay A2 (A CH09.00 - A CH18.00) - RC2 6 d Bay A1 (A CH00.00 - A CH18.00) - RC2 (W.B.) 6 d Bay A10 (A CH71.00 - A CH183.00) - TG2 (W.B.) 6 d Bay A11 (A CH35.00 - A CH195.00) - TG2 (W.B.) 6 d Bay A12 (A CH05.00 - A CH130.00) - TG2 (W.B.) 6 d Bay A13 (A CH108.00 - A CH130.00) - TG2 (W.B.) 6 d Bay A14 (A CH120.00 - A CH130.00) - TG2 (W.B.) 6 d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A16 (A CH140.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A3 (A CH18.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A4 (A CH26.00) - RC2 4 d Bay A5 (A CH18.00 - A CH40.00) - Transition 4 d Bay A4 (A CH26.00) - RC12 4 d Bay A4 (A CH26.00) - RC14.00) & Transition 4 d Bay A4 (A CH21.00 - A CH41.00) - Transition 4 d | S 2010/3 ays 2010/1 rs 2010/1 rs 2010/1 rs 2010/1 rs 2010/1 rs 2010/1 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/2 rs 2010/2 rs 2010/3 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/3 rs 2010/2 rs

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| Laying gabion block / granite block inside the channel 62 Bay A1 (A CH00.00 - A CH18.00) - RC2 6d Bay A2 (A CH09.00 - A CH18.00) - RC2 6d Bay A1 (A CH71.00 - A CH18.300) - TC2 (W.B.) 6d Bay A10 (A CH71.00 - A CH18.300) - TC2 (W.B.) 6d Bay A11 (A CH71.00 - A CH12.000) - TC2 (W.B.) 6d Bay A12 (A CH05.00 - A CH10.800) - TC2 (W.B.) 6d Bay A12 (A CH05.00 - A CH10.800) - TC2 (W.B.) 6d Bay A12 (A CH19.00 - A CH12.000) - TC2 (W.B.) 6d Bay A14 (A CH12.000 - A CH15.00) - TC2 (W.B.) 6d Bay A16 (A CH145.00 - A CH15.00) - TC2 (W.B.) 6d Bay A17 (A CH15.00 - A CH15.00) - TC2 (W.B.) 6d Bay A17 (A CH15.00 - A CH12.00) - TC2 (W.B.) 6d Bay A17 (A CH14.00 - A CH12.00) - TC3 (W.B.) 6d Bay A3 (A CH18.00 - A CH12.00) - TC3 (W.B.) 6d Bay A4 (A CH26.00 - A CH13.00) - Transition 4d Bay A5 (A CH14.00 - A CH14.00) - Transition 4d Bay A5 (A CH14.00 - A CH51.00) - Transition 4d Bay A8 (A CH51.00 - A CH53.00) - TC3 4d Bay A9 (A CH59.00 - A CH30.00) - TC3 4c Bay A10 (A CH71.00 - A | ays 2010/1 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/2 /s 2010/3 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s <td>5 2010/3/31 5 2010/1/21 2 2010/1/28 9 2010/2/4 2 2010/2/11 2 2010/2/22 3 2010/3/1 2 2010/3/1 2 2010/3/1 2 2010/3/22 3 2010/3/23 0 2010/3/15 6 2010/3/29 0 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/14 2 2010/3/11 2 2010/1/19 2 2010/2/19 2 2010/2/19 2 2010/3/16 7<td></td></td>

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| Bay A1 (A CH00.00 - A CH09.00) - RC2 6d Bay A2 (A CH09.00 - A CH18.00) - RC2 6d Bay A9 (A CH59.00 - A CH18.00) - TG2 (W.B.) 6d Bay A10 (A CH71.00 - A CH95.00) - TG2 (W.B.) 6d Bay A11 (A CH30.00 - A CH108.00) - TG2 (W.B.) 6d Bay A12 (A CH95.00 - A CH12.00) - TG2 (W.B.) 6d Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH146.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH146.00 - A CH170.00) - TG2 (W.B.) 6d Bay A1 (A CH15.00 - A CH170.00) - TG2 (W.B.) 6d Bay A3 (A CH18.00 - A CH14.00) - Transition 4d Bay A5 (A CH34.00 - A CH14.00) - Transition 4d Bay A5 (A CH34.00 - A CH44.00) + CP2 4d Bay A6 (A CH41.00 - A CH36.00) - TG2 4d Bay A9 (A CH51.00 - A CH30.00) - TG2 4d Bay A9 (A CH51.00 - A CH36.00) - TG2 4d Bay A11 (A CH38.00 - A CH30.00) - TG2 4d Bay A11 (A CH38.00 - | Ys 2010/1. Ys 2010/1. Ys 2010/1. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/1. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. </td <td>5 2010/1/21 2 2010/1/28 9 2010/2/4 2 2010/2/11 2 2010/2/22 3 2010/3/1 2 2010/3/1 2 2010/3/1 2 2010/3/22 3 2010/3/22 3 2010/3/29 0 2010/3/31 8 2010/2/26 7 2010/3/3 2 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/19 2 2010/2/19 2 2010/3/16 7</td> <td></td>

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| Bay A2 (A CH09.00 - A CH18.00) - RC2 6 d Bay A0 (A CH59.00 - A CH71.00) - TG2 (W.B.) 6 d Bay A10 (A CH71.00 - A CH33.00) - TG2 (W.B.) 6 d Bay A11 (A CH53.00 - A CH108.00) - TG2 (W.B.) 6 d Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.) 6 d Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6 d Bay A14 (A CH108.00 - A CH130.00) - TG2 (W.B.) 6 d Bay A15 (A CH133.00 - A CH135.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH175.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH15.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A3 (A CH18.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH15.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A3 (A CH18.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A4 (A CH16.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A4 (A CH18.00 - A CH170.00) - TG2 4 d Bay A5 (A CH41.00 - A CH30.00) - Transition 4 d Bay A5 (A CH41.00 - A CH30.00) - Transition 4 d Bay A6 (A CH41.00 - A CH51.00) - TG2 4 d Bay A10 (A CH71.00 - A CH53.00) - TG2 4 d Bay A11 (A CH33.00 - A CH53.00) - TG2 4 d | Ys 2010/1. Ys 2010/1. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/1. Ys 2010/2. Ys 2010/2. Ys 2010/2. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. Ys 2010/3. <tr <="" td=""><td>2 2010/1/28 9 2010/2/4 2010/2/11 2010/2/11 2 2010/2/22 3 2010/3/1 2010/3/1 2010/3/1 2010/3/15 2010/3/22 3 2010/3/29 0 2010/3/31 8 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/12 2010/3/3 3 2010/3/12 3 2010/3/12 3 2010/3/3 2010/3/12 2010/3/31 2 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 3 2010/3/12 2 2010/3/14 2 2010/1/27 2010/2/8 2010/2/19 2010/2/19 2010/3/16 7 2010/3/24</td><td></td></tr> <tr><td>Bay A9 (A CH59.00 - A CH71.00) - TG2 (W.B.) 6d Bay A10 (A CH71.00 - A CH33.00) - TG2 (W.B.) 6d Bay A11 (A CH30.00 - A CH35.00) - TG2 (W.B.) 6d Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.) 6d Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6d Bay A15 (A CH133.00 - A CH157.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A4 (A CH26.00 - A CH34.00) - TC3 (W.B.) 6d Bay A4 (A CH26.00 - A CH41.00) - Transition 4d Bay A4 (A CH26.00 - A CH41.00) - Transition 4d Bay A5 (A CH34.00 - A CH41.00) - Transition 4d Bay A5 (A CH31.00 - A CH41.00) - Transition 4d Bay A6 (A CH11.00 - A CH41.00) - TG2 4d Bay A7 (A CH44.00 - A CH30.00) - TG2 4d Bay A11 (A CH31.00 - A CH30.00) - TG2 4d Bay A11 (A CH32.00 - A CH30.00) - TG2 4d Bay R11 (A CH21.00 - A CH30.00) - TG2 4d Bay R1</td><td>ss 2010/1. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/1. rs 2010/2. rs 2010/3. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. <!--</td--><td>9 2010/2/4 2010/2/11 2010/2/11 2 2010/2/12 3 2010/3/1 2010/3/1 2010/3/1 2010/3/15 2010/3/22 3 2010/3/29 0 2010/3/29 0 2010/3/11 8 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/12 2010/3/3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/24</td><td></td></td></tr> <tr><td>Bay A10 (A CH71.00 - A CH33.00) - TG2 (W.B.) 6 d Bay A11 (A CH33.00 - A CH95.00) - TG2 (W.B.) 6 d Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.) 6 d Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6 d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6 d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A15 (A CH135.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A1 (A CH16.00 - A CH140.00) - Transition 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH44.00) - Transition 4 d Bay A6 (A CH41.00 - A CH51.00) - Transition 4 d Bay A9 (A CH59.00 - A CH30.00) - TG2 4 d Bay A9 (A CH59.00 - A CH30.00) - TG2 4 d Bay A11 (A CH30.00 - A CH30.00) - TG2 4 d Bay A11 (A CH30.00 - A CH30.00) - TG2 4 d Bay A11 (A CH30.00 - A CH30.00) - TG2 4 d Bay A11 (A CH33.00 - A CH30.00) - TG2 4 d Bay RT1 (A CH33.00 - A CH30.00) 7 d Ba</td><td>ys 2010/2 rs 2010/2 rs 2010/2 rs 2010/3 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/1 rs 2010/1 rs 2010/2 rs 2010/3 rs 2010/2 rs 2010/2 rs 2010/3 rs</td><td>2010/2/11 2
2010/2/22 3 2010/3/1 2010/3/1 2010/3/1 2010/3/15 2010/3/15 6 2010/3/22 3 2010/3/29 0 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/31 9 2010/3/3 2010/3/3 2010/3/3 2010/3/12 3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/24</td><td></td></tr> <tr><td>Bay A11 (A CH83.00 - A CH95.00) - TG2 (W.B.) 6d Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.) 6d Bay A13 (A CH108.00 - A CH133.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Construction of catchpit / manhole / drain pige along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4d Bay A4 (A CH26.00 - A CH34.00) - Transition 4d Bay A5 (A CH41.00 - A CH41.00) - Transition 4d Bay A7 (A CH44.00 - A CH51.00) - Transition 4d Bay A10 (A CH71.00 - A CH51.00) - Transition 4d Bay A10 (A CH71.00 - A CH95.00) - TG2 4d Bay A10 (A CH71.00 - A CH95.00) - TG2 4d Bay A11 (A CH83.00 - A CH95.00) - TG2 4d Bay A11 (A CH83.00 - A CH95.00) - TG2 4d Bay A11 (A CH83.00 - A CH95.00) TG2 4d Bay A11 (A CH83.00 - A CH95.00) TG2 4d Bay A11 (A CH83.00 - A CH95.00) TG2 4d Bay A11 (A CH83.00 - A CH32.00) 7d</td><td>S 2010/2 YS 2010/2 YS 2010/3 YS 2010/2 YS 2010/2 YS 2010/2 YS 2010/3 YS 2010/3 YS 2010/3 YS 2010/3 YS 2010/1 YS 2010/2 YS 2010/3 YS 2010/2 YS 2010/2 YS 2010/2 YS 2010/2 YS 2010/3 YS</td><td>2 2010/2/22 3 2010/3/1 2010/3/1 2010/3/1 6 2010/3/15 6 2010/3/15 6 2010/3/22 3 2010/3/29 0 2010/3/11 8 2010/3/29 0 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 3 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/24</td><td></td></tr> <tr><td>Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.) 6d Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A14 (A CH18.00 - A CH170.00) - TG2 (W.B.) 6d Bay A14 (A CH18.00 - A CH140.00) - TG2 (W.B.) 6d Bay A14 (A CH18.00 - A CH140.00) - TG2 (W.B.) 6d Bay A4 (A CH26.00 - A CH34.00) - TC32 (W.B.) 6d Bay A4 (A CH26.00 - A CH34.00) - Transition 4d Bay A5 (A CH34.00 - A CH44.00) - Transition 4d Bay A6 (A CH41.00 - A CH44.00) - Transition 4d Bay A7 (A CH44.00 - A CH45.00) - TG2 4d Bay A9 (A CH59.00 - A CH70.00) - TG2 4d Bay A9 (A CH59.00 - A CH170.00) - TG2 4d Bay A11 (A CH271.00 - A CH283.00) TG2 Bay R11 (A CH271.00 - A CH283.00) TG2 Bay R17 (A CH280.00 - A CH320.00) Td2 Bay R17 (A CH280.00 - A CH332.00) Td2 Bay R17 (A CH320.00 - A CH33</td><td>S 2010/2 /rs 2010/3 /rs 2010/2 /rs 2010/2 /rs 2010/2 /rs 2010/3 /rs 2010/1 /rs 2010/2 /rs 2010/2 /rs 2010/2 /rs 2010/2 /rs 2010/2 /rs 2010/3 /rs 2010/3 /rs 2010/3 /rs 2010/3 /rs 2010/3 /rs 2010/3 /rs 2010/3 <td>3 2010/3/1 2010/3/1 2010/3/1 2010/3/15 2010/3/15 6 2010/3/22 3 2010/3/15 6 2010/3/22 3 2010/3/11 8 2010/3/31 8 2010/2/22 3 2010/3/31 8 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/24</td><td></td></td></tr> <tr><td>Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH18.00 - A CH26.00) - RC2 4d Bay A1 (A CH26.00 - A CH34.00) - Transition 4d Bay A5 (A CH34.00 - A CH34.00) - Transition 4d Bay A6 (A CH41.00 - A CH31.00) - Transition 4d Bay A1 (A CH59.00 - A CH59.00) - Transition 4d Bay A1 (A CH59.00 - A CH71.00) - TG2 4d Bay A10 (A CH71.00 - A CH33.00) - TG2 4d Bay A11 (A CH59.00 - A CH71.00) - TG2 4d Bay A11 (A CH59.00 - A CH283.00) 7d Bay RT1 (A CH28.00 - A CH32.00) - TG2 4d Bay RT2 (A CH28.3.00 - A CH32.00) 7d Bay RT4 (A CH308.00 - A CH32.00) 7d Bay RT3 (A CH29.00 - A CH32.00) 7d Bay RT4 (A CH308.00 - A CH332.00) 7d Bay RT5 (A CH33.00 - A CH332.00) 7d <td>//s 2010/3 //s 2010/2 //s 2010/2 //s 2010/2 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/1 //s 2010/1 //s 2010/2 //s 2010/3 //s 2010/1 //s 2010/1 //s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 <tr< td=""><td>2010/3/8 2010/3/15 6 2010/3/15 6 2010/3/22 3 2010/3/29 0 2010/3/11 8 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/12 3 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/16 7 2010/3/24</td><td></td></tr<></td></td></tr> <tr><td>Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6 d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00) - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 2 d Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A7 (A CH44.00 - A CH41.00) - Transition 4 d Bay A7 (A CH44.00 - A CH41.00) - Transition 4 d Bay A8 (A CH51.00 - A CH51.00) - Transition 4 d Bay A9 (A CH59.00 - A CH71.00) - TG2 4 d Bay A9 (A CH59.00 - A CH71.00) - TG2 4 d Bay A10 (A CH71.00 - A CH283.00) 7 d Bay R11 (A CH83.00 - A CH295.00) - TG2 4 d Bay R12 (A CH283.00 - A CH328.00) 7 d Bay R12 (A CH283.00 - A CH283.00) 7 d Bay
R13 (A CH295.00 - A CH328.00) 7 d Bay R13 (A CH320.00 - A CH328.00) 7 d Bay R14 (A CH332.00 - A CH328.00) 7 d Bay R13 (A CH330.00 - A CH320.00) 7 d Bay R14 (A CH332.00 - A CH320.00)<!--</td--><td>//s 2010/3 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3</td><td>2010/3/15 6 2010/3/12 3 2010/3/29 0 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/31 9 2010/3/3 2010/3/3 2010/3/3 2010/3/12 3 3 2010/3/12 3 2010/3/12 3 2010/3/22 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/2/19 2 2010/3/16 7 2010/3/24</td><td></td></td></tr> <tr><td>Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 2 d Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 4 d Bay A7 (A CH44.00 - A CH45.00) - Transition 4 d Bay A7 (A CH44.00 - A CH51.00) - Transition 4 d Bay A9 (A CH51.00 - A CH59.00) - Transition 4 d Bay A9 (A CH51.00 - A CH59.00) - TG2 4 d Bay A11 (A CH83.00 - A CH95.00) - TG2 4 d Bay A11 (A CH83.00 - A CH95.00) - TG2 4 d Bay RT1 (A CH271.00 - A CH283.00) 7 d Bay RT2 (A CH283.00 - A CH395.00) 7 d Bay RT2 (A CH283.00 - A CH392.00) 7 d Bay RT4 (A CH38.00 - A CH320.00) 7 d Bay RT4 (A CH38.00 - A CH320.00) 7 d Bay RT4 (A CH332.00 - A CH332.00) 7 d Bay RT5 (A CH33.00 - A CH332.00) 7 d Bay RT4 (A CH332.00 - A CH332.00</td><td>//s 2010/3 //s 2010/3 //s 2010/3 //s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s<</td><td>6 2010/3/22 3 2010/3/29 0 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/3 9 2010/3/3 2010/3/3 2010/3/3 2010/3/12 3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 3 2010/3/12 2 2010/3/14 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/16 7 2010/3/24</td><td></td></tr> <tr><td>Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 2 d Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A6 (A CH41.00 - A CH41.00) - Transition 4 d Bay A6 (A CH41.00 - A CH51.00) - Transition 4 d Bay A7 (A CH44.00 - A CH51.00) - Transition 4 d Bay A9 (A CH51.00 - A CH59.00) - Transition 4 d Bay A9 (A CH71.00 - A CH95.00) - TG2 4 d Bay A10 (A CH71.00 - A CH95.00) - TG2 4 d Bay A11 (A CH271.00 - A CH283.00) 7 d Bay RT1 (A CH271.00 - A CH295.00) - TG2 4 d Bay RT2 (A CH283.00 - A CH295.00) 7 d Bay RT2 (A CH283.00 - A CH308.00) 7 d Bay RT4 (A CH308.00 - A CH320.00) 7 d Bay RT5 (A CH32.00 - A CH332.00) 7 d Bay RT6 (A CH332.00 - A CH330.00) 7 d Bay RT6 (A CH332.00 - A CH360.00) 7 d Bay RT6 (A CH332.00 - A CH360.00) 7 d Bay RT7 (A CH344.00 - A CH360.00) 6</td><td>rs 2010/3 rs 2010/3 rs 2010/2 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/1 rs 2010/1 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/3 rs</td><td>3 2010/3/29 0 2010/3/31 8 2010/3/31 8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/3 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/2/19 2 2010/3/16 7 2010/3/24</td><td></td></tr> <tr><td>Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 2 d Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 4 d Bay A6 (A CH41.00 - A CH44.00) - Transition 4 d Bay A7 (A CH44.00 - A CH51.00) - Transition 4 d Bay A8 (A CH51.00 - A CH59.00) - Transition 4 d Bay A9 (A CH59.00 - A CH71.00) - TG2 4 d Bay A10 (A CH71.00 - A CH83.00) - TG2 4 d Bay A11 (A CH23.00 - A CH95.00) - TG2 4 d Bay R11 (A CH271.00 - A CH283.00) 7 d Bay R12 (A CH28.00) 7 d Bay R13 (A CH295.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH32.00) 7 d Bay R15 (A CH332.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R16 (A CH332.00 - A CH30.00) 7 d</td><td>/s 2010/3 ays 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s<td>0 2010/3/31 8 2010/3/31 8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/3 2010/3/3 2010/3/3 2010/3/3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 4 2010/3/12 5 2010/3/14 6 2010/1/19 10 2010/2/18 10 2010/2/19 10 2010/2/19 10 2010/2/19 10 2010/3/18 10 2010/3/18 10 2010/3/16 7 2010/3/24</td><td></td></td></tr> <tr><td>Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 40 Bay A4 (A CH26.00 - A CH34.00) - Transition 40 Bay A5 (A CH34.00 - A CH41.00) - Transition 40 Bay A5 (A CH34.00 - A CH41.00) - Transition 40 Bay A6 (A CH41.00 - A CH41.00)
- Transition 40 Bay A7 (A CH44.00 - A CH51.00) - Transition 40 Bay A7 (A CH44.00 - A CH51.00) - Transition 40 Bay A8 (A CH51.00 - A CH51.00) - Transition 40 Bay A9 (A CH59.00 - A CH71.00) - TG2 40 Bay A11 (A CH31.00 - A CH33.00) - TG2 40 Bay A11 (A CH30.0 - A CH95.00) - TG2 40 Bay RT1 (A CH32.00) - A CH93.00) 70 Bay RT1 (A CH23.00) - A CH33.00) 70 Bay RT2 (A CH283.00 - A CH32.00) 70 Bay RT3 (A CH32.00) - A CH32.00) 70 Bay RT5 (A CH32.00 - A CH32.00) 70 Bay RT5 (A CH32.00 - A CH33.00) 70 Bay RT5 (A CH32.00 - A CH32.00) 70 Bay RT5 (A CH32.00 - A CH33.00) 70 Bay RT5 (A CH32.00 - A CH34.00) 70 Bay RT7 (A CH34.00 - A CH34.00) 70 Bay RT7 (A CH34.00</td><td>ays 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3</td><td>8 2010/3/31 8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/3 2010/3/4 2010/3/12 3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/26 7 2010/3/31 12 2010/3/31 2 2010/1/19 20 2010/2/8 20 2010/2/19 20 2010/2/19 20 2010/3/16 7 2010/3/24</td><td></td></tr> <tr><td>Bay A3 (A CH18.00 - A CH26.00) - RC2 4 c Bay A4 (A CH26.00 - A CH34.00) - Transition 4 c Bay A5 (A CH34.00 - A CH41.00) - Transition 4 c Bay A5 (A CH34.00 - A CH41.00) - Transition 4 c Bay A6 (A CH41.00 - A CH41.00) - Transition 4 c Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A9 (A CH51.00 - A CH51.00) - Transition 4 c Bay A9 (A CH51.00 - A CH71.00) - TG2 4 c Bay A10 (A CH71.00 - A CH33.00) - TG2 4 c Bay A11 (A CH33.00 - A CH95.00) - TG2 4 c Bay RT1 (A CH271.00 - A CH283.00) 7 c Bay RT2 (A CH283.00 - A CH32.00) 7 c Bay RT3 (A CH295.00 - A CH385.00 7 c Bay RT3 (A CH32.00 - A CH32.00) 7 c Bay RT4 (A CH308.00 - A CH32.00) 7 c Bay RT5 (A CH33.00 - A CH33.00) 7 c Bay RT5 (A CH33.00 - A CH33.00) 7 c Bay RT4 (A CH308.00 - A CH38.00) 7 c Bay RT4 (A CH308.00 - A CH38.00) 7 c Bay RT5 (A CH33.00 - A CH38.00) 7 c Bay RT6 (A CH33.00 - A CH38.00) 6 c Section of Box culvert BCI3-1<td>ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3</td><td>8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/22 3 2010/3/26 7 2010/3/31 2 2010/1/19 20 2010/1/27 2010/2/8 2010/2/19 20 2010/2/19 20 2010/3/16 7 2010/3/24</td><td></td></td></tr> <tr><td>Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) & Pedestrian Crossing 4 d Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 4 d Bay A7 (A CH44.00 - A CH51.00) - Transition 4 d Bay A8 (A CH51.00 - A CH59.00) - Transition 4 d Bay A9 (A CH59.00 - A CH71.00) - TG2 4 d Bay A10 (A CH71.00 - A CH83.00) - TG2 4 d Bay A11 (A CH83.00 - A CH95.00) - TG2 4 d Bay RT1 (A CH271.00 - A CH283.00) 7 d Bay RT2 (A CH283.00 - A CH295.00) 7 d Bay RT3 (A CH295.00 - A CH320.00) 7 d Bay RT4 (A CH308.00 - A CH320.00) 7 d Bay RT5 (A CH320.00 - A CH320.00) 7 d Bay RT5 (A CH332.00 - A CH320.00) 7 d Bay RT6 (A CH332.00 - A CH330.00) 7 d Bay RT5 (A CH332.00 - A CH330.00) 7 d Bay RT6 (A CH332.00 - A CH363.00) 7 d Bay RT6 (A CH332.00 - A CH363.00) 7 d Bay RT9 (A CH363.00 - A CH363.00) 7 d Bay RT9 (A CH363.00 - A CH380.00) 6 d Section of Box Culvert BC13-1 6 d Construct box cu</td><td>ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3</td><td>3 2010/2/26 7 2010/3/3 2010/3/3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/22 3 2010/3/26 7 2010/3/31 12 2010/3/31 2 2010/1/19 20 2010/2/8 20 2010/2/19 20 2010/2/27 2010/3/8 2010/3/16 7 2010/3/24</td><td></td></tr> <tr><td>Bay A5 (A CH34.00 - 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A CH44.00) & Pedestrian Crossing 4 c Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A8 (A CH51.00 - A CH59.00) - Transition 4 c Bay A9 (A CH59.00 - A CH71.00) - TG2 4 c Bay A10 (A CH71.00 - A CH83.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Bay R11 (A CH271.00 - A CH283.00) 7 c Bay RT1 (A CH271.00 - A CH283.00) 7 c Bay RT2 (A CH283.00 - A CH295.00) 7 c Bay RT3 (A CH295.00) - A CH383.00) 7 c Bay RT4 (A CH308.00 - A CH320.00) 7 c Bay RT5 (A CH320.00 - A CH332.00) 7 c Bay RT6 (A CH332.00 - A CH353.00) 7 c Bay RT7 (A CH344.00 - A CH353.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 6 c Section of Box Culvert BC13-1 46 Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00) 4 c
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A CH332.00) 7 d Bay RT6 (A CH332.00 - A CH330.00) 7 d Bay RT6 (A CH332.00 - A CH360.00) 7 d Bay RT6 (A CH332.00 - A CH360.00) 7 d Bay RT7 (A CH344.00 - A CH360.00) 6 | rs 2010/3 rs 2010/3 rs 2010/2 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/1 rs 2010/1 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/3 rs | 3 2010/3/29 0 2010/3/31 8 2010/3/31 8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/3 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/2/19 2 2010/3/16 7 2010/3/24 | | Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 2 d Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 4 d Bay A6 (A CH41.00 - A CH44.00) - Transition 4 d Bay A7 (A CH44.00 - A CH51.00) - Transition 4 d Bay A8 (A CH51.00 - A CH59.00) - Transition 4 d Bay A9 (A CH59.00 - A CH71.00) - TG2 4 d Bay A10 (A CH71.00 - A CH83.00) - TG2 4 d Bay A11 (A CH23.00 - A CH95.00) - TG2 4 d Bay R11 (A CH271.00 - A CH283.00) 7 d Bay R12 (A CH28.00) 7 d Bay R13 (A CH295.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH32.00) 7 d Bay R15 (A CH332.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R16 (A CH332.00 - A CH30.00) 7 d | /s 2010/3 ays 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s <td>0 2010/3/31 8 2010/3/31 8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/3 2010/3/3 2010/3/3 2010/3/3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 4 2010/3/12 5 2010/3/14 6 2010/1/19 10 2010/2/18 10 2010/2/19 10 2010/2/19 10 2010/2/19 10 2010/3/18 10 2010/3/18 10 2010/3/16 7 2010/3/24</td> <td></td> | 0 2010/3/31 8 2010/3/31 8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/3 2010/3/3 2010/3/3 2010/3/3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 4 2010/3/12 5 2010/3/14 6 2010/1/19 10 2010/2/18 10 2010/2/19 10 2010/2/19 10 2010/2/19 10 2010/3/18 10 2010/3/18 10 2010/3/16 7 2010/3/24 | | Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - 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A CH26.00) - RC2 4 c Bay A4 (A CH26.00 - A CH34.00) - Transition 4 c Bay A5 (A CH34.00 - A CH41.00) - Transition 4 c Bay A5 (A CH34.00 - A CH41.00) - Transition 4 c Bay A6 (A CH41.00 - A CH41.00) - Transition 4 c Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A9 (A CH51.00 - A CH51.00) - Transition 4 c Bay A9 (A CH51.00 - A CH71.00) - TG2 4 c Bay A10 (A CH71.00 - A CH33.00) - TG2 4 c Bay A11 (A CH33.00 - A CH95.00) - TG2 4 c Bay RT1 (A CH271.00 - A CH283.00) 7 c Bay RT2 (A CH283.00 - A CH32.00) 7 c Bay RT3 (A CH295.00 - A CH385.00 7 c Bay RT3 (A CH32.00 - A CH32.00) 7 c Bay RT4 (A CH308.00 - A CH32.00) 7 c Bay RT5 (A CH33.00 - A CH33.00) 7 c Bay RT5 (A CH33.00 - A CH33.00) 7 c Bay RT4 (A CH308.00 - A CH38.00) 7 c Bay RT4 (A CH308.00 - A CH38.00) 7 c Bay RT5 (A CH33.00 - A CH38.00) 7 c Bay
RT6 (A CH33.00 - A CH38.00) 6 c Section of Box culvert BCI3-1 <td>ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3</td> <td>8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/22 3 2010/3/26 7 2010/3/31 2 2010/1/19 20 2010/1/27 2010/2/8 2010/2/19 20 2010/2/19 20 2010/3/16 7 2010/3/24</td> <td></td> | ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 | 8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/22 3 2010/3/26 7 2010/3/31 2 2010/1/19 20 2010/1/27 2010/2/8 2010/2/19 20 2010/2/19 20 2010/3/16 7 2010/3/24 | | Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) & Pedestrian Crossing 4 d Bay A6 (A CH41.00 - 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7 2010/3/24 | | Bay RT8 (A CH353.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH380.00) 6 c Section of Box Culvert BC13-1 46 Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00) 46 Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00) 12 Bay BC15 (BC CH173.00 - BC CH187.00) 4 c Bay BC14 (BC CH158.00 - BC CH173.00) 4 c Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction of box culvert Type BC1 44 | ys 2010/3 | 7 2010/3/24 | | Bay RT9 (A CH363.00 - A CH380.00) 6 c Section of Box Culvert BC13-1 46 Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00) 46 Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00) 12 Bay BC15 (BC CH173.00 - BC CH187.00) 4 c Bay BC14 (BC CH158.00 - BC CH173.00) 4 c Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction of box culvert Type BC1 44 | | | | Section of Box Culvert BC13-1 46 Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00) 46 Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00) 12 Bay BC15 (BC CH173.00 - BC CH187.00) 40 Bay BC14 (BC CH158.00 - BC CH173.00) 40 Bay BC13 (BC CH143.00 - BC CH158.00) 40 Construction of box culvert Type BC1 44 | | | | Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00) 46 Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00) 12 Bay BC15 (BC CH173.00 - BC CH187.00) 4 c Bay BC14 (BC CH158.00 - BC CH173.00) 4 c Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction of box culvert Type BC1 44 | ays 2010/1 | | V | Excavation for box culvert formation & laying of rock fill material (BC CH0.00 - BC CH386.00) 12 Bay BC15 (BC CH173.00 - BC CH187.00) 4 c Bay BC14 (BC CH158.00 - BC CH173.00) 4 c Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction of box culvert Type BC1 4 c | ays 2010/1 | | | Bay BC15 (BC CH173.00 - BC CH187.00) 4 c Bay BC14 (BC CH158.00 - BC CH173.00) 4 c Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction of box culvert Type BC1 44 | ays 2010/1 | | | Bay BC14 (BC CH158.00 - BC CH173.00) 4 c Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction of box culvert Type BC1 44 | - The second second second second | | | Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction of box culvert Type BC1 44 | | | | Construction of box culvert Type BC1 44 | | | | | ays 2010/1 | | | DAY DUTO 1DU UTETO 10 - DU UTETO 1001 - DU UTET | a Tala a substance and an | | | Bay BC17 (BC CH201.00 - BC CH216.00) 5 c | | | | | | | | Bay BC25 (BC CH320.00 - BC CH334.00) 5 c | | | | Bay BC24 (BC CH305.00 - BC CH320.00) 5 c | | | | Bay BC16 (BC CH187.00 - BC CH201.00) 6 c | · · · · · · · · · · · · · · · · · · · | | | Bay BC15 (BC CH173.00 - BC CH187.00) 6 0 | | | | Bay BC14 (BC CH158.00 - BC CH173.00) 6 0 | | | | Bay BC13 (BC
CH143.00 - BC CH158.00) 6 d | | | | | ays 2010/2 | | | Bay BC19 (BC CH231.00 - BC CH246.00) 2 0 | | | | Bay BC18 (BC CH216.00 - BC CH231.00) 2 c | | | | Bay BC17 (BC CH201.00 - BC CH216.00) 2 (| | | | Bay BC25 (BC CH320.00 - BC CH334.00) 2 d | ys 2010/2 | | | Bay BC24 (BC CH305.00 - BC CH320.00) 2 d | ys 2010/2 | 22 2010/2/23 | | | | | | Task Split Progress | Milest | ne 🕈 | Summary | | | | | | | | |
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| Bay A9 (A CH59.00 - A CH71.00) - TG2 (W.B.) 6d Bay A10 (A CH71.00 - A CH33.00) - TG2 (W.B.) 6d Bay A11 (A CH30.00 - A CH35.00) - TG2 (W.B.) 6d Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.) 6d Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6d Bay A15 (A CH133.00 - A CH157.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A4 (A CH26.00 - A CH34.00) - TC3 (W.B.) 6d Bay A4 (A CH26.00 - A CH41.00) - Transition 4d Bay A4 (A CH26.00 - A CH41.00) - Transition 4d Bay A5 (A CH34.00 - A CH41.00) - Transition 4d Bay A5 (A CH31.00 - A CH41.00) - Transition 4d Bay A6 (A CH11.00 - A CH41.00) - TG2 4d Bay A7 (A CH44.00 - A CH30.00) - TG2 4d Bay A11 (A CH31.00 - A CH30.00) - TG2 4d Bay A11 (A CH32.00 - A CH30.00) - TG2 4d Bay R11 (A CH21.00 - A CH30.00) - TG2 4d Bay R1 | ss 2010/1. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/1. rs 2010/2. rs 2010/3. rs 2010/2. rs 2010/2. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. rs 2010/3. </td <td>9 2010/2/4 2010/2/11 2010/2/11 2 2010/2/12 3 2010/3/1 2010/3/1 2010/3/1 2010/3/15 2010/3/22 3 2010/3/29 0 2010/3/29 0 2010/3/11 8 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/12 2010/3/3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/24</td> <td></td>

