MONTHLY EM&A REPORT

ATAL-Degrémont-China State Joint Venture

Contract No. DC/2008/03 Design, Build and Operate Pillar Point Sewage Treatment Works: Thirty-fifth Monthly EM&A Report

October 2013

Environmental Resources Management

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October 2013

Reference 0119806

For and on behalf of ERM-Hong Kong, Limited					
pproved by: Frank Wan					
Signed: Madat					
Position: Partner					
Certified by:(Environmental Team Leader – Winnie Ko)					
Certified by: (Registered Landscape Architect (R127) – Tai Kai Wai)					
Date: 8 October 2013					



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By Hand & By Fax (2833 9162)

Drainage Services Department Sewage Services Branch Harbour Area Treatment Scheme Division 5/F., Western Magistracy, 2A Pok Fu Lam Road, Hong Kong.

Attn: Mr. Kenley C.K. KWOK (T: 2159 3409)

8 October 2013

Dear Sir,

Contract No. DC/2008/03
Design, Build and Operate
Pillar Point Sewage Treatment Works

Monthly EM&A Report for September 2013

Reference is made to Environmental Team (ET)'s draft of the Monthly EM&A Report for September 2013 provided by email dated 3 and 7 October 2013. We have no further comment.

We hereby verify the said Monthly EM&A Report as having complied with the requirement as set out in the EM&A Manual in accordance with the condition 3.6 of Environmental Permit No. EP-321/2008/A.

Should you have any queries, please feel free to contact the undersigned at 3922 9393.

Yours faithfully,

For and on behalf of AECOM Asia Co. Ltd.

Y T Tang

Independent Environmental Checker

c.c. AECOM - Mr. C Y Hung

ERM – Ms. Winnie Ko

ATAL-Degremont-China State JV - Mr. C.Y. Fong

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EXECUTIVE SUMMARY

The construction works of *DC/2008/03 of Design, Build and Operate Pillar Point Sewage Treatment Works (the Project)* commenced on 13 November 2010. This is the 35th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 to 30 September 2013 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during the Reporting Month

Works undertaken in the reporting month included:

- Construct finishing works at the Administration Building, Sludge Dewatering Building, UV Building, Septic Waste Reception Station, Sludge Skip Storage Building, PTW, CEPT, Reuse Water Pump Room, Existing Solid Handling Building and Chemical Building;
- Install E&M equipment at the Administration Building, Sludge Dewatering Building, PTW, CEPT, UV Building, Septic Waste Reception Station, Reuse Water Pump Room, Chemical Building, Existing Solid Handling Building, Electrical buildings No.1, No.3 and No.4;
- Install BS and DO duct at the Deodorisation Units Portion A and Deodorisation Units Portion B;
- Construct drainage, cable ducts, water mains and boundary walls and installation of E&M Duct laying at P2;
- Conduct preparation works for Payment Flow Meter at Payment Flow Meter Chamber;
- Construct structural works in Empty Sludge Skip Storage Area;
- Construct walls and roofs at Sludge Skip Storage Building; and
- Construct backfilling and drainage works for the whole site.

Environmental Monitoring and Audit Progress

A summary of the monitoring activities undertaken in this reporting period is listed below:

•	24-hour TSP Monitoring at each monitoring station (AM1	6 sets
	and AM2)	

- 1-hour TSP Monitoring at each monitoring station (AM1 18 sets and AM2)
- Joint Environmental Site Inspection 4 times
 - Landscape & Visual Monitoring Once

Air Quality

6 sets of 24-hour TSP and 18 sets of 1-hr TSP measurements were carried out at each of the designated monitoring stations during the reporting period. No exceedance was recorded during the reporting period.

Waste Management

Waste generated from this Project includes inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction wastes). In total, 748.43 tonnes of inert C&D material were generated from the Project, of which 50 tonnes were reused in this Contract and the remaining 698.43 tonnes were disposed as public fill. 40.00 kg of metals, 60.00 kg of

papers/ cardboard packing and 5.00 kg of plastics were sent to recyclers for recycling during the reporting period.