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| Bay A10 (A CH71.00 - A CH33.00) - TG2 (W.B.) 6 d Bay A11 (A CH33.00 - A CH95.00) - TG2 (W.B.) 6 d Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.) 6 d Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6 d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6 d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A15 (A CH135.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6 d Bay A1 (A CH16.00 - A CH140.00) - Transition 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH44.00) - Transition 4 d Bay A6 (A CH41.00 - A CH51.00) - Transition 4 d Bay A9 (A CH59.00 - A CH30.00) - TG2 4 d Bay A9 (A CH59.00 - A CH30.00) - TG2 4 d Bay A11 (A CH30.00 - A CH30.00) - TG2 4 d Bay A11 (A CH30.00 - A CH30.00) - TG2 4 d Bay A11 (A CH30.00 - A CH30.00) - TG2 4 d Bay A11 (A CH33.00 - A CH30.00) - TG2 4 d Bay RT1 (A CH33.00 - A CH30.00) 7 d Ba | ys 2010/2 rs 2010/2 rs 2010/2 rs 2010/3 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/1 rs 2010/1 rs 2010/2 rs 2010/3 rs 2010/2 rs 2010/2 rs 2010/3 rs

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| Bay A11 (A CH83.00 - A CH95.00) - TG2 (W.B.) 6d Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.) 6d Bay A13 (A CH108.00 - A CH133.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Construction of catchpit / manhole / drain pige along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4d Bay A4 (A CH26.00 - A CH34.00) - Transition 4d Bay A5 (A CH41.00 - A CH41.00) - Transition 4d Bay A7 (A CH44.00 - A CH51.00) - Transition 4d Bay A10 (A CH71.00 - A CH51.00) - Transition 4d Bay A10 (A CH71.00 - A CH95.00) - TG2 4d Bay A10 (A CH71.00 - A CH95.00) - TG2 4d Bay A11 (A CH83.00 - A CH95.00) - TG2 4d Bay A11 (A CH83.00 - A CH95.00) - TG2 4d Bay A11 (A CH83.00 - A CH95.00) TG2 4d Bay A11 (A CH83.00 - A CH95.00) TG2 4d Bay A11 (A CH83.00 - A CH95.00) TG2 4d Bay A11 (A CH83.00 - A CH32.00) 7d | S 2010/2 YS 2010/2 YS 2010/3 YS 2010/2 YS 2010/2 YS 2010/2 YS 2010/3 YS 2010/3 YS 2010/3 YS 2010/3 YS 2010/1 YS 2010/2 YS 2010/3 YS 2010/2 YS 2010/2 YS 2010/2 YS 2010/2 YS 2010/3 YS

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| Bay A12 (A CH95.00 - A CH108.00) - TG2 (W.B.) 6d Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A14 (A CH18.00 - A CH170.00) - TG2 (W.B.) 6d Bay A14 (A CH18.00 - A CH140.00) - TG2 (W.B.) 6d Bay A14 (A CH18.00 - A CH140.00) - TG2 (W.B.) 6d Bay A4 (A CH26.00 - A CH34.00) - TC32 (W.B.) 6d Bay A4 (A CH26.00 - A CH34.00) - Transition 4d Bay A5 (A CH34.00 - A CH44.00) - Transition 4d Bay A6 (A CH41.00 - A CH44.00) - Transition 4d Bay A7 (A CH44.00 - A CH45.00) - TG2 4d Bay A9 (A CH59.00 - A CH70.00) - TG2 4d Bay A9 (A CH59.00 - A CH170.00) - TG2 4d Bay A11 (A CH271.00 - A CH283.00) TG2 Bay R11 (A CH271.00 - A CH283.00) TG2 Bay R17 (A CH280.00 - A CH320.00) Td2 Bay R17 (A CH280.00 - A CH332.00) Td2 Bay R17 (A CH320.00 - A CH33 | S 2010/2 /rs 2010/3 /rs 2010/2 /rs 2010/2 /rs 2010/2 /rs 2010/3 /rs 2010/1 /rs 2010/2 /rs 2010/2 /rs 2010/2 /rs 2010/2 /rs 2010/2 /rs 2010/3 /rs 2010/3 /rs 2010/3 /rs 2010/3 /rs 2010/3 /rs 2010/3 /rs 2010/3 <td>3 2010/3/1 2010/3/1 2010/3/1 2010/3/15 2010/3/15 6 2010/3/22 3 2010/3/15 6 2010/3/22 3 2010/3/11 8 2010/3/31 8 2010/2/22 3 2010/3/31 8 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/24</td> <td></td>

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| Bay A13 (A CH108.00 - A CH120.00) - TG2 (W.B.) 6d Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH145.00 - A CH170.00) - TG2 (W.B.) 6d Bay A16 (A CH18.00 - A CH26.00) - RC2 4d Bay A1 (A CH26.00 - A CH34.00) - Transition 4d Bay A5 (A CH34.00 - A CH34.00) - Transition 4d Bay A6 (A CH41.00 - A CH31.00) - Transition 4d Bay A1 (A CH59.00 - A CH59.00) - Transition 4d Bay A1 (A CH59.00 - A CH71.00) - TG2 4d Bay A10 (A CH71.00 - A CH33.00) - TG2 4d Bay A11 (A CH59.00 - A CH71.00) - TG2 4d Bay A11 (A CH59.00 - A CH283.00) 7d Bay RT1 (A CH28.00 - A CH32.00) - TG2 4d Bay RT2 (A CH28.3.00 - A CH32.00) 7d Bay RT4 (A CH308.00 - A CH32.00) 7d Bay RT3 (A CH29.00 - A CH32.00) 7d Bay RT4 (A CH308.00 - A CH332.00) 7d Bay RT5 (A CH33.00 - A CH332.00) 7d <td>//s 2010/3 //s 2010/2 //s 2010/2 //s 2010/2 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/1 //s 2010/1 //s 2010/2 //s 2010/3 //s 2010/1 //s 2010/1 //s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 <tr< td=""><td>2010/3/8 2010/3/15 6 2010/3/15 6 2010/3/22 3 2010/3/29 0 2010/3/11 8 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/12 3 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/16 7 2010/3/24</td><td></td></tr<></td> | //s 2010/3 //s 2010/2 //s 2010/2 //s 2010/2 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/1 //s 2010/1 //s 2010/2 //s 2010/3 //s 2010/1 //s 2010/1 //s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 <tr< td=""><td>2010/3/8 2010/3/15 6 2010/3/15 6 2010/3/22 3 2010/3/29 0 2010/3/11 8 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/2/26 7 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/12 2 2010/3/12 3 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/3/16 7 2010/3/16 7 2010/3/24</td><td></td></tr<>

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| Bay A14 (A CH120.00 - A CH133.00) - TG2 (W.B.) 6 d Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00) - A CH170.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 2 d Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A7 (A CH44.00 - A CH41.00) - Transition 4 d Bay A7 (A CH44.00 - A CH41.00) - Transition 4 d Bay A8 (A CH51.00 - A CH51.00) - Transition 4 d Bay A9 (A CH59.00 - A CH71.00) - TG2 4 d Bay A9 (A CH59.00 - A CH71.00) - TG2 4 d Bay A10 (A CH71.00 - A CH283.00) 7 d Bay R11 (A CH83.00 - A CH295.00) - TG2 4 d Bay R12 (A CH283.00 - A CH328.00) 7 d Bay R12 (A CH283.00 - A CH283.00) 7 d Bay R13 (A CH295.00 - A CH328.00) 7 d Bay R13 (A CH320.00 - A CH328.00) 7 d Bay R14 (A CH332.00 - A CH328.00) 7 d Bay R13 (A CH330.00 - A CH320.00) 7 d Bay R14 (A CH332.00 - A CH320.00) </td <td>//s 2010/3 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3</td> <td>2010/3/15 6 2010/3/12 3 2010/3/29 0 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/31 8 2010/3/31 9 2010/3/3 2010/3/3 2010/3/3 2010/3/12 3 3 2010/3/12 3 2010/3/12 3 2010/3/22 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 2 2010/3/14 2 2010/1/19 2 2010/2/18 2 2010/2/19 2 2010/2/19 2 2010/3/16 7 2010/3/24</td> <td></td> | //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3

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| Bay A15 (A CH133.00 - A CH145.00) - TG2 (W.B.) 6 d Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 2 d Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 4 d Bay A7 (A CH44.00 - A CH45.00) - Transition 4 d Bay A7 (A CH44.00 - A CH51.00) - Transition 4 d Bay A9 (A CH51.00 - A CH59.00) - Transition 4 d Bay A9 (A CH51.00 - A CH59.00) - TG2 4 d Bay A11 (A CH83.00 - A CH95.00) - TG2 4 d Bay A11 (A CH83.00 - A CH95.00) - TG2 4 d Bay RT1 (A CH271.00 - A CH283.00) 7 d Bay RT2 (A CH283.00 - A CH395.00) 7 d Bay RT2 (A CH283.00 - A CH392.00) 7 d Bay RT4 (A CH38.00 - A CH320.00) 7 d Bay RT4 (A CH38.00 - A CH320.00) 7 d Bay RT4 (A CH332.00 - A CH332.00) 7 d Bay RT5 (A CH33.00 - A CH332.00) 7 d Bay RT4 (A CH332.00 - A CH332.00 | //s 2010/3 //s 2010/3 //s 2010/3 //s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s<

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| Bay A16 (A CH145.00 - A CH157.00) - TG2 (W.B.) 6 d Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 2 d Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A6 (A CH41.00 - A CH41.00) - Transition 4 d Bay A6 (A CH41.00 - A CH51.00) - Transition 4 d Bay A7 (A CH44.00 - A CH51.00) - Transition 4 d Bay A9 (A CH51.00 - A CH59.00) - Transition 4 d Bay A9 (A CH71.00 - A CH95.00) - TG2 4 d Bay A10 (A CH71.00 - A CH95.00) - TG2 4 d Bay A11 (A CH271.00 - A CH283.00) 7 d Bay RT1 (A CH271.00 - A CH295.00) - TG2 4 d Bay RT2 (A CH283.00 - A CH295.00) 7 d Bay RT2 (A CH283.00 - A CH308.00) 7 d Bay RT4 (A CH308.00 - A CH320.00) 7 d Bay RT5 (A CH32.00 - A CH332.00) 7 d Bay RT6 (A CH332.00 - A CH330.00) 7 d Bay RT6 (A CH332.00 - A CH360.00) 7 d Bay RT6 (A CH332.00 - A CH360.00) 7 d Bay RT7 (A CH344.00 - A CH360.00) 6 | rs 2010/3 rs 2010/3 rs 2010/2 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/3 rs 2010/1 rs 2010/1 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/2 rs 2010/3 rs

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| Bay A17 (A CH157.00 - A CH170.00) - TG2 (W.B.) 2 d Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 4 d Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 4 d Bay A6 (A CH41.00 - A CH44.00) - Transition 4 d Bay A7 (A CH44.00 - A CH51.00) - Transition 4 d Bay A8 (A CH51.00 - A CH59.00) - Transition 4 d Bay A9 (A CH59.00 - A CH71.00) - TG2 4 d Bay A10 (A CH71.00 - A CH83.00) - TG2 4 d Bay A11 (A CH23.00 - A CH95.00) - TG2 4 d Bay R11 (A CH271.00 - A CH283.00) 7 d Bay R12 (A CH28.00) 7 d Bay R13 (A CH295.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH32.00) 7 d Bay R15 (A CH332.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R15 (A CH33.00 - A CH30.00) 7 d Bay R16 (A CH332.00 - A CH30.00) 7 d | /s 2010/3 ays 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s <td>0 2010/3/31 8 2010/3/31 8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/3 2010/3/3 2010/3/3 2010/3/3 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 4 2010/3/12 5 2010/3/14 6 2010/1/19 10 2010/2/18 10 2010/2/19 10 2010/2/19 10 2010/2/19 10 2010/3/18 10 2010/3/18 10 2010/3/16 7 2010/3/24</td> <td></td>

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| Construction of catchpit / manhole / drain pipe along the channel sides 36 Bay A3 (A CH18.00 - A CH26.00) - RC2 40 Bay A4 (A CH26.00 - A CH34.00) - Transition 40 Bay A5 (A CH34.00 - A CH41.00) - Transition 40 Bay A5 (A CH34.00 - A CH41.00) - Transition 40 Bay A6 (A CH41.00 - A CH41.00) - Transition 40 Bay A7 (A CH44.00 - A CH51.00) - Transition 40 Bay A7 (A CH44.00 - A CH51.00) - Transition 40 Bay A8 (A CH51.00 - A CH51.00) - Transition 40 Bay A9 (A CH59.00 - A CH71.00) - TG2 40 Bay A11 (A CH31.00 - A CH33.00) - TG2 40 Bay A11 (A CH30.0 - A CH95.00) - TG2 40 Bay RT1 (A CH32.00) - A CH93.00) 70 Bay RT1 (A CH23.00) - A CH33.00) 70 Bay RT2 (A CH283.00 - A CH32.00) 70 Bay RT3 (A CH32.00) - A CH32.00) 70 Bay RT5 (A CH32.00 - A CH32.00) 70 Bay RT5 (A CH32.00 - A CH33.00) 70 Bay RT5 (A CH32.00 - A CH32.00) 70 Bay RT5 (A CH32.00 - A CH33.00) 70 Bay RT5 (A CH32.00 - A CH34.00) 70 Bay RT7 (A CH34.00 - A CH34.00) 70 Bay RT7 (A CH34.00 | ays 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/2 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/3 /s 2010/1 /s 2010/1 /s 2010/1 /s 2010/2 ys 2010/2 ys 2010/3

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| Bay A3 (A CH18.00 - A CH26.00) - RC2 4 c Bay A4 (A CH26.00 - A CH34.00) - Transition 4 c Bay A5 (A CH34.00 - A CH41.00) - Transition 4 c Bay A5 (A CH34.00 - A CH41.00) - Transition 4 c Bay A6 (A CH41.00 - A CH41.00) - Transition 4 c Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A9 (A CH51.00 - A CH51.00) - Transition 4 c Bay A9 (A CH51.00 - A CH71.00) - TG2 4 c Bay A10 (A CH71.00 - A CH33.00) - TG2 4 c Bay A11 (A CH33.00 - A CH95.00) - TG2 4 c Bay RT1 (A CH271.00 - A CH283.00) 7 c Bay RT2 (A CH283.00 - A CH32.00) 7 c Bay RT3 (A CH295.00 - A CH385.00 7 c Bay RT3 (A CH32.00 - A CH32.00) 7 c Bay RT4 (A CH308.00 - A CH32.00) 7 c Bay RT5 (A CH33.00 - A CH33.00) 7 c Bay RT5 (A CH33.00 - A CH33.00) 7 c Bay RT4 (A CH308.00 - A CH38.00) 7 c Bay RT4 (A CH308.00 - A CH38.00) 7 c Bay RT5 (A CH33.00 - A CH38.00) 7 c Bay RT6 (A CH33.00 - A CH38.00) 6 c Section of Box culvert BCI3-1 <td>ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3</td> <td>8 2010/2/22 3 2010/2/26 7 2010/3/3 2010/3/12 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/12 3 2010/3/22 3 2010/3/26 7 2010/3/31 2 2010/1/19 20 2010/1/27 2010/2/8 2010/2/19 20 2010/2/19 20 2010/3/16 7 2010/3/24</td> <td></td> | ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3

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| Bay A4 (A CH26.00 - A CH34.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) - Transition 4 d Bay A5 (A CH34.00 - A CH41.00) & Pedestrian Crossing 4 d Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 4 d Bay A7 (A CH44.00 - A CH51.00) - Transition 4 d Bay A8 (A CH51.00 - A CH59.00) - Transition 4 d Bay A9 (A CH59.00 - A CH71.00) - TG2 4 d Bay A10 (A CH71.00 - A CH83.00) - TG2 4 d Bay A11 (A CH83.00 - A CH95.00) - TG2 4 d Bay RT1 (A CH271.00 - A CH283.00) 7 d Bay RT2 (A CH283.00 - A CH295.00) 7 d Bay RT3 (A CH295.00 - A CH320.00) 7 d Bay RT4 (A CH308.00 - A CH320.00) 7 d Bay RT5 (A CH320.00 - A CH320.00) 7 d Bay RT5 (A CH332.00 - A CH320.00) 7 d Bay RT6 (A CH332.00 - A CH330.00) 7 d Bay RT5 (A CH332.00 - A CH330.00) 7 d Bay RT6 (A CH332.00 - A CH363.00) 7 d Bay RT6 (A CH332.00 - A CH363.00) 7 d Bay RT9 (A CH363.00 - A CH363.00) 7 d Bay RT9 (A CH363.00 - A CH380.00) 6 d Section of Box Culvert BC13-1 6 d Construct box cu | ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3

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| Bay A5 (A CH34.00 - A CH41.00) - Transition 4 c Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 4 c Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A8 (A CH51.00 - A CH59.00) - Transition 4 c Bay A9 (A CH59.00 - A CH71.00) - TG2 4 c Bay A10 (A CH71.00 - A CH83.00) - TG2 4 c Bay A11 (A CH33.00 - A CH95.00) - TG2 4 c Bay A11 (A CH33.00 - A CH95.00) - TG2 4 c Bay A11 (A CH33.00 - A CH95.00) - TG2 4 c Bay R11 (A CH271.00 - A CH283.00) 7 c Bay R11 (A CH271.00 - A CH283.00) 7 c Bay R12 (A CH283.00 - A CH295.00) 7 c Bay R13 (A CH295.00 - A CH383.00) 7 c Bay R14 (A CH308.00 - A CH320.00) 7 c Bay R15 (A CH320.00 - A CH332.00) 7 c Bay R15 (A CH320.00 - A CH332.00) 7 c Bay R17 (A CH344.00 - A CH353.00) 7 c Bay R17 (A CH344.00 - A CH363.00) 7 c Bay R18 (A CH353.00 - A CH363.00) 7 c Bay R17 (A CH344.00 - A CH363.00) 6 c Bay R19 (A CH363.00 - A CH363.00) 6 c Bay R19 (A CH363.00 - BC CH386.00) 6 c Bay R19 (A CH363.00 - BC CH1380. | //s 2010/2 //s 2010/3 /ys 2010/1 /ys 2010/1 /ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3

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| Bay A6 (A CH41.00 - A CH44.00) & Pedestrian Crossing 4 c Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A8 (A CH51.00 - A CH59.00) - Transition 4 c Bay A9 (A CH59.00 - A CH71.00) - TG2 4 c Bay A10 (A CH71.00 - A CH83.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Bay R11 (A CH271.00 - A CH283.00) 7 c Bay RT1 (A CH271.00 - A CH283.00) 7 c Bay RT2 (A CH283.00 - A CH295.00) 7 c Bay RT3 (A CH295.00) - A CH383.00) 7 c Bay RT4 (A CH308.00 - A CH320.00) 7 c Bay RT5 (A CH320.00 - A CH332.00) 7 c Bay RT6 (A CH332.00 - A CH353.00) 7 c Bay RT7 (A CH344.00 - A CH353.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 6 c Section of Box Culvert BC13-1 46 Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00) 4 c Bay BC15 (BC CH173.00 - BC CH173.00) 4 c Bay BC13 (BC CH173.00 - | //s 2010/3 /ys 2010/3 /ys 2010/1 /ys 2010/1 /ys 2010/2 ys 2010/2 ys 2010/3

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| Bay A7 (A CH44.00 - A CH51.00) - Transition 4 c Bay A8 (A CH51.00 - A CH59.00) - Transition 4 c Bay A9 (A CH59.00 - A CH71.00) - TG2 4 c Bay A10 (A CH71.00 - A CH83.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Bay A11 (A CH23.00 - A CH95.00) - TG2 4 c Bay RT1 (A CH271.00 - A CH283.00) 7 c Bay RT2 (A CH283.00 - A CH95.00) 7 c Bay RT3 (A CH295.00 - A CH308.00) 7 c Bay RT3 (A CH295.00 - A CH308.00) 7 c Bay RT3 (A CH308.00 - A CH308.00) 7 c Bay RT5 (A CH320.00 - A CH308.00) 7 c Bay RT5 (A CH320.00 - A CH320.00) 7 c Bay RT5 (A CH320.00 - A CH320.00) 7 c Bay RT5 (A CH330.0 - A CH332.00) 7 c Bay RT6 (A CH333.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 6 c Bay RT9 (A CH363.00 - A CH363.00) 6 c Bay RT9 (A CH363.00 - BC CH386.00) 6 c Bay BC15 (BC CH173.00 - BC CH187.00) 4 c | ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3

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| Bay A8 (A CH51.00 - A CH59.00) - Transition 4 c Bay A9 (A CH59.00 - A CH71.00) - TG2 4 c Bay A10 (A CH71.00 - A CH83.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Construction retaining wall KT13-1 at A CH269.00 - A CH385.00 West bank 65 Bay RT1 (A CH271.00 - A CH283.00) 7 c Bay RT2 (A CH283.00 - A CH295.00) 7 c Bay RT3 (A CH295.00 - A CH308.00) 7 c Bay RT4 (A CH308.00 - A CH320.00) 7 c Bay RT5 (A CH320.00 - A CH320.00) 7 c Bay RT5 (A CH320.00 - A CH332.00) 7 c Bay RT6 (A CH332.00 - A CH332.00) 7 c Bay RT7 (A CH344.00 - A CH353.00) 7 c Bay RT7 (A CH344.00 - A CH353.00) 7 c Bay RT9 (A CH363.00 - A CH380.00) 7 c Bay RT9 (A CH363.00 - A CH380.00) 6 c Section of Box Culvert BC13-1 4 c Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00) 4 c Bay BC15 (BC CH173.00 - BC CH187.00) 4 c Bay BC14 (BC CH158.00 - BC CH173.00) 4 c Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction | ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3

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| Bay A9 (A CH59.00 - A CH71.00) - TG2 4 c Bay A10 (A CH71.00 - A CH83.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Construction retaining wall KT13-1 at A CH269.00 - A CH385.00 West bank 65 Bay RT1 (A CH271.00 - A CH283.00) 7 c Bay RT2 (A CH283.00 - A CH295.00) 7 c Bay RT3 (A CH295.00 - A CH308.00) 7 c Bay RT4 (A CH308.00 - A CH320.00) 7 c Bay RT5 (A CH320.00 - A CH332.00) 7 c Bay RT6 (A CH320.00 - A CH332.00) 7 c Bay RT6 (A CH332.00 - A CH344.00) 7 c Bay RT7 (A CH344.00 - A CH353.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH386.00) 6 c Section of Box Culvert BC13-1 46 Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00) 4 c Bay BC15 (BC CH173.00 - BC CH187.00) 4 c Bay BC14 (BC CH158.00 - BC CH173.00) 4 c Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction of box culvert Type BC1 4 c | ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/1 ys 2010/1 ys 2010/1 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3

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| Bay A10 (A CH71.00 - A CH83.00) - TG2 4 c Bay A11 (A CH83.00 - A CH95.00) - TG2 4 c Construction retaining wall KT13-1 at A CH269.00 - A CH385.00 West bank 65 Bay RT1 (A CH271.00 - A CH283.00) 7 c Bay RT2 (A CH283.00 - A CH295.00) 7 c Bay RT3 (A CH295.00 - A CH308.00) 7 c Bay RT4 (A CH308.00 - A CH320.00) 7 c Bay RT5 (A CH320.00 - A CH332.00) 7 c Bay RT6 (A CH320.00 - A CH344.00) 7 c Bay RT7 (A CH344.00 - A CH353.00) 7 c Bay RT9 (A CH353.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH363.00) 7 c Bay RT9 (A CH363.00 - A CH386.00) 6 c Section of Box Culvert BC13-1 46 Construct box culvert BC13-1 (BC CH0.00 - BC CH386.00) 4 c Bay BC15 (BC CH173.00 - BC CH187.00) 4 c Bay BC14 (BC CH158.00 - BC CH173.00) 4 c Bay BC13 (BC CH143.00 - BC CH158.00) 4 c Construction of box culvert Type BC1 44 | ys 2010/3 ys 2010/3 ays 2010/1 ys 2010/1 ys 2010/1 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/2 ys 2010/3 ys 2010/3 ys 2010/3 ys 2010/3

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| Bay BC25 (BC CH320.00 - BC CH334.00) 5 c |

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| Bay BC16 (BC CH187.00 - BC CH201.00) 6 c | · · · · · · · · · · · · · · · · · · ·

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| Bay BC18 (BC CH216.00 - BC CH231.00) 2 c |

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| Bay BC17 (BC CH201.00 - BC CH216.00) 2 (|

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| Bay BC25 (BC CH320.00 - BC CH334.00) 2 d | ys 2010/2

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| Bay BC24 (BC CH305.00 - BC CH320.00) 2 d | ys 2010/2

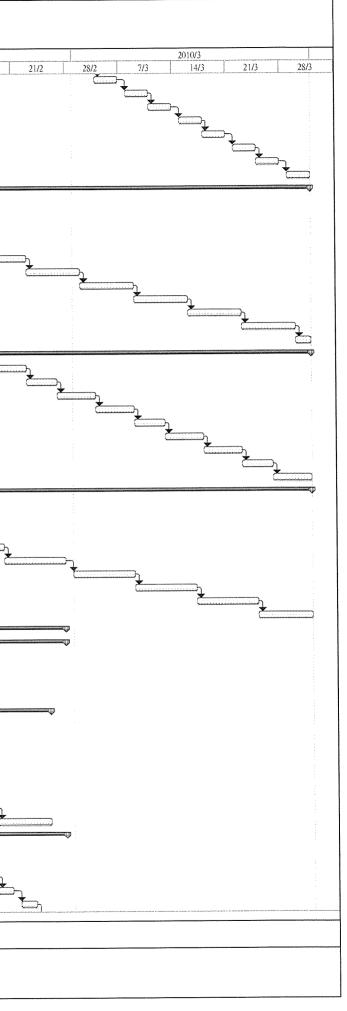
 | 22 2010/2/23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Task Split Progress | Milest