Environmental Site Inspection

Four weekly joint environmental site inspections were carried out by the representatives of the Contractor, SOR and the Environmental Team (ET). Details of the audit findings and implementation status of the mitigation measures are presented in *Section 7.1*.

Landscape & Visual

Review on landscape and visual mitigation measures was performed on 27 September 2013. Details of the audit findings and implementation status of the mitigation measures are presented in *Sections 3.2* and *7.2*.

Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance was recorded during the reporting period.

No non-compliance event was recorded during the reporting period.

No environmental complaint and summon/prosecution was received in this reporting period.

Future Key Issues

Works to be undertaken in the next reporting month include:

- Construct finishing works at the Administration Building, Sludge Dewatering Building, Septic Waste Reception Station, Sludge Skip Storage Building, UV Building, Empty Sludge Skip Storage Area, PTW, CEPT, Reuse Water Pump Room, Existing Solid Handling Building and Chemical Building;
- Construct staircase and fins wall at Sludge Dewatering Building;
- Install E&M equipment at the Administration Building, Sludge Dewatering Building, PTW, CEPT, UV Building, Septic Waste Reception Station, Existing Solid Handling Building, Reuse Water Pump Room, Chemical Building, Sludge Skip Storage Building, Electrical buildings No.1, No.3 and No.4;
- Install BS and DO duct at the Deodorisation Units Portion A and Deodorisation Units Portion B;
- Construct drainage, cable ducts, water mains and boundary walls and installation E&M Duct laying at P2;
- Conduct preparation works for Payment Flow Meter at Payment Flow Meter Chamber;
- Construct structural works in Empty Sludge Skip Storage Area; and
- Construct backfilling and drainage works for the whole site.

Environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoffs, waste management and landscaping issues.

1 INRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by ATAL – Degrémont – China State Joint Venture (ADC-JV) (the Contractor) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the *Contract No. DC/2008/03 of Design, Build and Operate Pillar Point Sewage Treatment Works (the Project)*.

1.1 Purpose of the Report

This is the 35th EM&A report which summarises the monitoring results and audit findings for the EM&A programme during the reporting period from 1 to 30 September 2013.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1: **Introduction**

It details the scope and structure of the report.

Section 2: **Project Information**

It summarises the background and scope of the Project, site description, project organization, construction programme, construction works undertaken and status of the Environmental Permits (EP)/licences over the construction phase of the Project.

Section 3: Environmental Monitoring Requirements

It summarises the environmental monitoring requirements including monitoring parameters, programmes, methodologies, frequency, locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the approved EIA report, EP and relevant environmental requirements stated in the Contract Specification.

Section 4: **Implementation Status on Environmental Mitigation Measures** It summarises the implementation of environmental protection measures during the reporting period.

Section 5: Monitoring Results

It summarises the monitoring results obtained in the reporting period.

Section 6: Waste Management

It summarises the quantity of public fill and construction waste generated in the reporting period

Section 7: **Environmental Site Inspection**

It summarises the audit findings of the weekly site inspections undertaken within the reporting period.

Section 8: Environmental Non-conformance

It summarises any exceedance of environmental performance standard, environmental complaints and summons received within the reporting period.

Section 9: Further Key Issues

It summarises the impact forecast and monitoring schedule for the next reporting month.

Section 10: Review of the EM&A Data and Predictions

It compares the monitoring data and waste quantity against the predictions in the approved Project EIA report.

Section 11: Conclusions

2 PROJECT INFORMATION

2.1 BACKGROUND

The existing Pillar Point Sewage Treatment Works (PPSTW) is located to the north of the Tuen Mun River Trade Terminal and is abutting the Lung Mun Road in the north. It is a preliminary treatment works with screening and grit removal processes and the treated effluent is discharged to the sea (North Western Water Control Zone) via a twin submarine outfall. The *Review of the Tuen Mun and Tsing Yi Sewerage Master Plan* (RTMTYSMP), commissioned in February 1999, recommended that the sewage treatment capacity be expanded and the plant be upgraded to chemically enhanced primary treatment (CEPT) with disinfection. This is to cater for the projected ultimate population and planned developments in the Tuen Mun area, and to improve the effluent quality reducing pollution loadings to the receiving waters.