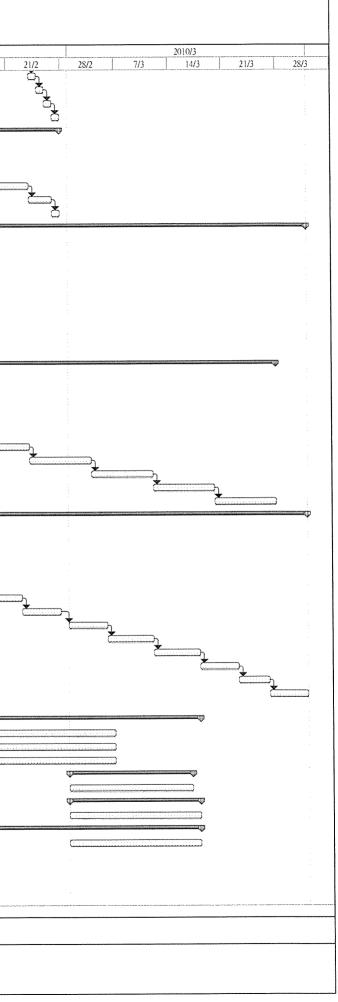
 | ne 🕈 | Summary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Drainage Improvement Wo	orks in Cheung Po, N	0	Ū	Jen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun
Task Name	Duration		Months Rolling I	Programme - January 2010 to March 2010 2010/1 2010/2
				<u>27/12</u> <u>3/1</u> <u>10/1</u> <u>17/1</u> <u>24/1</u> <u>31/1</u> <u>7/2</u> <u>14/</u>
Bay BC16 (BC CH187.00 - BC CH201.00)	1 day	2010/2/24	2010/2/24	
Bay BC15 (BC CH173.00 - BC CH187.00)	1 day	2010/2/25	2010/2/25	
Bay BC14 (BC CH158.00 - BC CH173.00)	1 day	2010/2/26	2010/2/26	
Bay BC13 (BC CH143.00 - BC CH158.00)	1 day	2010/2/27	2010/2/27	
Construction of catchpit / manhole / drain pipe along channel sides	20 days		2010/2/27	
Bay BC29 (BC CH372.00 - BC CH386.00)	4 days	2010/2/2	2010/2/5	
Bay BC28 (BC CH363.00 - BC CH372.00)	4 days	2010/2/6	2010/2/10	
Bay BC27 (BC CH349.00 - BC CH363.00)	4 days	2010/2/11	2010/2/18	
Bay BC26 (BC CH334.00 - BC CH349.00)	4 days	2010/2/19	2010/2/23	
Bay BC23 (BC CH291.00 - BC CH305.00)	3 days	2010/2/24	2010/2/26	
Bay BC22 (BC CH276.00 - BC CH291.00)	1 day	2010/2/27	2010/2/27	
Section B	· · · · · · · · · · · · · · · · · · ·		2010/3/31	
Construction of channel structure (Transition, TG3, TG4, TG5, and TG8)	10 days		2010/1/26	
Bay B2 (B CH07.00 - B CH14.00) - Transition	5 days	2010/1/15	2010/1/20	
Bay B1 (B CH00.00 - B CH07.00) - Transition	5 days	2010/1/21	2010/1/26	
Backfilling along the sides of channel & laying of underground drain	6 days	2010/1/27	2010/2/2	× · · · · · · · · · · · · · · · · · · ·
Bay B2 (B CH07.00 - B CH14.00) - Transition	3 days	2010/1/27	2010/1/29	
Bay B1 (B CH00.00 - B CH07.00) - Transition	3 days	2010/1/30	2010/2/2	
Installation of Type 2 railing on top of channel wall	4 days	2010/2/3	2010/2/6	¥
Bay B2 (B CH07.00 - B CH14.00) - Transition	2 days	2010/2/3	2010/2/4	
Bay B1 (B CH00.00 - B CH07.00) - Transition	2 days	2010/2/5	2010/2/6	
Laying gabion block / granite block inside the channel	70 days		2010/3/27	
Bay B12 (B CH119.00 - B CH129.00) - TG3	7 days	2010/1/2	2010/1/9	
Bay B11 (B CH107.00 - B CH119.00) - TG3	7 days	2010/1/11	2010/1/18	
Bay B10 (B CH94.00 - B CH107.00) - TG3	7 days	2010/1/19	2010/1/26	
Bay B9 (B CH80.00 - B CH94.00) - TG3	7 days	2010/1/27	2010/2/3	
Bay B8 (B CH68.00 - B CH80.00) - TG3	7 days	2010/2/4	2010/2/11	
Bay B7 (B CH57.00 - B CH68.00) - TG3	7 days	2010/2/12	2010/2/23	
Bay B6 (B CH46.00 - B CH57.00) - TG3	7 days	2010/2/24	2010/3/3	
Bay B5 (B CH34.00 - B CH46.00) - TG3	7 days	2010/3/4	2010/3/11	
Bay B4 (B CH24.00 - B CH34.00) - TG3	7 days	2010/3/12	2010/3/19	
Bay B3 (B CH14.00 - B CH24.00) - TG3	7 days	2010/3/20	2010/3/27	
Construction of catchpit / manhole / drain pipe along channel sides	62 days		2010/3/31	Q
Bay B30 (B CH302.00 - B CH312.00) - Transition	5 days	2010/1/15	2010/1/20	
Bay B29 (B CH294.00 - B CH302.00) - Transition	5 days	2010/1/21	2010/1/26	
Bay B28 (B CH282.00 - B CH294.00) - TG4	5 days	2010/1/27	2010/2/1	
Bay B27 (B CH270.00 - B CH282.00) - TG4	5 days	2010/2/2	2010/2/6	
Bay B26 (B CH260.00 - B CH270.00) - TG4	5 days	2010/2/8	2010/2/12	
Bay B25 (B CH248.00 - B CH260.00) - TG5	5 days	2010/2/17	2010/2/22	
Bay B24 (B CH236.00 - B CH248.00) - TG5	5 days	2010/2/23	2010/2/27	
Bay B23 (B CH224.00 - B CH236.00) - TG5	5 days	2010/3/1	2010/3/5	
Bay B22 (B CH212.00 - B CH224.00) - TG5	5 days	2010/3/6	2010/3/11	
Bay B21 (B CH200.00 - B CH212.00) - TG8	5 days	2010/3/12	2010/3/17	
Bay B20 (B CH188.00 - B CH200.00) - TG8	4 days	2010/3/18	2010/3/22	
Bay B19 (B CH174.00 - B CH188.00) - TG8	4 days	2010/3/23	2010/3/26	
Bay B18 (B CH162.00 - B CH174.00) - TG8	4 days	2010/3/27	2010/3/31	
	(1.1	0010/10	00100/10	
Section IV (Channel KT14B & 14C and Portion 8A & 8B)		2010/1/2	2010/3/17	·
Regular Environmental Impact Monitoring	52 days		2010/3/6	
Regular Tree Survey & Protection		2010/1/2	2010/3/6	
Regular Structural Condition Survey		2010/1/2	2010/3/6	
Portion 8B (CP1 to CP9) - Kam Sheung Road		2010/3/1	2010/3/16	
Planting of Shrubs and Compensatory Planting		2010/3/1	2010/3/16	
Channel 14B		2010/3/1	2010/3/17	
Compensatory Planting		2010/3/1	2010/3/17	
Channel KT14C		2010/1/2	2010/3/17	
Compensatory Planting		2010/3/1	2010/3/17	
Rectangular channel 2.5m(W) x 2.0m(H) Type RC-1 (CH0.00 -CH475.00)		2010/1/2	2010/1/29	
Construction of channel structure (CH180.00 - CH475.00)		2010/1/2	2010/1/20	
Bay 6E (CH420.00 - CH408.00)	8 days	2010/1/2	2010/1/11	<u></u>
Bay 7E (CH408.00 - CH398.00)	8 days	2010/1/12	2010/1/20	
Task Construction Split Progress		Milestone �		Summary 🖓 🛶 🖓



Drainage Improvement Work		en Kong San Tsue	ract No. : DC/2007/17 n and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun
Task Name	Thre Duration Start	e Months Rolling P	rogramme - January 2010 to March 2010 2010/1 2010/2 2010/3
			27/12 3/1 10/1 17/1 24/1 31/1 7/2 14/2 21/2 28/2 7/3 14/3 21/3
Backfilling along the sides of the channel structure & laying underground drain pipe Bay 6E (CH420.00 - CH408.00)	8 days 2010/1/21 4 days 2010/1/21	2010/1/29 2010/1/25	
Bay 6E (CH420.00 - CH408.00) Bay 7E (CH408.00 - CH398.00)	4 days 2010/1/21 4 days 2010/1/26	2010/1/29	
Laying gabion blocks	27 days 2010/1/2	2010/2/2	QQ
Bay 8E (CH398.00 - CH390.00)	3 days 2010/1/2	2010/1/5	
Bay 9E (CH390.00 - CH384.00)	3 days 2010/1/6	2010/1/8	
Bay 10E (CH384.00 - CH371.00) Bay 11E (CH371.00 - CH359.00)	3 days 2010/1/9	2010/1/12	
Bay 11E (CH371.00 - CH359.00) Bay 12E (CH359.00 - CH347.00)	3 days 2010/1/2	2010/1/5	
	3 days 2010/1/6 3 days 2010/1/9	2010/1/8 2010/1/12	
Bay 13E (CH347.00 - CH336.00) Bay 14E (CH336.00 - CH324.00)	3 days 2010/1/9 3 days 2010/1/13	2010/1/12 2010/1/15	
Bay 14E (CH336.00 - CH324.00) Bay 15E-1 (CH324.00 - CH318.00)	3 days 2010/1/16	2010/1/19	
Bay 15E-2 (CH318.00 - CH311.00)	3 days 2010/1/20	2010/1/22	
Bay 2E (CH452.00 - CH446.00)	3 days 2010/1/23	2010/1/26	
Bay 3E (CH446.00 - CH434.00)	3 days 2010/1/27	2010/1/29	
Bay 4E (CH434.00 - CH426.00)	3 days 2010/1/30	2010/2/2	
Construction of catchpit / manhole / drain pipe Bay 15E-2 (CH318.00 - CH311.00)	34 days 2010/1/2	2010/2/10	
Bay 15E-2 (CH318.00 - CH311.00) Bay 16E (CH311.00 - CH299.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2)	2 days 2010/1/2 2 days 2010/1/5	2010/1/4 2010/1/6	
Bay 16E (CH311.00 - CH299.00) - 2.5m(W) x 2.0m(H) Box Culvert (Type BC2) Bay 20E (CH267.00 - CH255.00)	2 days 2010/1/3 2 days 2010/1/7	2010/1/8	
Bay 20E (CH257.00 - CH253.00) Bay 21E (CH255.00 - CH243.00)	2 days 2010/1/9	2010/1/1	
Bay 22E (CH243.00 - CH235.00)	2 days 2010/1/12	2010/1/13	
Bay 23E (CH235.00 - CH222.00)	2 days 2010/1/14	2010/1/15	
Bay 24E (CH222.00 - CH210.00)	2 days 2010/1/16	2010/1/18	
Bay 25E (CH210.00 - CH199.00)	2 days 2010/1/19	2010/1/20	
Bay 26E (CH199.00 - CH187.00)	2 days 2010/1/21	2010/1/22	
Bay 1E (CH466.00 - CH452.00) Bay 2E (CH452.00 - CH446.00)	2 days 2010/1/23	2010/1/25 2010/1/27	
Bay 2E (CH452.00 - CH446.00) Bay 3E (CH446.00 - CH434.00)	2 days 2010/1/26 2 days 2010/1/28	2010/1/27	
Bay 4E (CH434.00 - CH434.00) Bay 4E (CH434.00 - CH426.00)	2 days 2010/1/20 2 days 2010/1/20	2010/2/1	
Bay 5E (CH426.00 - CH420.00)	2 days 2010/2/2	2010/2/3	
5 Bay 8E (CH401.00 - CH390.00)	2 days 2010/2/4	2010/2/5	Č.
5 Bay 9E (CH390.00 - CH384.00)	2 days 2010/2/6	2010/2/8	
7 Bay 10E (CH384.00 - CH371.00)	2 days 2010/2/9	2010/2/10	
Installation of Type 2 railing on top of channel walls	24 days 2010/1/11	2010/2/6	
9 Bay 20E (CH267.00 - CH255.00) 0 Bay 21E (CH255.00 - CH243.00)	2 days 2010/1/11 2 days 2010/1/13	2010/1/12 2010/1/14	
0 Bay 21E (CH255.00 - CH243.00) 1 Bay 22E (CH243.00 - CH235.00)	2 days 2010/1/13 2 days 2010/1/15	2010/1/14	
Bay 22E (CH255.00 - CH252.00) Bay 23E (CH235.00 - CH222.00)	2 days 2010/1/18	2010/1/19	
Bay 24E (CH222.00 - CH210.00)	2 days 2010/1/20	2010/1/21	
Bay 25E (CH210.00 - CH199.00)	2 days 2010/1/22	2010/1/23	
Bay 26E (CH199.00 - CH187.00)	2 days 2010/1/25	2010/1/26	
Bay 1E (CH466.00 - CH452.00) Bay 2E (CH452.00 - CH446.00)	2 days 2010/1/27	2010/1/28	
	2 days 2010/1/29	2010/1/30	
Bay 3E (CH446.00 - CH434.00) Bay 4E (CH434.00 - CH426.00)	2 days 2010/2/1 2 days 2010/2/3	2010/2/2 2010/2/4	
Bay 5E (CH426.00 - CH420.00)	2 days 2010/2/5	2010/2/4	
Construction of Ramp No. 2 at KT14C (CH200.00 - CH220.00) (West Bank)	15 days 2010/1/11	2010/1/27	\diamond
Bay 24 & Bay 25 (CH200.00 - CH220.00)	15 days 2010/1/11	2010/1/27	
Construction of 3.5m access road at CH180.00 - CH270.00 (west bank)	20 days 2010/1/19	2010/2/10	
Installation of traffic sign plate / Road marking / street furniture	20 days 2010/1/19	2010/2/10	
Section V	73 days 2010/1/2	2010/3/31	
Preservation and protection of tree for Section I, II, III and IV	73 days 2010/1/2	2010/3/31	
and i be a be	, 5 unga 2010/1/2	2010/0/0101	
Section VI - Portion 9A & 9B (Tuen Mun Sewerage Work)	73 days 2010/1/2	2010/3/31	
Structural Survey and Monitoring	73 days 2010/1/2	2010/3/31	
Construction of Manhole, Timber Box and Trench Excavation	73 days 2010/1/2	2010/3/31	
Section VII - Portion 10A, 10B & 10C (Tuen Mun Sewerage Work)	73 days 2010/1/2	2010/3/31	V
Structural Survey and Monitoring	73 days 2010/1/2	2010/3/31	
Construction of Manhole, Timber Box and Trench Excavation	73 days 2010/1/2	2010/3/31	
Task Split Progress	Milestone		Summary The second se
			- -
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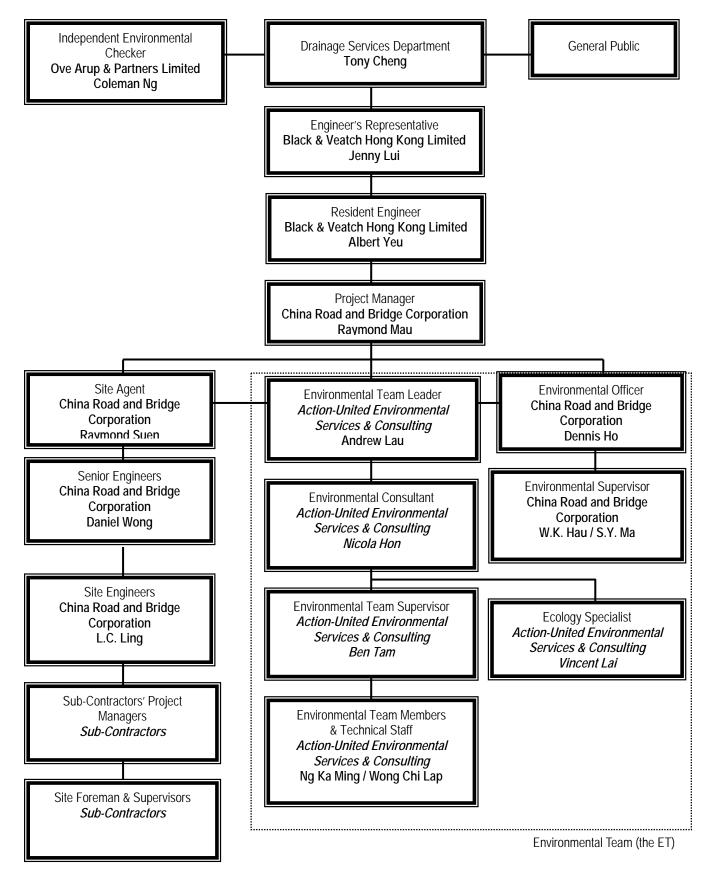
Appendix C

Environmental Management Organization and

Contacts of Key Personnel

DSD Contract No. DC/2007/17 - Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun. EM&A Report - Appendix





Environmental Management Organization



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Employer	Mr. Tony Cheng	2594-7264	2827-8526
B&V	Engineer's Representative	Ms. Jenny Lui	2478-9161	2478-9369
B&V	Resident Engineer	Mr. Albert Yeu	2478-9161	2478-9369
OAP	Independent Environmental Checker	Mr. Coleman Ng	2268-3097	2268-3950
CRBC	Project Director	Mr. Wang Yanhua	2283-1688	2283-1689
CRBC	Project Manager	Mr. Raymond Mau	9048-3669	2283-1689
CRBC	Site Agent	Mr. Raymond Suen	9779-8871	2283-1689
CRBC	Senior Engineer (Tuen Mun Site)	Mr. Daniel Wong	9858-3176	2283-1689
CRBC	Site Engineer (Tuen Mun Site)	Mr. L.C. Ling	6770-4010	2283-1689
CRBC	Environmental Officer	Mr. Dennis Ho	6474-6975	2283-1689
CRBC	Environmental / Construction Supervisor (Tuen Mun and Yuen Long site)	Mr. W.K. Hau	6283-9696	2283-1689
CRBC	Environmental / Construction Supervisor (Yuen Long site)	Mr. S.Y. Ma	9401-6296	2283-1689
CRBC	Safety Officer	Mr. Kenny Sze	9374-8954	2283-1689
AUES	Environmental Team Leader	Mr. Andrew Lau	2959-6059	2959-6079
AUES	Environmental Consultant	Miss Nicola Hon	2959-6059	2959-6079
AUES	Environmental Site Inspector	Mr. Ben Tam	2959-6059	2959-6079
AUES	Ecologist	Mr. Vincent Lai	2959-6059	2959-6079

Contact Details of Key Personnel

Legend:

DSD(Employer) – Drainage Services Department B&V (Engineer) – Black & Veatch Hong Kong Limited CRBC (Main Contractor) – China Road and Bridge Corporation OAP(IEC) – Ove Arup & Partners Ltd AUES (ET) – Action-United Environmental Services & Consulting



Appendix D

- (a) Monitoring Schedules
- (b) Meteorological Data



Date		Air (Juality	Noise Leq 30min	Water Quality	Ecology Surveys
		1-hour TSP	24-hour TSP			
Thu	26-Nov-09	A1(a), A2		N1(a), N2(a) & N3		
Fri	27-Nov-09				W1,W2, W3(a), W4, W5 & W6	
Sat	28-Nov-09					
Sun	29-Nov-09					
Mon	30-Nov-09				W1,W2, W3(a), W4, W5 & W6	
Tue	1-Dec-09		A1(a), A2			
Wed	2-Dec-09	A1(a), A2		N1(a), N2(a) & N3	W1,W2, W3(a), W4, W5 & W6	
Thu	3-Dec-09					
Fri	4-Dec-09				W1,W2, W3(a), W4, W5 & W6	
Sat	5-Dec-09					
Sun	6-Dec-09				W1,W2, W3(a), W4, W5 &	
Mon	7-Dec-09		A1(a), A2		W1,W2, W3(a), W4, W5 & W6	
Tue	8-Dec-09	A1(a), A2		N1(a), N2(a) & N3		
Wed	9-Dec-09				W1,W2, W3(a), W4, W5 & W6	
Thu	10-Dec-09					
Fri	11-Dec-09				W1,W2, W3(a), W4, W5 & W6	
Sat	12-Dec-09		A1(a), A2			
Sun	13-Dec-09					
Mon	14-Dec-09	A1(a), A2		N1(a), N2(a) & N3	W1,W2, W3(a), W4, W5 & W6	
Tue	15-Dec-09					
Wed	16-Dec-09				W1,W2, W3(a), W4, W5 & W6	
Thu	17-Dec-09					
Fri	18-Dec-09		A1(a), A2		W1,W2, W3(a), W4, W5 & W6	
Sat	19-Dec-09	A1(a), A2		N1(a), N2(a) & N3		
Sun	20-Dec-09					
Mon	21-Dec-09				W1,W2, W3(a), W4, W5 & W6	
Tue	22-Dec-09					
Wed	23-Dec-09				W1,W2, W3(a), W4, W5 & W6	
Thu	24-Dec-09		A1(a), A2			
Fri	25-Dec-09					

Monitoring Schedule for KT 13 for Reporting Period

Cultural Heritage

Frequency:

Condition survey - Bi-monthly Settlement monitoring - Bi-weekly

Landscape & Visual

Frequency:

Monitoring Day
Sunday or Public Holiday

Bi-weekly



Date		Air Q	Quality	Noise Leq 30min	Water Quality	Ecology Surveys
		1-hour TSP	24-hour TSP			
Sat	26-Dec-09					
Sun	27-Dec-09			N1(a), N2(a) &	W1,W2, W3(a), W4, W5 &	
Mon	28-Dec-09	A1(a), A2		N1(a), N2(a) &	W6	
Tue	29-Dec-09				W1,W2, W3(a), W4, W5 &	
Wed	30-Dec-09		A1(a), A2		W1,W2, W5(a), W4, W5 & W6	
Thu	31-Dec-09			-	1	
Fri	1-Jan-10				W1,W2, W3(a), W4, W5 &	
Sat	2-Jan-10		A1(a), A2		W1,W2, W3(a), W4, W3 & W6	
Sun	3-Jan-10					
Mon	4-Jan-10	A1(a), A2		N1(a), N2(a) & N3	W1,W2, W3(a), W4, W5 & W6	
Tue	5-Jan-10					
Wed	6-Jan-10				W1,W2, W3(a), W4, W5 & W6	
Thu	7-Jan-10					
Fri	8-Jan-10		A1(a), A2		W1,W2, W3(a), W4, W5 & W6	
Sat	9-Jan-10	A1(a), A2		N1(a), N2(a) & N3		
Sun	10-Jan-10					
Mon	11-Jan-10				W1,W2, W3(a), W4, W5 & W6	
Tue	12-Jan-10					
Wed	13-Jan-10				W1,W2, W3(a), W4, W5 & W6	
Thu	14-Jan-10		A1(a), A2			
Fri	15-Jan-10	A1(a), A2		N1(a), N2(a) & N3	W1,W2, W3(a), W4, W5 & W6	
Sat	16-Jan-10					
Sun	17-Jan-10					
Mon	18-Jan-10				W1,W2, W3(a), W4, W5 & W6	
Tue	19-Jan-10					
Wed	20-Jan-10		A1(a), A2		W1,W2, W3(a), W4, W5 & W6	
Thu	21-Jan-10	A1(a), A2		N1(a), N2(a) & N3		
Fri	22-Jan-10				W1,W2, W3(a), W4, W5 & W6	
Sat	23-Jan-10					
Sun	24-Jan-10					
Mon	25-Jan-10				W1,W2, W3(a), W4, W5 & W6	

Monitoring Schedule of KT 13 for next reporting month

Cultural Heritage

<u>Frequency</u>: Condition survey - Bi-monthly Settlement monitoring - Bi-weekly

Landscape & Visual

Frequency:

Bi-weekly

Monitoring Day
Sunday or Public Holiday



Meteorological Data Extracted from HKO during the Reporting Period

				Lau Fau Shan Weather Station					
	Date	Weather	Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction		
Thu	26-Nov-09	Sunny periods. Moderate east to northeasterly winds.	0	22.4	13.2	71	Е		
Fri	27-Nov-09	Sunny periods in the afternoon. Mainly cloudy overnight. Moderate east to northeasterly winds.	0	23.9	9.5	69.2	E/SE		
Sat	28-Nov-09	Mainly fine and dry. Fresh easterly winds, occasionally strong over offshore waters and on high ground	0	23.1	12	66.7	E/SE		
Sun	29-Nov-09	Fine but hazy. Dry during the day. Moderate northeasterly winds	Trace	21.7	8.5	68	Е		
Mon	30-Nov-09	Fine but hazy. Moderate north to northeasterly winds.	Trace	18.6	13.5	67.5	E/NE		
Tue	1-Dec-09	Mainly fine but hazy. Moderate northeasterly winds, becoming fresh northerlies tonight.	0	17.5	10	66.5	Е		
Wed	2-Dec-09	Fine and dry. Moderate to fresh north to northeasterly winds.	0	19.2	11.2	67.5	E/NE		
Thu	3-Dec-09	Fine and dry. Cool in the morning. Moderate to fresh north to northeasterly winds.	0	16.5	19.2	64.7	N/NE		
Fri	4-Dec-09	Fine and dry apart from some haze. Cool overnight.Moderate east to northeasterly winds, fresh at times	0	16.6	12.5	55	Е		
Sat	5-Dec-09	Very dry in the afternoon. Moderate northerly winds, becoming fresh easterlies later.	0	17.4	10.7	52	E/NE		
Sun	6-Dec-09	Cloudy. Fresh easterly winds, occasionally strong over offshore waters.	Trace	18.9	11.5	59.2	E/NE		
Mon	7-Dec-09	Mainly cloudy with a few rain patches. Moderate northeasterly winds.	5.5	17.2	13.7	83.5	E/NE		
Tue	8-Dec-09	Mainly cloudy with a few rain patches. Moderate north to northeasterly winds.	14.1	18	14	90.5	E/NE		
Wed	9-Dec-09	Mainly fine apart from relatively low visibility at first. Light to moderate north to northeasterly winds	0.4	18.6	6.5	88	E/NE		
Thu	10-Dec-09	Mainly fine apart from some haze	Trace	19.3	9.5	83.5	N/NW		
Fri	11-Dec-09	Sunny periods. Visibility relatively low at first. Light winds, becoming moderate easterlies	Trace	20.5	8	78	E/SE		
Sat	12-Dec-09	Sunny periods. Moderate to fresh easterly	Trace	22.4	12	72.5	Е		
Sun	13-Dec-09	Cloudy with a few rain patches. Moderate easterly winds, becoming fresh northerlies	0	19.8	9.7	81.5	E/SE		
Mon	14-Dec-09	Mainly cloudy. Visibility rather low. Moderate to fresh easterly winds.	1	21	16	78.7	Е		
Tue	15-Dec-09	Moderate northerly winds, occasionally fresh over offshore waters.	9.6	18.7	18	81.7	E/NE		
Wed	16-Dec-09	Cloudy with a few rain patches at first. It will be cold. Fresh northerly winds.	3.8	12.4	17.5	80.5	NE		
Thu	17-Dec-09	Sunny intervals and dry tomorrow with a maximum temperature of around 15 degrees.	Trace	11.1	18	75	Ν		
Fri	18-Dec-09	Mainly cloudy and cold. Dry during the day.	Trace	10.9	14.4	67.7	NE		
Sat	19-Dec-09	Cold and dry. Cloudy at first. Sunny periods during the day.	0	12.7	13.4	57.2	NE		
Sun	20-Dec-09	Mainly cloudy. Very dry with sunny periods in the afternoon.	0	12.7	14.2	36.7	N/NE		
Mon	21-Dec-09	Cloudy and dry. Sunny periods during the day.	0	14	12.2	42	E/NE		
Tue	22-Dec-09	Sunny periods. Moderate easterly winds.	0	16	10.8	69	Е		
Wed	23-Dec-09	Cloudy. Sunny periods tomorrow. Moderate easterly winds.	0	19.2	15	68	E/NE		
Thu	24-Dec-09	Mainly fine. Moderate easterly winds.	0	18.9	11.6	82.5	W/SW		
Fri	25-Dec-09	Holiday							



Appendix E

Calibration Certificates and

HOKLAS-Accreditation Certificate



Equipment Calibration List for Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Item	Issue	Description of Equipment	Date of Calibration	Date of Next Calibration
1		Tisch Calibration Kit Model TE-5025A (Serial No. 1612)	2 Jun 09	2 Jun 10
2*		TSP Sampler Calibration Spreadsheet for KT13-A1a	17 Oct 09 17 Dec 09	17 Dec 10 17 Feb 10
3*	Air	TSP Sampler Calibration Spreadsheet for KT13-A2	17 Oct 09 17 Dec 09	17 Dec 10 17 Feb 10
4		TSI DustTrak Model 8520 (Serial No. 21060)	18 Jun 09	18 Jun 10
5		TSI DustTrak Model 8520 (Serial No. 23080)	18 Jun 09	18 Jun 10
6		TSI DustTrak Model 8520 (Serial No. 23079)	18 Jun 09	18 Jun 10
7		Cesva SC-20c Sound Level Meter (Serial No. T212509)	28 Apr 09	28 Apr 10
8		Cesva CB-5 Acoustical Calibrator (Serial No. 030934)	28 Apr 09	28 Apr 10
9		Bruel & Kjaer Integrating Sound Level Meter 2238 (Serial No. 2285762)	30 Apr 09	30 Apr 10
10	Noise	Bruel & Kjaer Integrating Sound Level Meter 2238 (Serial No. 2285690)	30 Apr 09	30 Apr 10
11		Bruel & Kjaer Acoustical Calibrator 4231 (Serial No. 2292168)	28 Apr 09	28 Apr 10
12		Bruel & Kjaer Acoustical Calibrator 4231 (Serial No. 2326408)	28 Apr 09	28 Apr 10
13		YSI 550A (Serial No. 05F2063AZ)	17 Oct 09	17 Jan 10
14	Water	Hanna HI98107 (Serial No.: S411364)	21 Oct 09	21 Jan 10
15	, ator	Turbidimeter HACH 2100p (Serial No. 08070C031408)	27 Oct 09	27 Jan 10
16		Hand Refractometer ATAGO (Serial No. 289468)	21 Oct 09	21 Jan 10

Note: *Calibration certificates will only provide when monitoring equipment is re-calibrate or new. The rest of the calibration certificates could be referred to the previous EM&A monthly report (July, October and November 2009)

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : No.1 Ma On Kong Village Location ID : ASR15 (A2)							lext Calibra T	Calibration: 1 ation Date: 1 Fechnician: N				
					CONE	DITIO	ONS					
		Sea Level Tem	Pressure perature	· ·		1023.4 12.9			Corrected Pressure (mm Hg) 767 Temperature (K)			
				С	ALIBRAT	ION	ORIFICE					
				Make-> Model->	TISCH TE-5025	A			Qstd Slope -> d Intercept ->	2.01546 -0.02851		
					CALIB	BRA'	TION					
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	l (chart)		IC corrected					
18 13 10 7 5	5.4 4.2 3.3 2.3 1.2	5.4 4.2 3.3 2.3 1.2	10.8 8.4 6.6 4.6 2.4	1.687 1.490 1.322 1.106 0.803	51 43 35 25 15		53.42 45.04 36.66 26.19 15.71	2 Slope = 43.4768 Intercept = -20.3094 Corr. coeff. = 0.9975				
Calculation Qstd = 1/m IC = I[Sqrti Qstd = sta IC = correc I = actual o m = calibra b = calibra	[Sqrt(H20 (Pa/Pstd)(Indard flow Sted chart Shart respondent Stor Qstd s	Tstd/Ta)] / rate respones onse slope	Tstd/Ta))	i-b]	00 04 05 05 02 01 01).00 -).00 -).00 -).00 -).00 - 0.00 - 0.00	000	0.500	ATE CHART y = 43.477x - 20			

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Location II	D :	No.68 Ho ASR14 (A		ge		Next Calibr	Calibration: 17-Dec-09 ration Date: 17-Feb-10 Fechnician: Mr. Ben Tam
					CONDIT		
		Sea Level Tem	Pressure perature	· · ·	1023.4 12.9		Corrected Pressure (mm Hg) 767.55 Temperature (K) 286
				С	ALIBRATIO	N ORIFICE	
				Make-> Model->	TISCH TE-5025A		Qstd Slope -> 2.01546 Qstd Intercept -> -0.02851
					CALIBR	ATION	
Plate		H2O (R)	H20	Qstd (m3/min)	 (chart)	IC	
<u>No.</u> 18 13 10 7 5	(in) 5.4 4.1 2.9 2 1.2	(in) 5.4 4.1 2.9 2 1.2	(in) 10.8 8.2 5.8 4 2.4	1.687 1.472 1.240 1.032 0.803	(chart) 51 41 34 25 15	corrected 53.42 42.95 35.61 26.19 15.71	REGRESSION Slope = 41.7236 Intercept = -17.2460 Corr. coeff. = 0.9981
IC = I[Sqrt Qstd = sta IC = correc I = actual o m = calibra b = calibra Ta = actua Pstd = actua Pstd = actua I/m((I)[Scontm = samplb = sampl	n[Sqrt(H2C (Pa/Pstd)(ndard flow cted chart chart respo ator Qstd s tor Qstd ir al temperature ual pressu equent ca qrt(298/Ta ler slope ler intercep	v rate respones onse slope ntercept ture during re during c <i>lculation c</i> v)(Pav/760	calibration alibration	on (deg K) ו (mm Hg)	60.00 50.00 40.00 900.05 40.00 90.00 90.00 0.00		FLOW RATE CHART
I = chart re Tav = daily Pav = daily	, average		е			0.000	0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)



Appendix F

Event and Action Plan

Event/Action Plan for Air Quality

EVENT	ACTION													
	Contractor's ET leader	IEC	ER	Contractor										
ACTION LEVEL														
1. Exceedance for one sample	 Identify source Inform IEC, ER and Contractor Repeat measurement to confirm findings Increase monitoring frequency to daily 	 Check monitoring data submitted by Contractor's ET leader Check Contractor's working method 	1. Notify Contractor	 Rectify any unacceptable practice Amend working methods if appropriate 										
 Exceedance for two or more consecutive samples 	 Identify source Inform IEC, ER and Contractor Repeat measurement to confirm findings Increase monitoring frequency to daily Discuss with IEC, Contractor and ER on remedial actions required If exceedance continue, arrange meeting with IEC, ER and Contractor If exceedance stops, cease additional monitoring 	 Checking monitoring data submitted by Contractor's ET leader. Check Contractor's working method Discuss with Contractor's ET leader and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measures properly implemented 	 Submit proposals for remedial actions to IEC and ER within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 										
LIMIT LEVEL														
 Exceedance for one sample 	 Identify source Inform IEC, ER, EPD and Contractor Repeat measurement to confirm findings Increase monitoring frequency to daily Assess effectiveness of Contractor's remedial actions and kept IEC, EPD and ER informed of the results 	 Check monitoring data submitted by Contractor's ET leader Check Contractor's working method Discuss with Contractor's ET leader and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Audit implementation of remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor Ensure remedial measures properly implemented 	 Take immediate action to avoid for the exceedance Submit proposals for remedial actions to IEC and ER within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 										
2. Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD Identify source Repeat measurement to confirm findings Increase monitoring frequency to daily Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results If exceedance stops, cease additional monitoring 	 Discuss amongst ER, Contractor's ET leader and Contractor on the potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly Audit the implementation of remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor In consultation with IEC, agree with the Contractor on the remedial measures to be implemented Ensure remedial measures properly implemented If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid for the exceedance Submit proposals for remedial actions to IEC and ER within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abate. 										



EVENT	ACTION													
EVENT	CONTRACTOR'S ET LEADER	IEC	ER	Contractor										
Action Level	 Notify IEC, Contractor and ER Carry out investigation Report the results of investigation to the IEC, Contractor and ER Discuss with the Contractor and formulate remedial measures Double monitoring frequency Check compliance to Action/Limit Levels after application of mitigation measures 	 Review the analysed results submitted by the Contract's ET leader Review the proposed remedial measures by the Contractor and advise the ER accordingly Review the implementation of remedial measures 	 Confirm receipt of notification of complaint in writing Notify Contractor Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented 	 Submit noise mitigation proposals to ER and IEC Implement noise mitigation proposals 										
Limit Level	 Notify IEC, ER, EPD and Contractor Identify Source Repeat measurement to confirm findings Increase monitoring frequency Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented Inform IEC, ER and EPD the causes & actions taken for the exceedances Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results If exceedance stops, cease additional monitoring 	 Discuss amongst ER, Contractor's ET leader and Contractor on the potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly Audit the implementation of remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated 										

Event/Action Plan for Construction Noise Monitoring

Event and Action Plan for Water Quality

Event	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	Repeat in-site measurement to confirm findings; Identify Source(s) of impact; Inform IEC an Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance	Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented;	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check al plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures.
Action level being exceeded by more than one consecutive sampling days	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC on the proposed mitigation measures; Made agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level.	Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the R accordingly Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contract to critically review the working methods; Made agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures/
Limit level being exceeded by more than one consecutive sampling days	Repeat in-situ measurement to confirm fundings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the Monitoring frequency to daily until no exceedance of Limit level for two consecutive days.	Discuss with ET and Contractor on the mitigation measures Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level.	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities.



	ACTION			
EVENT	ET Leader	IEC	Engineer	Contractor
ACTION LEVEL REACHED	 Carry out investigation Review results and assess whether amendment to action level is appropriate Report the results of investigation to the IEC Notify Contractor and Engineer Discuss with the Contractor and formulate remedial measures Repeat survey to confirm results 	 Review the analysed results submitted by ET Review the proposed remedial measures by the Contractor and advice the Engineer accordingly Supervise implementation of remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures for the analysed problem Ensure remedial measures properly implemented 	 Take immediate action to avoid further problem Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control
LIMIT LEVEL REACHED	 Carry out investigation Review results and assess whether amendment to limit level is appropriate Report the results of investigation to the IEC Notify Contractor and Engineer Discuss with the Contractor and formulate remedial measures Repeat survey to confirm results 	 Review the analysed results submitted by ET Review the proposed remedial measures by the Contractor and advice the Engineer accordingly Supervise implementation of remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures for the analysed problem Ensure remedial measures properly implemented Issue instruction to stop the relevant portion of the works until the problem is abated (construction period only). 	 Take immediate action to avoid further problem Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the Engineer until the problem is abated (construction period only)

Event/Action Plan for Ecology



EVENT		ACT	FION	
EVENI	ET Leader	IEC	ER	Contractor
Action Level	Notify IEC and Contractor to carry out investigation Report reasons of structural damage or instability to the IEC and Contractor Discuss with the Contractor and formulate remedial measures Increase monitoring frequency to once per week to check mitigation	Review report of structural damage or instability by the ET. Review proposed remedial measures by the Contractor and advise the ER and Antiquities and Monuments Office (AMO) accordingly Supervise the implementation of remedial measures, with approval	Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures and to notify and seek approval from AMO. Ensure remedial measures are properly implemented.	Notify AMO concerning the damage or structural instability of the cultural heritage resources Submit proposals for repair of damage to cultural heritage resources to AMO for approval and to implement approved measures.
Limit Level	Notify IEC and Contractor to carry out investigation and to stop construction work within 100m of cultural heritage resource to avoid further impact until AMO are satisfied that the relevant structure has been repaired or stabilized to an acceptable level. Report reasons of continued structural damage or instability to the IEC and Contractor Discuss with the Contractor and formulate remedial measures Increase monitoring frequency to daily to check mitigation effectiveness	from AMO. Review report of structural damage or instability by the ET. Review proposed remedial measures by the Contractor and advise the ER and Antiquities and Monuments Office (AMO) accordingly. Supervise the implementation of remedial measures, with approval from AMO.	Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures and to notify and seek approval from AMO. Ensure remedial measures are properly implemented.	To carry out investigation and to stop construction work within 100m of cultural heritage resource to avoid further impact until AMO are satisfied that the relevant structure has been repaired or stabilized to an acceptable level. Propose remedial measures for the repair and stabilization of cultural heritage resources, up to liaison of moving and rebuilding the relevant structure with the approval of owner (usually the clan members) and AMO.

Event and Action Plan for Cultural Heritage



Action Level	Environmental Team Leader (ETL)	Independent Evnironmental Checker (IEC)	Engineer's Representative (ER)	Contractor
Non-conformity on one occasion	 Identify source Inform the IEC and the ER Discuss remedial actions with the IEC, the ER and the Contractor Monitor remedial actions until rectification has been completed 	 Check report Check the Contractor's working method Discuss with the ER and the Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures 	 Notify the Contractor Ensure remedial measures are properly implemented 	 Amend working methods Rectify damage and undertake remedial measures or any necessary replacement
Repeated Non-conformity	 Identify source Inform the IEC and the ER Increase monitoring (site audit) frequency Discuss remedial actions with the IEC, the ER and the Contractor Monitor remedial actions until rectification has been completed If exceedance stops, cease additional 	 Check report Check the Contractor's working method Discuss with the ER and the Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures Supervise implementation of remedial measures 	 Notify the Contractor Ensure remedial measures are properly implemented 	 Amend working methods Rectify damage and undertake remedial measures or any necessary replacement

Event and Action Plan for Landscape and Visual Impact - Construction Phase

monitoring (site audit)



Appendix G

- (a) Impact Environmental Monitoring Data
- (b) Graphic Plot of Monitoring
 - 1. Construction Noise
 - 2. Air Quality
 - 3. Water Quality

DSD CONTRACT NO. DC/2007/17 Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

24-Hour TSP Monitoring Results

						STAND	ARD							BLANK		S	AMPLE OF FILTER P	APER	Action	Action	
DATE	SAMPLE		ELAPSED TIME			READING		AVERAGE		FLOW	AIR	SAMPLE		WEIGHT (g)			WEIGHT (g)		Dust 24-Hr TSP		Limit Level
	NUMBER	INITIAL	FINAL	(min)	MIN	MAX	CHART READING	TEMP (°C)	PRESS (hPa)	RATE (m ³ /min)	VOLUME (std m ³)	d NUMBER	INTIAL	FINAL	DIFF	INITIAL	FINAL	DUST COLLECTION	in Air (µg/m³)	(µg/m³)	(µg/m³)
KT13(A1(a)))																				
				Date	e of Cal	libratio	n: 17-0	ct-2009 N	ext Calib	ration I	Date: 17-1	Dec-2009	9 Cal Gra	ph Slope =	: 40.3086 II	ntercept = -1	4.6208				
				Date	e of Cal	ibratio	n: 17-D	ec-2009 N	ext Calib	ration I	Date: 17-	Feb-201) Cal Gra	ph Slope =	: 41.7236 II	ntercept = -1	7.2460				
1-Dec-09	21105	2647.98	2672.08	1446.00	36	38	37.0	19.0	1021.5	1.29	1871	NA	2.8809	2.8805	-0.0004	2.8316	2.9172	0.0856	46	144	260
7-Dec-09	21139	2672.08	2696.17	1445.40	36	38	37.0	17.9	1017.7	1.29	1870	NA	2.8791	2.8790	-0.0001	2.857	2.9185	0.0615	33	144	260
12-Dec-09	21199	2696.17	2720.41	1454.40	35	38	36.5	20.4	1017.8	1.28	1858	NA	2.8780	2.8781	0.0001	2.8874	2.9508	0.0634	34	144	260
18-Dec-09																			Power failure	144	260
24-Dec-09																			Power failure	144	260
KT13(A2)																					
				Date	e of Cal	ibratio	n: 17-0	ct-2009 N	ext Calib	ration I	Date: 17-1	Dec-2009	9 Cal Gra	ph Slope =	: 42.8773 In	ntercept = -1	9.6021				
				Dat	e of Ca	libratio	on: 17-D	ec-009 Ne	ext Calibr	ation D	ate: 17-I	Feb-2010	Cal Gra	ph Slope =	43.4768 In	tercept = -20	0.6094				
1-Dec-09	21106	2605.94	2629.87	1435.80	36	38	37.0	19.0	1021.5	1.33	1913	NA	2.8809	2.8805	-0.0004	2.8481	2.9635	0.1154	61	141	260
7-Dec-09	21143	2629.87	2653.58	1422.60	36	38	37.0	17.9	1017.7	1.33	1896	NA	2.8803	2.8799	-0.0004	2.8543	2.9100	0.0557	30	141	260
12-Dec-09	21200	2653.58	2677.94	1461.60	36	38	37.0	20.4	1017.8	1.33	1942	NA	2.8790	2.8781	-0.0009	2.9057	2.9405	0.0348	18	141	260
18-Dec-09	21197	2677.94	2701.48	1412.40	36	38	37.0	12.5	1025.8	1.34	1895	NA	2.8781	2.8784	0.0003	2.8907	2.9267	0.0360	19	141	260
24-Dec-09	21249	2701.48	2725.70	1453.20	36	38	37.0	15.7	1016.8	1.33	1937	NA	2.8781	2.8778	-0.0003	2.9034	2.9605	0.0571	30	141	260

DSD Contract No. DC/2007/17 -

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

	D	rainage Imp	rovement W	/orks in Che	ung Po, Ma On Kong,	Yuen Kong San Ts Summary of Wa					nd Seweraç	je at Tseng T	au Chung T	suen, Tuen M	un				AUES
Date	27-No	ov-09				Summary of Wa	iter Qualit	y wormoning	Results - K	15									
Location	Time	Depth (m)	21.5	o (oC)	DO (mg/L) 3.19 2.17	42.5		Turbidi 4.3	ty (NTU)	Sali 0		p 7.2		4 S	s	Amm <0.01	onia N	2i 13	inc
W1	14:00	0.10	21.5	21.5	3.15 3.17	41.3	41.9	4.2	4.3	0	0.0	7.2	7.2	4	4.0	< 0.01	0.01	13	13.0
W2	13:50	0.10	21.0 21.0	21.0	4.23 4.18 2.55	55.9 55.3	55.6	4.6	4.6	0	0.0	7.5	7.5	4	4.0	<0.01	0.01	18 18	18.0
W3	13:40	0.10	21.2	21.2	3.55 3.49 3.52	47.7 47.0	47.4	3.3	3.3	0	0.0	7.3	7.3	5	5.0	<0.01 <0.01	0.01	16 16	16.0
W4	13:35	0.10	20.8 20.8	20.8	3.73 3.67 3.70	49.9 49.1	49.5	4.0 3.8	3.9	0	0.0	7.6	7.6	5	5.0	<0.01 <0.01	0.01	14 14	14.0
W5	13:25	0.10	21.5 21.5	21.5	3.15 3.05 3.10	41.2 40.3	40.8	6.9 6.8	6.9	0	0.0	7.7	7.7	7	7.0	0.24 0.24	0.24	15 15	15.0
W6	13:15	0.20	21.6 21.6	21.6	3.67 3.64	47.9 47.2	47.6	27.5 27.6	27.6	0	0.0	7.9 7.9	7.9	45 45	45.0	0.13	0.13	42 42	42.0
Date	30-No	ov-09																	
Location		Depth (m)	Temp 20.5	o (oC)	DO (mg/L)	DOS (* 30.2		Turbidit 3.9	ty (NTU)	0 Sali		p 7.4		19	s	0.02	onia N	2i 12	inc
W1	14:15	0.10	20.5	20.5	2.94 2.96	29.7 37.5	30.0	3.8 4.3	3.9	0	0.0	7.4 7.9	7.4	19	19.0	0.02	0.02	12 12 10	12.0
W2	14:10	0.10	20.2 21.0	20.2	3.80 3.84 3.16 2.14	36.8 33.1	37.2	4.3	4.3	0	0.0	7.9	7.9	4 5	4.0	0.02 0.02 0.02	0.02	10	10.0
W3	13:55	0.10	21.0	21.0	3.11 3.14	32.5	32.8	3.5	3.5	0	0.0	7.2	7.2	5	5.0	0.02	0.02	10	10.0
W4	13:50	0.10	21.2	21.2	4.03 4.02	43.5 42.7	43.1	4.0	4.0	0	0.0	7.5	7.5	4	4.0	0.02	0.02	10	10.0
W5	13:35	0.10	21.4 21.4	21.4	3.37 3.33 3.35	35.7 35.0	35.4	5.9 5.8	5.9	0	0.0	8	8.0	10	10.0	0.02	0.02	11	11.0
W6	13:25	0.20	20.9 20.9	20.9	2.97 2.94 2.96	30.4 29.9	30.2	26.7 26.4	26.6	0	0.0	7.7	7.7	83 83	83.0	<0.01 <0.01	0.01	40 40	40.0
Date	2-De	c-09																	
Location	Time	Depth (m)	Temp 19.7	o (oC)	DO (mg/L) 3.42 3.40	DOS (9 34.6		Turbidit 3.5	ty (NTU)	Sali 0		p 7.1	H 7.1	8 8	s	0.3	onia N	Zi 14	14.0
W1	14:50	0.10	19.7 19.2	19.7	3.37 3.40	34.0	34.3	3.4	3.5	0	0.0	7.1	7.1	8	8.0	0.3	0.30	14 14	14.0
W2	14:45	0.10	19.2	19.2	3.62 3.05	36.7 32.4	37.0	3.9	4.0	0	0.0	6.8 7.5	6.8	8	8.0	0.3	0.30	14	14.0
W3	14:30	0.10	20.2 20.2 20.5	20.2	3 3.03	31.6 44.2	32.0	4.1 3.7	4.1	0	0.0	7.5	7.5	9	9.0	0.29 0.28	0.29	14	14.0
W4	14:25	0.10	20.5	20.5	4.17 4.20	44.2 43.2 38.6	43.7	3.6	3.7	0	0.0	7.9	7.9	9	9.0	0.28	0.28	14	14.0
W5	14:15	0.10	20.8	20.8	3.64 3.08	37.9 35.0	38.3	6.1	6.1	0	0.0	7.9	7.9	9 44	9.0	0.29	0.29	14 14 29	14.0
W6	14:05	0.20	20.4	20.4	3.42 3.38 3.40	35.0 34.3	34.7	27.4	27.2	0	0.0	7.4	7.4	44	44.0	0.13	0.13	29 29	29.0
Date	4-De		0			•			<i>i</i>			-			_				
Location W1	Time 14:15	Depth (m) 0.10	18.6	18.6	DO (mg/L) 3.76 3.74	DOS (* 38.5	%) 38.2	4.1	ty (NTU) 4.1	Sali 0	0.0	7.5	H 7.5	3	S 3.0	0.37	0.37	12	12.0
			18.6 18.9	18.6	3.72 3.74 4.15 4.14	37.9 42.5	42.1	4.0 3.5		0		7.5		3		0.37 0.36	0.37	12 12	12.0
W2	14:00	0.10	18.9 20.1		4.12 3.77 3.76	41.7 39.4		3.4 3.6	3.5	0	0.0	7.3 7.9	7.3	2	2.0	0.36		12 12	12.0
W3	13:40	0.10	20.1 19.3	20.1	3.75 3.76	38.6	39.0	3.5 3.8	3.6	0	0.0	7.9	7.9	3	3.0	0.38	0.38	12	
W4	13:35	0.10	19.3 19.5		3.9 3.92	40.8 45.6	41.2	3.7 5.9	3.8	0	0.0	7.7 8.2	7.7	<2 4	2.0	0.41 0.42	0.41	13 12	13.0
W5	13:25	0.10	19.8 20.3	19.7	4.23 4.20	44.9 33.2	45.3	5.7 27.5	5.8	0	0.0	8.2 7.6	8.2	4 80	4.0	0.42	0.42	12 52	12.0
W6	13:15	0.20	20.3	20.3	3.08 3.05	32.5	32.9	27.2	27.4	0	0.0	7.6	7.6	80	80.0	0.15	0.15	52	52.0
Date	7-De		T	- (-0)	D0 (=== (!)	D05 (/	0()	Truck i dit		C-14	-14				c	A	- min NI		
Location W1	Time 14:40	Depth (m) 0.10	16.8	o (oC) 16.8	DO (mg/L) 4.02 3.99	42.6	42.1	3.9	3.9	0	0.0	7.4	н 7.4	15	S 15.0	0.26	0.26	18	inc 18.0
W2	14:35	0.10	16.8 17.2	17.2	3.95 4.53 4.51	41.5 53.6	53.3	3.8 4.2	4.2	0	0.0	7.4	7.6	15	14.0	0.26	0.21	18 17	17.0
W3	14:20	0.10	17.2 16.9	16.9	3.53 3.51	52.9 36.7	36.4	4.1 4.6	4.6	0	0.0	7.6	7.5	14 35	35.0	0.21 0.55	0.55	17 36	36.0
W4	14:15	0.10	16.9 16.9	16.9	3.88 3.86	36.0 41.0	40.6	4.5 3.5	3.5	0	0.0	7.5	7.9	35 18	18.0	0.55	0.28	36 22	22.0
W5	13:55	0.10	16.9 17.5	17.5	3.84 4.16 4.14	40.2 48.9	48.4	3.4 6.7	6.7	0	0.0	7.9	7.7	18 18	18.0	0.28	0.26	22 18	18.0
W6	13:45	0.20	17.5 17.3	17.3	3.26 3.23	47.9 34.6	34.2	6.6 23.2	23.2	0	0.0	7.7	7.9	18 282	282.0	0.26	0.57	18 264	264.0
	10.10	0.20	17.3	11.0	3.19 3.23	33.7	01.2	23.1	20.2	0	0.0	7.9	,.,	282	202.0	0.57	0.07	264	204110
Date Location	9-De Time	c-09 Depth (m)	Temp	o (oC)	DO (mg/L)	DOS (*	%)	Turbidit	ty (NTU)	Sali	nity	p	н	s	s	Amm	onia N	Zi	inc
W1	13:50	0.10	18.5 18.5	18.5	3.75 3.69 3.72	39.7 38.9	39.3	3.2 3.1	3.2	0	0.0	7.2	7.2	6	6.0	0.24 0.24	0.24	22 22	22.0
W2	13:45	0.10	19.1 19.1	19.1	4.16 4.13	45.2 44.4	44.8	4.3 4.3	4.3	0	0.0	7.8 7.8	7.8	16 16	16.0	0.34	0.34	37 37	37.0
W3	13:30	0.10	19.3 19.3	19.3	3.44 3.4 3.4	36.1 35.2	35.7	3.9	3.9	0	0.0	7.3	7.3	7	7.0	0.25	0.25	22 22	22.0
W4	13:25	0.10	18.8	18.8	4.25 4.19 4.22	47.8 46.9	47.4	3.7 3.6	3.7	0	0.0	7.5	7.5	7	7.0	0.23	0.23	25 25	25.0
W5	13:15	0.10	19.1	19.1	4.37 4.33 4.35	50.3 49.7	50.0	5.8	5.8	0	0.0	7.9	7.9	6	6.0	0.23	0.21	16 16	16.0
W6	13:05	0.20	19.5	19.3	3.39 3.35 3.37	37.4 36.8	37.1	24.2 23.7	24.0	0	0.0	7.7	7.7	148 148	148.0	0.34	0.34	88	88.0
	** -	00	17.2		0.00	30.6		23.1	1	U		1.7	1	140		0.34		00	·
Date Location	11-De Time	ec-09 Depth (m)		o (oC)	D0 (mg/L)	DOS (%)		y (NTU)	Sali	nity	p	н		s		onia N		inc
W1	13:55	0.10	19.4 19.4	19.4	4.46 4.42 4.44	46.8 46.3	46.6	4.2	4.3	0	0.0	7.6	7.6	5	5.0	0.12	0.12	<10 <10	10.0
W2	13:50	0.10	19.5 19.5	19.5	4.71 4.62 4.67	50.1 49.0	49.6	9.5 9.4	9.5	0	0.0	7.2	7.2	3	3.0	0.08	0.08	<10 <10	10.0
W3	13:30	0.10	19.1 19.1	19.1	3.97 3.91 3.94	42.7 41.9	42.3	8.3 8.2	8.3	0	0.0	7.6	7.6	7	7.0	0.08	0.08	<10 <10	10.0
W4	13:20	0.10	19.3 19.3	19.3	3.07 3.04	33.4 32.6	33.0	6.3 6.1	6.2	0	0.0	7.8	7.8	2	2.0	0.08	0.08	<10 <10	10.0
W5	13:15	0.10	19.9 19.9	19.9	4.14 4.1 4.12	44.2 43.6	43.9	7.9 7.4	7.7	0	0.0	6.5 6.5	6.5	27 27	27.0	0.08	0.08	16 16	16.0
W6	13:00	0.20	20.0 20.0	20.0	3.9 3.87 3.89	42.0 41.5	41.8	24.7 23.9	24.3	0	0.0	7.6	7.6	37 37	37.0	0.04	0.04	24 24	24.0
Date	14-De	ec-09																	
Location	Time	Depth (m)	Temp 20.5	o (oC)	DO (mg/L)	DOS (* 43.8		Turbidit 5.9	ty (NTU)	Sali 0	,	7.5		22	S	0.48	onia N	2i	inc
W1	14:55	0.10	20.5	20.5	4.03 4.07	42.9	43.4	5.8	5.9	0	0.0	7.5	7.5	22	22.0	0.48	0.01	16	16.0
W2	14:50	0.10	20.9	20.9	4.42 4.37 2.44	46.7 46.1	46.4	6.2 6.2	6.2	0	0.0	7.6	7.6	22 22 20	22.0	0.43	0.43	20 20 20	10.0
W3	14:30	0.10	20.5	20.5	3.64 3.61 3.63	39.2 38.6	38.9	9.2	9.0	0	0.0	7.4	7.4	28	28.0	0.52	0.52	20	20.0
W4	14:25	0.10	20.3 20.3	20.3	3.77 3.74	40.3 39.1	39.7	6.5 6.3	6.4	0	0.0	7.7	7.7	32	32.0	0.5	0.50	19 19	19.0
W5	14:20	0.10	20.6 20.6	20.6	4.26 4.18 4.22	44.7 43.6	44.2	7.7	7.6	0	0.0	7.3	7.3	25 25	25.0	0.5	0.50	20 20	20.0
W6	14:05	0.20	20.8 20.8	20.8	3.42 3.35 3.39	37.6 36.3	37.0	21.7 21.3	21.5	0	0.0	7.8 7.8	7.8	34 34	34.0	0.31	0.31	51 51	51.0
Date	16-De	ec-09																	
Location	Time	Depth (m)	Temp 16.8	o (oC)	DO (mg/L)	DOS (* 39.2		Turbidit 7.4	ty (NTU)	Sali 0		p 7.2		7 S	s	Amm 0.35		25 Zi	inc
W1	15:05	0.10	16.8 17.3	16.8	3.6 3.01	39.2 38.7 40.8	39.0	7.2	7.3	0	0.0	7.2	7.2	7	7.0	0.35	0.35	25 25 15	10.0
W2	15:00	0.10	17.3	17.3	3.87 3.80	40.8 41.1 32.5	41.0	5.5	5.7	0	0.0	7.1 7.5	7.1	7	7.0	0.37 0.37 0.48	0.37	15 15 30	10.0
W3	14:40	0.10	16.5 16.5	16.5	2.93 2.96	31.7	32.1	6.8 6.7 8.2	6.8	0	0.0	7.5	7.5	6 6 9	6.0	0.48	0.48	30	30.0
W4	14:35	0.10	16.8 16.8 16.6	16.8	2.64 2.69 4.06	29.3 30.0 42.8	29.7	8.2 8.0 9.7	8.1	0	0.0	7.8 7.8 7.8	7.8	9	9.0	0.71 0.71 0.52	0.71	37 37 32	37.0

16.6 16.6 17.0 17.0

16.6

17.0

4.06 3.98

3.58 3.52 4.02

3.55

14:25

14:20

W5

W6

0.10

0.20

42.8 41.9

38.4 37.6 42.4

38.0

9.7 9.3

26.1 24.9 9.5

25.5

0.0

0.0

0

7.8

8.0

7.8

8

8.0

92.0

92 92 0.52

< 0.01

0.52

0.01

32.0

177.0

DSD Contract No. DC/2007/17 -

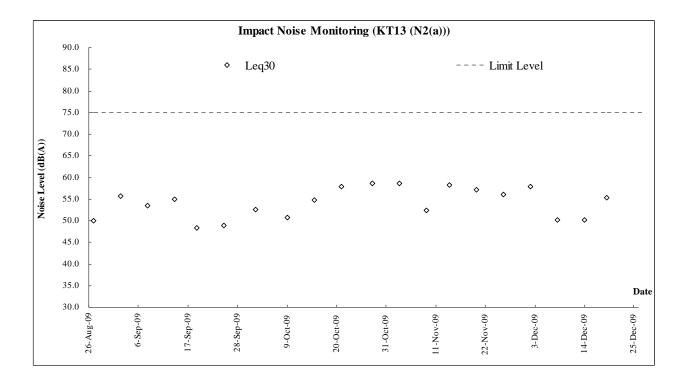
Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen and Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun Summary of Water Quality Monitoring Results - KT13