The upgrading of the PPSTW comprises the following works:

- expanding the treatment capacity of the existing PPSTW to cope with the increased peak wet-weather sewage flow in Tuen Mun area;
- upgrading the sewage treatment level of the existing PPSTW to incorporate chemical treatment with disinfection at minimum removal rates of 70%, 55% and 99.9% of suspended solids (SS), biochemical oxygen demand (BOD) and *E.coli*, respectively;
- upgrading the existing septic waste reception facilities at PPSTW; and
- providing and upgrading ancillary facilities including the administration building, workshop, laboratory, odour control facilities, sludge handling and dewatering facilities, access roads and minor landscaping works within the STW for the operation and maintenance of the upgraded STW.

The potential environmental impacts of the Project have been studied in the "Upgrading of Pillar Point Sewage Treatment Works" (EIAO Register No: AEIAR-145/2008). The EIA was approved on 10 June 2008 under the Environmental Impact Assessment Ordinance (EIAO) and an Environmental Permit (EP-321/2008) for the works was granted on 17 November 2008. A variation of an Environmental Permit was granted on 23 April 2013 (EP-321/2008/A). Under the requirements of Condition 3.1 of EP-321/2008/A, an EM&A programme as set out in the EM&A Manual is required to be implemented.

The construction works commenced on 13 November 2010 and are scheduled for completion by 2014.

2.2 GENERAL SITE DESCRIPTION

The open area adjacent to the existing PPSTW has been designated for the upgrading works. The layout of the upgrading works is illustrated in *Annex*

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in the reporting period is shown in *Table 2.1*. The locations of the construction activities are shown in *Annex B*. The construction programme of the Project in the reporting month and the upcoming month is presented in *Annex L*.

Table 2.1 Summary of Construction Activities Undertaken in the Reporting Period

Construction Activities Undertaken

- Construct finishing works at the Administration Building, Sludge Dewatering Building, UV Building, Septic Waste Reception Station, Sludge Skip Storage Building, PTW, CEPT, Reuse Water Pump Room, Existing Solid Handling Building and Chemical Building;
- Install E&M equipment at the Administration Building, Sludge Dewatering Building, PTW, CEPT, UV Building, Septic Waste Reception Station, Reuse Water Pump Room, Chemical Building, Existing Solid Handling Building, Electrical buildings No.1, No.3 and No.4;
- Install BS and DO duct at the Deodorisation Units Portion A and Deodorisation Units Portion B;
- Construct drainage, cable ducts, water mains and boundary walls and installation of E&M Duct laying at P2;
- Conduct preparation works for Payment Flow Meter at Payment Flow Meter Chamber;
- Construct structural works in Empty Sludge Skip Storage Area;
- Construct walls and roofs at Sludge Skip Storage Building; and
- Construct backfilling and drainage works for the whole site.

2.4 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

The project organisation chart and contact details are shown in *Annex C*.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Project is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/	Reference	Validity Period	Remarks
Notification			
Environmental	EP-321/2008/A	Throughout the	Permit granted on 23
Permit		Contract	April 2013
Notification of	Ref No. 308136	Throughout the	-
Construction Works		Contract	
under the Air			
Pollution Control			
(Construction Dust)			
Regulation			

Permit/ Licences/	Reference	Validity Period	Remarks
Notification			
Water Discharge	WT00008027-2010	Till 31 December	Wastewater discharge
License		2015	licence was issued by
			EPD on 7 December
			2010.
Construction Noise	GW-RW0466-13	28 July 2013 - 27	-
Permit		January 2014	
Chemical Waste	5213-421-A2620-01	Throughout the	Licence approved on 28
Producer Registration		Contract	October 2010

3 ENVIRONMENTAL MONITORING REQUIREMENTS

3.1 AIR QUALITY MONITORING

3.1.1 Monitoring Location

The proposed air quality monitoring stations for the construction phase of the Project, as recommended in the approved EM&A Manual, are given in *Table 3.1* and shown in *Annex D*. The proposed locations (AM1 and AM2) have been agreed with the Drainage Services Department (DSD), Environmental Protection Department (EPD) and the Independent Environmental Checker (IEC).

Table 3.1 Construction Phase Air Monitoring Locations

Monitoring ID	Air Quality Monitoring Station	
AM1	Tuen Mun EMSD Servicing Vehicle Station	
AM2	River Trade Terminal Office	

3.1.2 Monitoring Parameter and Frequency

The construction phase air quality monitoring has been conducted at the designated monitoring stations in accordance with the requirements stipulated in the EM&A Manual. 1-hour and 24-hour TSP levels have been monitored at the frequency and duration stated in *Table 3.2*. The construction phase TSP monitoring has been conducted as per the schedule presented in *Annex E*.

Table 3.2 Construction Phase Air Quality Monitoring Parameters and Frequency

Parameter	Frequency
24-hour average TSP	Once every 6 days
1-hour average TSP	3 times every 6 days

3.1.3 Action and Limit Levels

The Action and Limit levels have been established and presented in *Table 3.3*.

Table 3.3 Action and Limit Levels for Air Quality

Parameter	Air Monitoring Station	Action Level, µgm-3	Limit Level, µgm-3
24-hour TSP	AM1	183	260
	AM2	192	260
1-hour TSP	AM1	343	500
	AM2	383	500

3.1.4 Monitoring Equipment

Continuous 24-hour and 1-hour TSP monitoring was performed using High Volume Samplers (HVS) with appropriate sampling inlets located at the designated monitoring stations.

The performance specification of HVS complied with the standard method "Determination of Suspended Particulate Matter in the Atmosphere (High Volume Method)" as stipulated in US EPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50 Appendix B). Table 3.4 summarises the equipment that were deployed for the 24-hour and 1-hour TSP monitoring respectively.

Table 3.4 TSP Monitoring Equipment

Monitoring Station Monitoring Equipment (HVS and Calibrator)		
24-hr and 1-hr TSP		
AM1	GMW GS-2310 (S/N 7580), CM-AIR-43 (S/N 0438320)	
AM2	GMW GS-2310 (S/N 1252), CM-AIR-43 (S/N 0438320)	

3.1.5 *Monitoring Methodology*

The setup locations of the HVSs were listed in *Table 3.1*. All HVSs were free-standing with no obstruction.

The following criteria were considered in the installation of the HVSs:

- appropriate support to secure the samplers against gusty wind were provided at AM1 and AM2;
- a minimum of 2m separation from walls, parapets and penthouses was required for rooftop samplers;
- no furnace or incinerator flues was nearby;
- airflow around the sampler was unrestricted; and
- permission was obtained to set up the samplers and gain access to the monitoring stations.

Preparation of Filter Papers

- glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected;
- all filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not variable by more than \pm 3°C; the relative humidity (RH) was 40%; and
- SGS Hong Kong Ltd, a HOKLAS accredited laboratory, implemented comprehensive quality assurance and quality control programmes.

Field Monitoring

• the power supply was checked to ensure that the HVSs were working properly;

- the filter holder and area surrounding the filter were cleaned;
- the filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- the filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- the shelter lid was closed and secured with an aluminium strip;
- the HVSs were warmed-up for about 5 minutes to establish runtemperature conditions;
- a new flowrate record sheet was inserted into the flow recorder;
- the flow rates of the HVSs were checked and adjusted to between 1.22 and 1.37 m³ min⁻¹ which were within the range specified in the EM&A Manual (ie 0.6 to 1.7 m³ min⁻¹);
- the programmable timer was set for a sampling period of 24 hours \pm 1 hour, and the starting time, weather condition and the filter number were recorded;
- the initial elapsed time was recorded;
- at the end of sampling, the sampled filter was removed carefully and folded in half I so that only surfaces with collected particulate matter were in contact;
- the filter was placed in a clean plastic envelope and sealed;
- all monitoring information was recorded on a standard data sheet; and
- filters were sent to SGS Hong Kong Ltd for analysis.