Date	18-D	ec-09																
Location	Time	Depth (m)	Temp	o (oC)	DO (mg/L)	DOS	(%)	Turbidit	ty (NTU)	Sali	nity	pН	9	S	Ammo	onia N	Zi	inc
W1	15:30	0.10	18.1 18.1	18.1	4.46 4.44	46.8 46.3	46.6	10.3	10.2	0	0.0	6.8 6.8 6.8	8	8.0	0.62	0.62	26 26	10.0
W2	15:15	0.10	17.5	17.5	4.71 4.67	50.1 49.0	49.6	13.1 13.0	13.1	0	0.0	6.8 6.8 6.8	8	8.0	0.62	0.62	25 25	10.0
W3	15:00	0.10	17.9 17.9	17.9	3.97 3.91 3.94	42.7 41.9	42.3	26.4 25.8	26.1	0	0.0	6.9 6.9 6.9	8	8.0	0.6	0.60	27 27	27.0
W4	14:55	0.10	18.3 18.3	18.3	3.07 3.04	33.4 32.6	33.0	6.3 6.1	6.2	0	0.0	7.1 7.1	7	7.0	0.5	0.50	22	22.0
W5	14:35	0.10	18.5 18.5	18.5	4.14 4.12	44.2 43.6	43.9	7.9	7.7	0	0.0	6.9 6.9 6.9	8	8.0	0.51	0.51	23 23	23.0
W6	14:30	0.10	17.8 17.8	17.8	3.9 3.87 3.89	42.0 41.5	41.8	24.7 23.9	24.3	0	0.0	6.8 6.8 6.8	7	7.0	0.6	0.60	23 23	23.0
Date	21-D	ec-09																
Location	Time	Depth (m)	Temp	o (oC)	D0 (mg/L)	DOS	(%)	Turbidit	ty (NTU)	Sali	nity	pН	5	S	Ammo	onia N	Zi	inc
W1	15:00	0.10	20.1 20.1	20.1	4.1 4.07	43.8 42.9	43.4	5.9 5.8	5.9	0	0.0	6.7 6.7 6.7	5	5.0	0.5	0.50	15 15	10.0
W2	14:50	0.10	19.8 19.8	19.8	4.42 4.40	46.7 46.1	46.4	6.2 6.2	6.2	0	0.0	6.9 6.9	4	4.0	0.49	0.49	16 16	10.0
W3	14:30	0.10	20.3 20.3	20.3	3.64 3.61 3.63	39.2 38.6	38.9	19.8 19.3	19.6	0	0.0	7 7.0	4	4.0	0.49	0.49	15 15	15.0
W4	14:15	0.10	19.4 19.4	19.4	3.77 3.7 3.74	40.3 39.1	39.7	6.5 6.3	6.4	0	0.0	6.9 6.9	3	3.0	0.51	0.51	16 16	16.0
W5	14:00	0.10	19.6 19.6	19.6	4.26 4.22	44.7 43.6	44.2	7.7	7.6	0	0.0	7.1 7.1	4	4.0	0.5	0.50	15 15	15.0
W6	13:50	0.10	19.5 19.5	19.5	3.42 3.35 3.39	37.6 36.3	37.0	21.7 21.3	21.5	0	0.0	6.9 6.9	5	5.0	0.52	0.52	16 16	16.0
Date	23-D	ec-09																
Location	Time	Depth (m)	Temp	(OC)	DO (mg/L)		(%)		ty (NTU)	Sali	nity	pH		s		onia N		inc
W1	15:55	0.10	20.4 20.4	20.4	3.62 3.6 3.6	39.2 38.7	39.0	16.2 15.4	15.8	0	0.0	<u>6.7</u> 6.7 6.7	<2 <2	2.0	0.01	0.01	<10 <10	10.0
W2	15:45	0.10	20.1 20.1	20.1	3.85 3.87 3.86	40.8 41.1	41.0	14.2 14.7	14.5	0	0.0	6.8 6.8 6.8	<2 <2	2.0	0.01	0.01	<10 <10	10.0
W3	15:30	0.10	19.4 19.4	19.4	2.99 2.96 2.93	32.5 31.7	32.1	30.6 29.4	30.0	0	0.0	7.1 7.1	2	2.0	0.01	0.01	<10 <10	10.0
W4	15:25	0.10	19.8 19.8	19.8	2.64 2.67	29.3 30.0	29.7	11.8 11.4	11.6	0	0.0	6.8 6.8	<2 <2	2.0	<0.01 <0.01	0.01	<10 <10	10.0
W5	15:10	0.10	19.6 19.6	19.6	4.06 3.98 4.02	42.8 41.9	42.4	9.7 9.3	9.5	0	0.0	7 7.0	<2 <2	2.0	<0.01 <0.01	0.01	<10 <10	10.0
W6	15:00	0.10	19.9 19.9	19.9	3.58 3.52 3.55	38.4 37.6	38.0	26.1 24.9	25.5	0	0.0	6.9 6.9	<2 <2	2.0	0.02	0.02	<10 <10	10.0

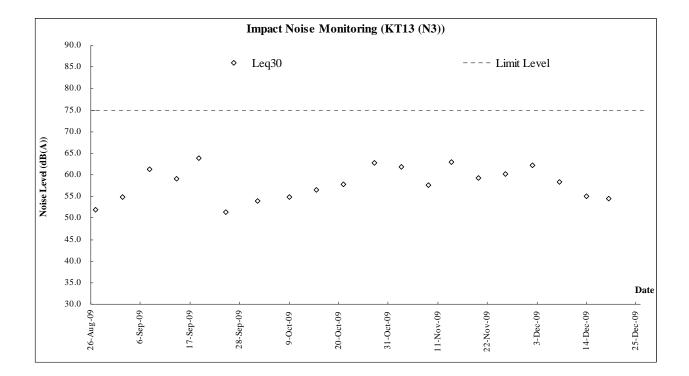


Impact Noise Monitoring (KT13 (N1(a))) 90.0 Leq30 ---- Limit Level ٥ 85.0 80.0 75.070.0 ٥ Noise Level (dB(A)) 65.0 ٥ ٥ ہ ٥ 0 60.0 0 ٥ 55.0 0 ٥ 50.0 45.0 40.0 35.0 Date 30.0 6-Sep-09 26-Aug-09 17-Sep-09 28-Sep-09 14-Dec-09 60-22-Nov-09 3-Dec-09 20-Oct-09 31-Oct-09 11-Nov-09 9-Oct-09 25-Dec-

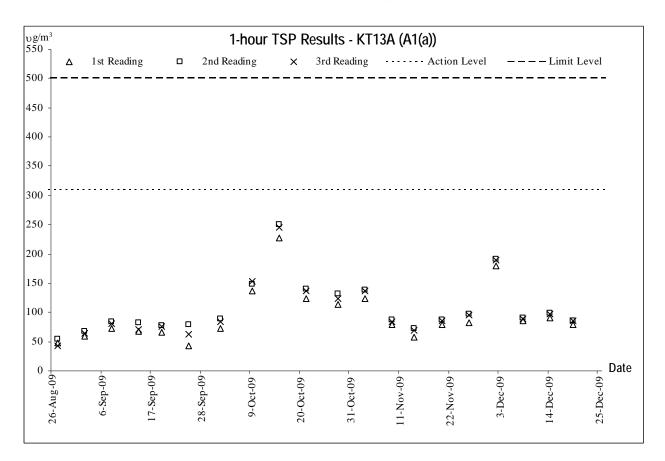




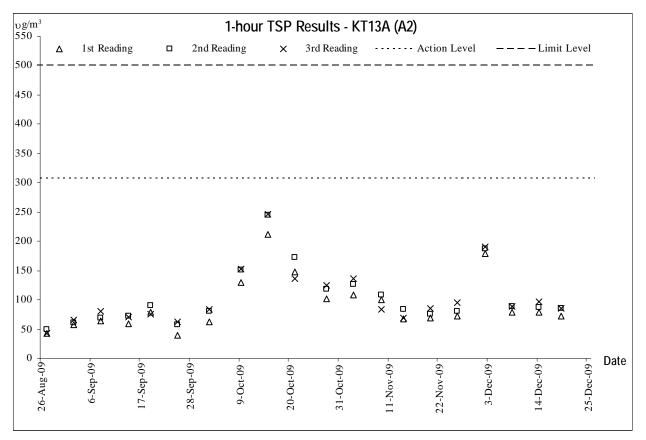




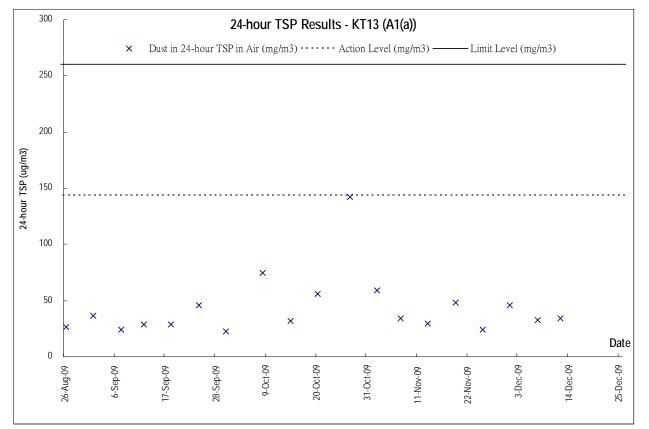




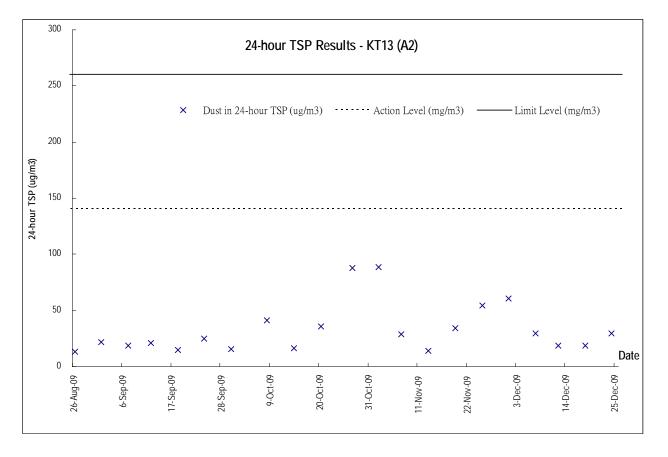
Graphic Plot of Monitoring – Air Quality



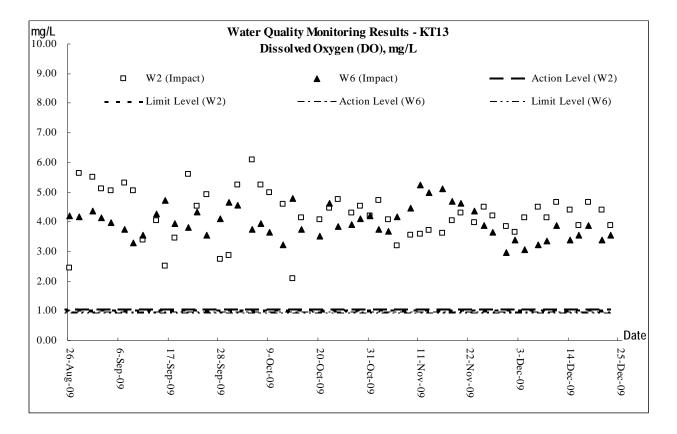




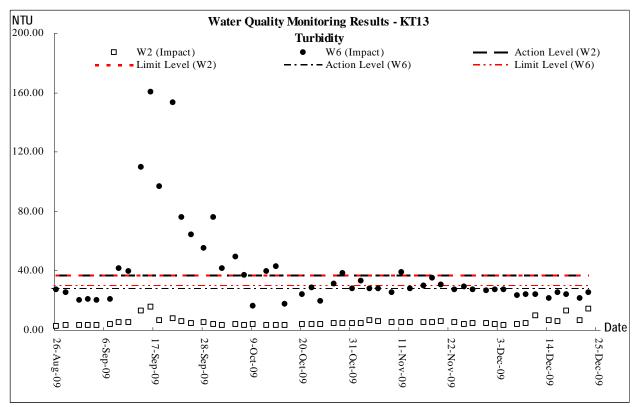
*Power failure occurred at KT13-A1(a) on 18 and 24 December 2009.

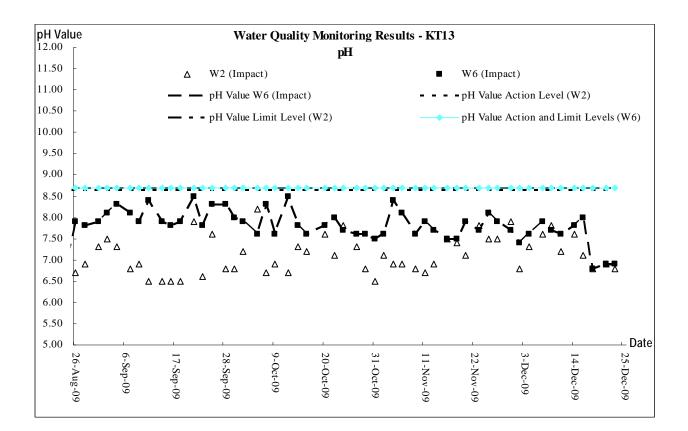




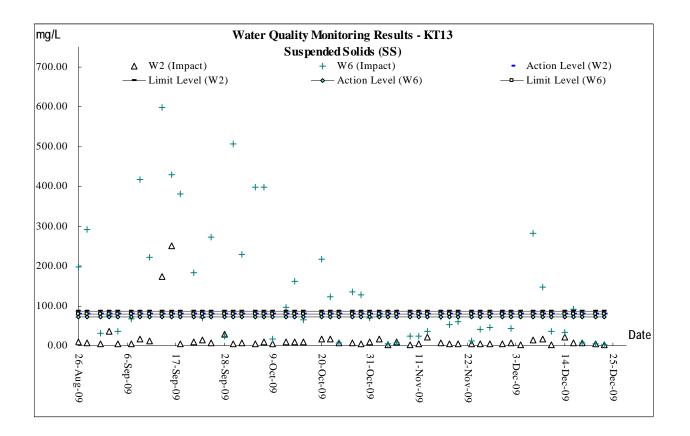


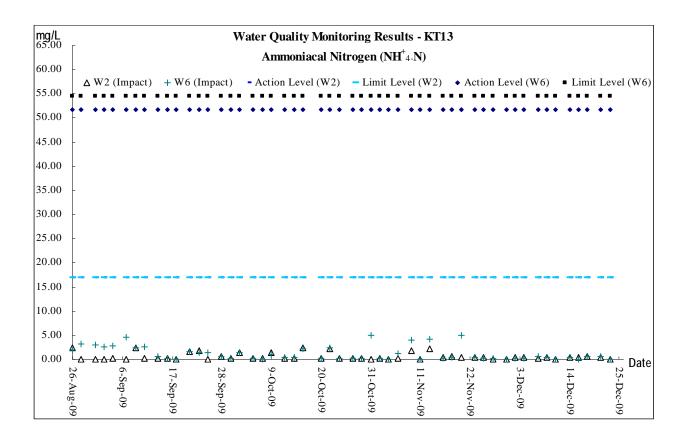
Graphic Plot of Monitoring – Water Quality



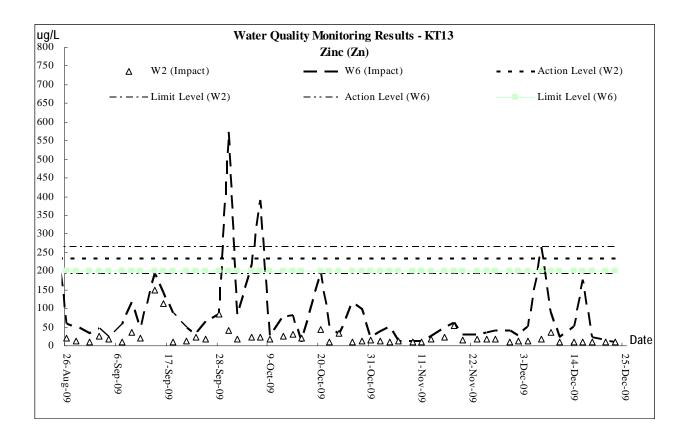


AUES





AUES





Appendix H

Photographic Records of

Ecological Monitoring of Vegetation

(Not Used)



Appendix I

Condition Survey of the Grave during Construction Phase

(Not Used)



Appendix J

Physical, Human and Cultural Landscape Resources at KT13

urrent	Situation of Physical, Hum) pue ue	Current Situation of Physical, Human and Cultural Landscape Resources at KT13, inspected on 7 and 21 December 2009	
	The physical resources th	at will be	The physical resources that will be affected during the Construction Phase and Operational Phase, together with their sensitivity to change, are	itivity to change, ar
	described below. The loc:	ations of	described below. The locations of the baseline landscape resources are mapped in Drawing no. LR-001. The Landscape Resources in direct	Resources in direc
	conflict with the Project a	re mapp	conflict with the Project are mapped together with their extent outside study boundary for integrity of information. Photo views illustrating the	views illustrating the
	landscape resources of th	e study	landscape resources of the study area are illustrated in Drawing Nos. PR-001 to 002 inclusive. For ease of reference and co-ordination between	o-ordination betwee
	text, tables and figures each landscape resources	sh landsi	cape resources is given an identity number.	
able con	npares the baseline study an	d the cu	Table compares the baseline study and the current situation for KT13: (Landscape Resources)	
Section	Identify number –	Photo	Baseline Study, Environmental Impact Assessment Final Report	Current Situation
in ElA	Landscape Resources	No	[382047/E/EIA/Issue 9]	
Report				
Drainage				
10.7.3	LR1 – River/ Stream	A1 -	There is a semi-natural drainage features (the Ma On Kong Channel) in the study area with	Minor change due to
		A 5	untrained natural upstream and partial trained downstream with a total length of 800m. The	construction work
			Channel originates from the South-West of the valley and discharge to the existing Primary	within the site
			Channel by Kam Ho Road running through and along the site area spanning across majority of the	boundary.
			river valley, together with the existing vegetations forming the central part of riparian landscape	
			network. They have medium landscape value and sensitive to change.	
Fish Pond	p			
10.7.4	LR2.1 (Fish Pond) within	A6	There are 4 numbers of fallowed fish ponds at the upstream of the Ma On Kong Channel. A chain	Minor change due to
	site boundary		of fish ponds near downstream but distant from the Channel is noted. The fish ponds cover area of	construction of
	LR2.2 (Fish Pond) outside	A7	in total 23,000 m2. Most of them are heavily colonized by aquatic plants, which attribute to their	structures within site
	site boundary		low visual quality as a water landscape element. They have low landscape value and sensitive to	boundary.
			change	A soil platform was

				created outside site boundary due to other project was noted.
Marsh				
10.7.5	LR3 (Marsh)	A8	It comprises 2 marshes at the upstream channel of the Channel. They are inundated lowland heavily colonized with wetland aquatic plants. They have low landscape value and sensitive to change.	Remain the same as the baseline
Vegetati	ion			
10.7.7	LR4 (Woodland/ Wooded Area)	A9 A10	It comprises two major communities of woodland/ wooded area. One is dense natural woodland stretching across the Conservation Area and area behind Ma On Kong and consists approximate 450 numbers of trees based on visual estimation. The trees are mainly native species and mature in size. It is dominated by <i>Schefflera octophylla, Pinus massoniana, Aporusa chinensis, Celtis sinensis, Bridelia tomentosa, Cinnamomum cmaphora, Rhus chinensis</i> and <i>Phus succedanes.</i> Another one is a natural more sparse riparian wooded area at upstream of the Channel and consists approximate 60 numbers of trees based on visual estimation. The trees are mainly pioneer species and poorer in form and maturity. It is dominated by Ficus hispide and Macaranga tanarius. They have high landscape value and sensitivity to change.	Remain the same as the baseline
10.7.8	LR5 (Orchard/ Horticultural Trees)	A11	It comprises two groups of trees at downstream below Ma On Kong and north of Ho Pui Amongst there are approximate 400 numbers of trees based on visual estimation. They are fruit trees and landscape plants of horticultural practices. It is dominated by <i>Dimocarpus longan, Delonix regian, Roystonea regia and Pachira macrocarpa</i> . For their anthropogenic and not permanent in nature, they have medium landscape value and sensitivity to change.	Remain the same as the baseline
10.7.9	LR6 (Low-Lying Agricultural Land/ Fallowed Land)	A12	It comprises fallowed land and agricultural land in low rate of uses. The vegetation is mainly grass and sedge with mosaics of shrubs approaching the Channel. It fills up the about half of the existing	Remain the same as the baseline.

			9	
			landscape within the study area. They have low landscape value and sensitivity to change.	
Sitting-C	Dut Area			
10.7.10	LR7 (Sitting-Out Area at Ma	A13	Remain the same as	
	On Kong)		hard-paved with only 3 amenity trees and on pavilion. It has low landscape value and sensitivity to	the baseline
			change.	
Landsca	pe Character Areas			
10.7.12	LCA1 (Agricultural	B1 &	This comprises fallowed land & agricultural land not in active uses. This character area is flat and	Minor change due to
	Landscape Character Area)	B2	gentle sloping in landform and vegetated with grass of various heights. It forms the majority of the	invasion of cows.
			landscape character of the entire river valley and the connecting landscape element between	Some of the grass on
	- A 01		other landscape character areas. The sensitivity to change of this area is low.	the land were
				consumed.
10.7.13	LCA2 (Woodland	B3	This is natural woodland between southern Ma On Kong and the Channel extending up to the	Remain the same as
	Landscape Character Area)		access road behind Ma On Kong. The trees are mature in size forming a close woodland	the baseline
			landscape. It is the location of egretry of conservation importance. The sensitivity to change of this	
			area is high.	
10.7.14	LCA3 (River/ Stream	B4 –	This is the main stream of the Channel in associate with its riparian vegetation. It meanders	Minor change due to
	Landscape Character Area)	B7	through the river valley landscape. It is used as a receptor of agricultural effluent from poultry farm	construction work
			around upstream, which contribute to the polluted appearance of the character area around	within site boundary
			upstream. The sensitivity to change of this area is medium.	
10.7.15	LCA4 (Fish Pond	B8	This comprises a number of fish ponds of various sizes distributed about the Channel. Most of	Minor change due to
	Landscape Area)		them are abandoned or with limited uses and colonized with aquatic plants. The sensitivity to	construction of
			change of this area is medium.	structures within site
				boundary.
				6

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

10.7.16	LCA5 (Village Landscape	B9 &	This comprises the four major village types rural settlement encompassing tai Kek, Ma On Kong,	Remain the same as
	Character Area)	B10	Ho Pui and north of Ho Pui. Except Tai Kek which is less revitalized and actively resided, all other	the baseline
			three are actively resided. This area is lightly urbanized with low rise village house. The sensitivity	
			to change of this area is low.	
10.7.17	LCA6 (Industrial Landscape	B11 &	This comprise collection of slummy-built temporary structure and open storage uses land, which	Reconstruction of
	Character Area)	B12	are characterized with metallic hoarding and used for poultry, recycling, vehicle repairing etc. The	hoarding was
			sensitivity to change of this area is low.	conducted by the land
				owner
10.7.18	LCA7 (Nullah Landscape	B13	This is the trained nullah next to Kam Ho Road. It is the primary tributary connecting and receiving	Remain the same as
	Character Area)		outflow from the Ma On Kong Channel. The area is man-made and with poor and monotonous	the baseline
			riverside vegetation. The sensitivity to change of this area is low.	