Maintenance and Calibration

- the HVSs and their accessories were maintained in good working condition, eg. motor brushes were replaced routinely and electrical wiring was checked to ensure a continuous power supply; and
- the flow rate of each HVS with mass flow controller was calibrated using an orifice calibrator. Initial calibrations of the dust monitoring equipment were conducted upon installation and prior to commissioning. Five-point calibration was carried out for HVSs using CM-AIR-43 Calibration Kit. HVSs are calibrated on a bi-monthly basis. The calibration records for the HVSs are given in *Annex F*.

Wind Data Monitoring

Average wind data (wind speed and wind direction) during the monitoring period were obtained from the meteorological station at Tuen Mun of the Hong Kong Observatory (HKO) and were presented in *Annex G*.

3.1.6 Event and Action Plan

The Event/Action Plan (EAP) for air quality monitoring is presented in *Annex H*.

3.2 LANDSCAPE AND VISUAL MONITORING

In accordance with the EM&A Manual, monthly landscape and visual monitoring is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the approved EIA Report are fully achieved. The monitoring procedures and criteria as described in the EM&A Manual were adopted.

3.3 ENVIRONMENTAL MITIGATION MEASURES AND ENVIRONMENTAL REQUIREMENTS IN CONTRACT

All the relevant environmental mitigation measures listed in the EIA Report and EM&A Manual as well as the specific environmental requirements stated in the Contract Specification are summarised in *Annex I*. A summary of the key environmental mitigation measures implemented as per the Contract Requirements is also presented in *Annex I*.

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has implemented environmental mitigation measures and requirements as stated in the approved EIA Report, EM&A Manual and EP. The implementation status of the measures during the reporting period is summarised in *Annex I*.

5 MONITORING RESULTS

5.1 AIR QUALITY

A total of 6 sets of 24-hour and 18 sets of 1-hour TSP measurements were taken at each of the monitoring stations (AM1 and AM2) during the reporting period. The monitoring data for 24-hour and 1-hour TSP together with the wind data and graphical presentations for the past 4 months are presented in *Annex G*. The weather conditions during the monitoring period ranged from sunny to rainy. The local impacts near the monitoring stations of AM1 and AM2 were mainly associated with vehicular emissions. No exceedance of Action and Limit Level of the 1-hr and 24-hr TSP was recorded during the reporting period.

6 WASTE MANAGEMENT

Wastes generated from this Project include inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction waste). Construction waste comprises general refuse, metals and paper/cardboard packaging materials. Metals generated from the Project are also grouped into construction waste as the materials were not disposed of with others at public fill. Reference has been made to the Monthly Summary Waste Flow Table prepared by the Contractor (see *Annex J*). With reference to the relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in *Table 6.1*.

Table 6.1 Quantities of Waste Generated from the Project

Month / Year		Quantity		
Total Inert C&D Non-inert C&D Mate		inert C&D Materia	ls (b)	
	Materials Generated (a)	C&D Materials Recycled (c)	C&D Waste Disposed of at Landfill ^(d)	Chemical Waste
September 2013	748.43 tonnes	105.00 kg	41.28 tonnes	0 L

Notes:

- (a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated spoil. In total, 748.43 tonnes of inert C&D waste were generated from the Project, of which 50.00 tonnes were reused in this Contract and the remaining 698.43 tonnes were disposed as public fill. The detailed waste flow is presented in *Annex J*.
- (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
- (c) 40.00 kg of metals, 60.00 kg of papers/ cardboard packing and 5.00 kg of plastics were sent to recyclers for recycling during the reporting period
- (d) Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at WENT Landfill by subcontractors.

7 ENVIRONMENTAL INSPECTIONS

7.1 WEEKLY SITE AUDITS

Joint site inspections were conducted by representatives of the Contractor, the SOR and the ET on 6, 13, 17 and 27 September 2013. The IEC was also present at the joint inspection on 13 September 2013.

Major observations during the reporting period are summarised as follows:

6 September 2013

Muddy water was observed in the U-channel next to the Sludge
Dewatering Building. The Contractor was reminded to clean up the
muddy water in the U-channel and provide sufficient sand bag barriers
or earth bunds to properly direct the muddy water to such silt removal
facilities.

13 September 2013

• Tree tag was observed missing for retained tree R24. The Contractor was reminded to provide a tree tag.

17 September 2013

- Tree tag was observed missing for the tree outside the Existing Administrative Building. The Contractor was reminded to provide a tree tag.
- Construction materials were observed storing under the retained tree
 126. The Contractor was reminded to remove the construction material and fence off the protection zone.
- The Contractor was reminded to provide proper protection measures for the retained tree R33, R34 and R35, especially when operating machinery or equipment in close vicinity to the trees.

27 September 2013

• Please refer to *Section 7.2*.

Follow-up actions resulting from the last site inspections were taken as reported by the Contractor and their results were observed in the site inspections conducted in the reporting period.

7.2 LANDSCAPE AND VISUAL MONITORING

In accordance with the EM&A Manual, monthly landscape and visual monitoring is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the EIA Report are fully achieved. A review of the landscape and visual

mitigation measures was performed on 27 September 2013. It was confirmed that most of the necessary landscape and visual mitigation measures as summarised in *Annex I* were implemented by the Contractor. The major findings are summarised as follow:

27 September 2013

- Wire was observed hanging on retained tree R36. The Contractor was reminded to remove the wire.
- Fungus was observed on retained tree 278. The Contractor was reminded to spray fungicide to inhibit the growth of the fungus.

8 ENVIRONMENTAL NON-CONFORMANCE

8.1.1 Summary of Monitoring Exceedance

No exceedances of the Action and Limit Levels of 1-hr and 24-hr TSP was recorded during the reporting period.

8.1.2 Summary of Environmental Non-Compliance

No non-compliance event was recorded during the reporting period.

8.1.3 Summary of Environmental Complaint

No complaint was received during the reporting period. The cumulative environmental complaint log is shown in *Annex K*.

8.1.4 Summary of Environmental Summon and Successful Prosecution

No summon was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex K*.

9 FUTURE KEY ISSUES

9.1.1 Key Issues for the Coming Month

Works to be undertaken for the coming monitoring period are summarised in *Table 9.1*.

Table 9.1 Construction Works to be Undertaken in the Next Reporting Period

Work to be undertaken

- Construct finishing works at the Administration Building, Sludge Dewatering Building, Septic Waste Reception Station, Sludge Skip Storage Building, UV Building, Empty Sludge Skip Storage Area, PTW, CEPT, Reuse Water Pump Room, Existing Solid Handling Building and Chemical Building;
- Construct staircase and fins wall at Sludge Dewatering Building;
- Install E&M equipment at the Administration Building, Sludge Dewatering Building, PTW, CEPT, UV Building, Septic Waste Reception Station, Existing Solid Handling Building, Reuse Water Pump Room, Chemical Building, Sludge Skip Storage Building, Electrical buildings No.1, No.3 and No.4;
- Install BS and DO duct at the Deodorisation Units Portion A and Deodorisation Units Portion B;
- Construct drainage, cable ducts, water mains and boundary walls and installation E&M Duct laying at P2;
- Conduct preparation works for Payment Flow Meter at Payment Flow Meter Chamber;
- Construct structural works in Empty Sludge Skip Storage Area; and
- Construct backfilling and drainage works for the whole site.