10.7.19 Visual Character

The visual quality of the river valley of Ma On Kong Channel is semi-natural based on combination of rural landscape elements including agricultural land, village houses, woodland and pond and stream and industrial landscape elements including open storage and temporary structures. Interspersed landscape elements on general flat landform with minor undulation render numerous small enclosed views. No major vista and high quality open view identified.

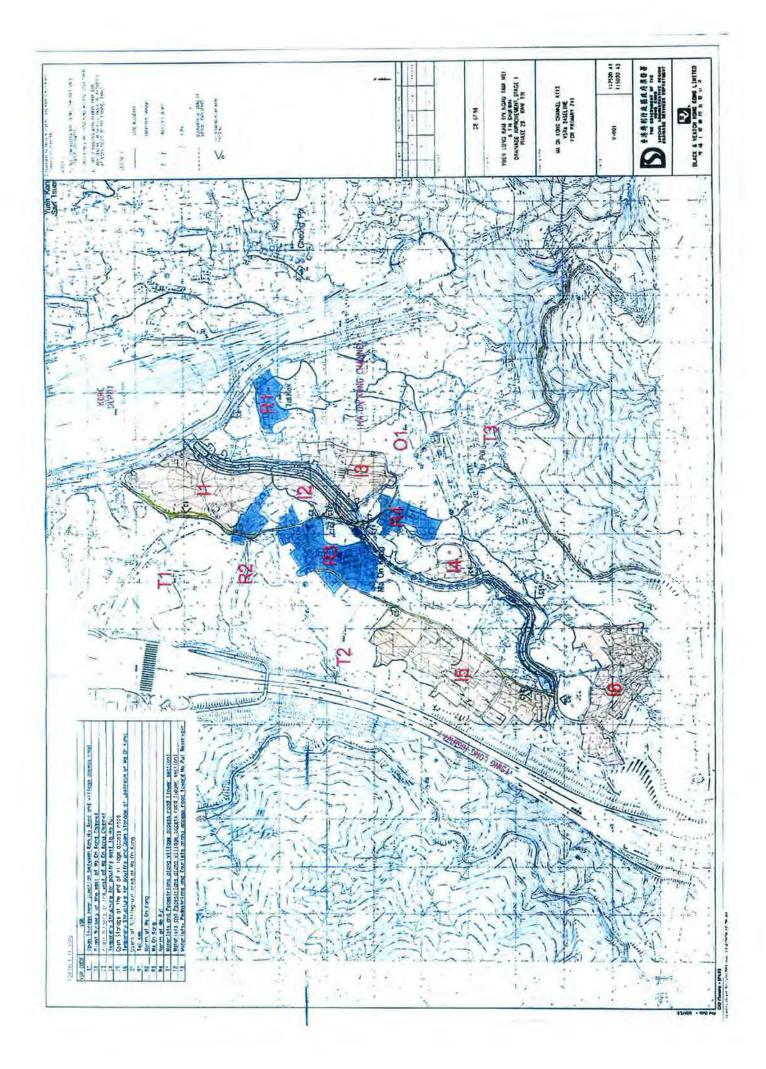
10.7.20 Visual Sensitive Receiver (VSR)

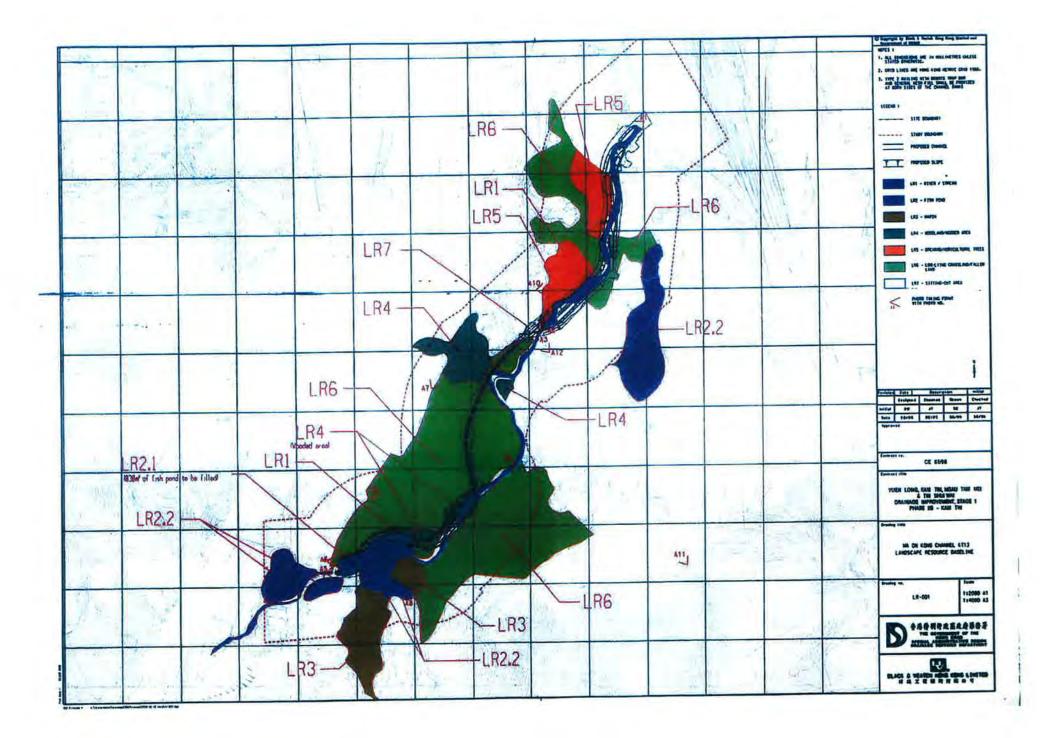
Within the ZVI, a number of key Visual Sensitive Receivers (VSRs) have been identified. These VSRs are mapped in Drawing V-001. They are listed, together with their sensitivity, in Table 10/5. Photo views illustrating the VSRs are illustrated in Drawing nos. PV-001 to 002 inclusive. For the ease of reference, each VSR is given an identity number, which is used in the text, tables and figures.

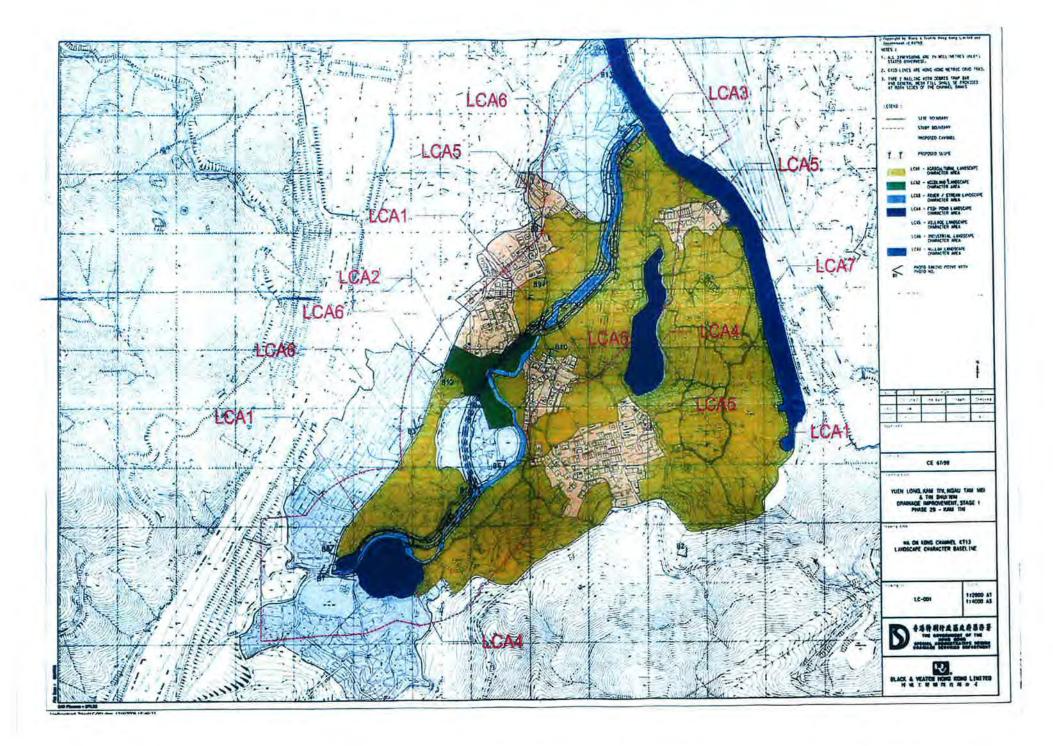
Table cor	Table compares the baseline study and the current situation for KT13: (Visual Sensitive Receiver)								
Section in EIA Report	ldentify number – VSR	Photo No.	Baseline Study, Environmental Impact Assessment Final Report [382047/E/EIA/Issue 9]	Current Situation					
Industria	I VSRs								
10.7.21	11	C1	Open storage near junction between Kam Ho Road and Village access The VSRs is workers of the open storage. The number of individual is very few and their sensitivity to visual impacts is low.	Remain the same as the baseline					
10.7.22	12	C2	Plant Nursery at the east of Ma On Kong Channel The VSRs is workers of the plant nursery. The number of individual is very few and their sensitivity to visual impacts is low.	Remain the same as the baseline					
10.7.23	13	СЗ	Plant Nursery at the west of Ma On Kong Channel The VSRs is workers of the plant nursery. The number of individual is very few and their sensitivity to visual impacts is low.	Temporary stockpiling was observed					
10.7.24	14	C4	Temporary Structure for poultry east to Ho Pui The VSRs is workers of the temporary structure. The number of individual is very few and their sensitivity to visual impacts is low.	Reconstruction of hoarding was conducted by the					
10.7.25	15	C5	Open Storage at the end of village access road The VSRs is workers of the open storage. The number of individual is very few and their sensitivity to visual impacts is low.	land owner					
10.7.26	16	C6	Temporary Structure for poultry and Open Storage at upstream of Ma On Kong Channel The VSRs is workers of the temporary structure and open storage. The number of individual is very few and their sensitivity to visual impacts is low.	Remain the same as the baseline					

Open Sp	bace / Sitting – Ou	it Area VSR	S	
10.7.27	01	C7	Users of Sitting-out Area at Ma On Kong The VSRs is future users of the re-provided sitting-out area during operation phase. The number of individual is few and their sensitivity to visual impacts is medium.	Remain the same as the baseline
Residen	tial VSRs			
10.7.28	R1	C8	Tai Kek The VSRs is residents of the village. The number of individual is very few and their sensitivity to visual impacts in high.	Remain the same as the baseline
10.7.29	R2	C9	North of Ma On Kong The VSRs is residents of the village. The number of individual is very few and their sensitivity to visual impacts is high.	Remain the same as the baseline
10.7.30	R3	C10	Ma On Kong The VSRs is residents of the village. The number of individual is very few and their sensitivity to visual impacts is high.	Remain the same as the baseline
10.7.31	R4	C11	North of Ho Pui The VSRs is residents of the village. The number of individual is few and their sensitivity to visual impacts is high.	Remain the same as the baseline

Transport-related VSRs						
10.7.32	Т1	C12	Motorists and Pedestrians along village access road (lower section) The VSRs is the road users of the road section. The number of individual is few and their sensitivity to	Remain the same as the baseline		
			visual impacts is low.			
10.7.33	7.33 T2 C13 Motorists and Pedestrians along village access road (high section)					
			The VSRs is the road users of the road section. The number of individual is very few and their sensitivity to	as the baseline		
			visual impacts is low.			
10.7.34	ТЗ	C14	Motorists, Pedestrians and Tourists along access road toward Ho Pui Reservoir	Remain the same		
			The VSRs is the road users of the road section, part of which are tourist to Ho Pui Reservoir. The number of	as the baseline		
			individual is very few and their sensitivity to change is low.			







Sewerage at Tseng Tau Chung Tsuen, Tuen Mun DC/2007/17 Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and

Physical, Human and Cultural Landscape Resources Photo record

7 December 2009

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and

Sewerage at Tseng Tau Chung Tsuen, Tuen Mun Physical, Human and Cultural Landscape Resources Record



Photo No. A3 - LR1

River/Stream



Photo No. A6-LR2.1

Fish Pond within site boundary



Photo No. A9 - LR4

Woodland/Wooded Area



Photo No. A2 - LR1





Photo No. A1 - LR1

River/Stream



Photo No. A4 - LR1

River/Stream







Photo No. A8 – LR3





Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun Physical, Human and Cultural Landscape Resources Record

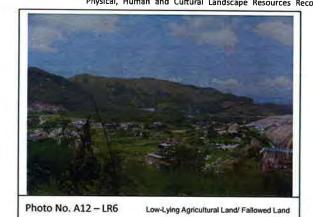




Photo No. A11 – LR5



Photo No. A10 - LR4





Photo No. A13 -LR7 Sitting-Out Area at Ma On Kong

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Physical, Human and Cultural Landscape Resources Record



Photo No. B1-LCA1 Agricultural Landscape Character Area



Photo No. B4-LCA3 River/ Stream Landscape Character Area





Photo No. B2 - LCA1 Agricultural Landscape Character Area



Photo No. B5 - LCA3 River/ Stream Landscape Character Area





Photo No. B3-LCA2 Woodland Landscape Character Area



Photo No. B6 - LCA3.1 River/ Stream Landscape Character Area



Photo No. 89-LCA5

Village Landscape Character Area

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Photo No. B11-LCA 6 Industrial Landscape Character Area

Physical, Human and Cultural Landscape Resources Record



Photo No. B12-LCA 6 Industrial Landscape Character Area





Photo No. B13-LCA 7 Nullah Landscape Character Area

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Physical, Human and Cultural Landscape Resources Record



Photo No. C3-I3 Plant Nursery at the east of Ma On Kong Channel



Photo No. C6-16 Temporary Structure for poultry and Open Storage at upstream of Ma On Kong Channel



Photo No. C9-R2

North of Ma On Kong



Photo No. C2-12 Plant Nursery at the east of Ma On Kong Channel



Photo No. C5-I5 Open Storage at the end of village access road



Photo No. C8-R1



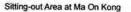
Photo No. C1-I1 Open storage near junction between Kam Ho Road and Village access road



Photo No. C4-I4 Temporary Structure for poultry east to Ho Pui



Photo No. C7-O1



Tei Kek

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Physical, Human and Cultural Landscape Resources Record



Photo No. C12-T1 Motorists and Pedestrians along village access road (lower section)



Photo No. C11-R4



Photo No. C10-R3



Photo No. C13-T2 Motorists and Pedestrians along village access road (high section)



Photo No. C14-T3 Motorists, Pedestrians and Tourists along access road toward Ho Pui Reservoir

DC/2007/17 Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Physical, Human and Cultural Landscape Resources Photo record

21 December 2009

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Physical, Human and Cultural Landscape Resources Record



Photo No. A1-LR1

River/Stream



Photo No. A4 - LR1

River/Stream



River/Stream



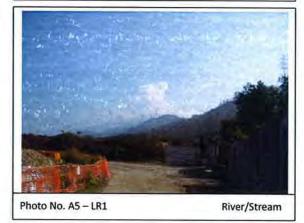






Photo No. A3-LR1

River/Stream



Photo No. A6-LR2.1

Fish Pond within site boundary

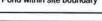




Photo No. A9 - LR4

Woodland/Wooded Area

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun





Photo No. A11 - LR5

Orchard/ Horticultural Trees



Photo No. A10 - LR4

Woodland



Photo No. A13-LR7 Sitting-Out Area at Ma On Kong

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Physical, Human and Cultural Landscape Resources Record



Photo No. B3-LCA2 Woodland Landscape Character Area



Photo No. 86 - LCA3.1 River/ Stream Landscape Character Area





Photo No. B1-LCA1 Agricultural Landscape Character Area



Photo No. B4 - LCA3 River/ Stream Landscape Character Area



Photo No. B7 - LCA3 River/ Stream Landscape Character Area





Photo No. B5 - LCA3 River/ Stream Landscape Character Area



Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun Physical, Human and Cultural Landscape Resources Record



Photo No. B10-LCA 5

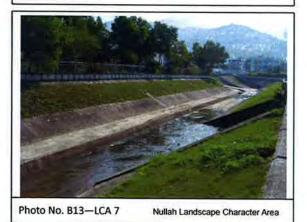
Village Landscape Character Area



Photo No. B11-LCA 6 Industrial Landscape Character Area



Photo No. B12-LCA 6 Industrial Landscape Character Area



Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and

Sewerage at Tseng Tau Chung Tsuen, Tuen Mun Physical, Human and Cultural Landscape Resources Record

lour

Photo No. C3-I3 Plant Nursery at the east of Ma On Kong Channel



Photo No. C6-16 Temporary Structure for poultry and Open Storage at upstream of Ma On Kong Channel



North of Ma On Kong



Photo No. C2-I2 Plant Nursery at the east of Ma On Kong Channel



Photo No. C5-I5 Open Storage at the end of village access road



Photo No. C8-R1



Photo No. C1-I1 Open storage near junction between Kam Ho Road and Village access road



Photo No. C4-I4 Temporary Structure for poultry east to Ho Pui



Photo No. C7-O1

Sitting-out Area at Ma On Kong

Photo No. C9-R2

Tei Kek

Drainage Improvement Works in Cheung Po, Ma On Kong, Yuen Kong San Tsuen, Tin Sam Tsuen of Yuen Long District and Sewerage at Tseng Tau Chung Tsuen, Tuen Mun

Physical, Human and Cultural Landscape Resources Record



Photo No. C12-T1 Motorists and Pedestrians along village access road (lower section)

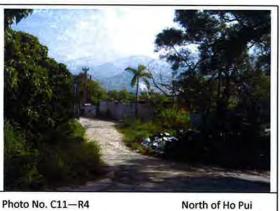


Photo No. C11-R4



Photo No. C10-R3



Photo No. C13-T2 Motorists and Pedestrians along village access road (high section)



access road toward Ho Pui Reservoir



Appendix K

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table

Date: 31-Dec-09 Year/Month: Dec-09

			Γ	Monthly Summa	ary Waste Flov	v Table for Dec	<u>: 2009</u>			
	Actual	Quantities of Ine	ert C & D Materi	ials Generated N	lonthly	Estimated Annual Quantities of C & D Wastes Generated Monthly				
Year	Total Quantitiy Generated	Broken Concrete (see note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ Cardboard packaging	Plastics (see note 3)	Chemical Waste	Others, e.g. General refuse
	(in '000M ³)	(in '000M ³)	(in '000M ³)	(in '000M ³)	(in '000M ³)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000KG)	(in '000M ³)
Jan	6.716	0.008	6.708	0	0	0	0	0	0	0
Feb	8.001	0.009	7.632	0.360	0	0	0	0	0	0
Mar	5.792	0.014	5.778	0	0	0	0	0	0	0
Apr	6.622	0.004	6.864	-0.246	0	0	0	0	0	0
May	7.632	0.006	7.674	-0.048	0	0	0	0	0	0
Jun	6.002	0.008	5.676	-0.498	0.816	0	0	0	0	0
Sub-Total	40.76	0.049	40.332	-0.432	0.816	0	0	0	0	0
Jul	4.163	0.005	5.016	-0.858	0	0	0	0	0	0
Aug	5.666	0.007	6.354	-0.828	0.132	0	0	0	0	0
Sep	5.647	0.017	3.510	1.994	0.126	0	0	0	0	0
Oct	8.186	0.008	4.710	2.934	0.534	0	0	0	0	0
Nov	11.265	0.015	8.226	2.838	0.186	0	0	0	0	0
Dec	7.924	0.009	7.458	0.457	0	0	0	0	0	0
Total	83.615	0.110	75.606	6.106	1.794	0.000	0.000	0.000	0.000	0.000

Notes: (1) The performance targets are given in PS Clause 28.10(14)

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam form packaging material

(4) Broken concrete for recycling into aggregates