Potential environmental impacts arising from the above construction activities will be mainly associated with dust, construction noise, site runoffs, waste management and landscaping issues.

9.1.2 Monitoring Schedule for the Next Reporting Period

The tentative schedule of TSP monitoring for the next reporting period was presented in *Annex E*. Environmental monitoring will be conducted at the same monitoring locations in the next reporting period. The monitoring programme has been reviewed and was considered adequate for the nature of works in progress.

9.1.3 Construction Programme for the Next Three Months

The most up-to-date construction programme for the Project is presented in *Annex L*.

10.1 AIR QUALITY

Since the EIA has only included a qualitative assessment of dust impact during the construction phase, a comparison was made between the monitoring results from the start of the Project and the Hong Kong Air Quality Objectives (HKAQO) (see *Table 10.1*).

Table 10.1 Comparison of the HKAQO and Air Quality Monitoring Results

Monitoring Station	Corresponding ASR in EIA	HKAQO, μg m ⁻³	Measured 24-hour TSP Monitoring Results, μg m ^{-3 (a) (b)}	
		24 hour (a)	Average	Range
AM1	A1	260	73	66 - 84
AM2	A7	260	71	69 - 76

Notes:

- (a) Only 24-hour TSP monitoring results were compared as there is no 1 hour TSP criterion in HKAQO.
- (b) The average and range of data were calculated from the period between the commencement of the construction works and this reporting month.

The monitoring results show that the average and range of the 24-hour TSP levels recorded since the commencement of the construction works have been well below the 24-hour TSP criterion in the HKAQO. Recommended mitigation measures in *Section 3.7.1.1* of EIA have been implemented throughout the construction period and were considered effective.

10.2 WASTE MANAGEMENT

The estimated amount of waste generated from the Project and the cumulative quantities of waste generated up to this reporting month are presented in *Table 10.2*. The amount of inert C&D material sent to public fills is higher than the estimated amount in the EIA. With reference to the C&D Material Assessment (Contractor's General Submission (CSF) No.:

DC200803/CSF/SAF/060026/A), the difference in quantities is mainly due to the differences in excavation depths and the excavation methods in the Contract Works and that assumed in the Reference Design. Recommended mitigation measures in *Sections* 7.5.1.1 to 7.5.1.9 of the EIA will continue to be implemented during the construction stage.

Table 10.2 Quantity of Amount of C&D Materials, General Wastes and Chemical Wastes Actually Generated and Estimated in the EIA and C&D Material Assessment

Type of Material	Estimated Amount of Public Fill and Construction Waste in the EIA (inert & non- inert)	Estimated Amount of Public Fill and Construction Waste in C&D Material Assessment (CSF No.: DC200803/CSF/SAF/060026/ A) (c)	Accumulated Actual Amount of Public Fill and Construction Waste Recorded (a) (b) (inert & non-inert)
Amount of C&D Materials Arising	61,489.00 m ³	77,600.00 m ³	126,874.02 m ³
Amount of C&D Materials Reused on other site	-	-	3,163.89 m ³
Amount of C&D Materials Reused on site	14,926.00 m ³	18,000.00 m ³	24,071.67 m ³
Amount of C&D Materials Sent to Fill Banks	46,563.00 m ³	59,600.00 m ³	99,638.14 m³
General Refuse	Small	-	1,876.33 tonnes
Chemical Waste	Small	-	810.00 L

Notes:

- (a) The actual amount of C&D Materials has been recorded since the commencement of construction works.
- (b) The density of soil and rock (bulked) is 1.8 tonnes/m³.
- (c) The estimated amount of C&D material generated from the Contract Works was revised in the C&D Material Assessment and submitted to the SO on 9 September 2010 (CSF No.: DC200803/CSF/SAF/060026/A) because of the new plant & facility layout.

10.3 CONCLUSION OF THE REVIEW

The EIA predictions and monitoring results since the commencement of the construction works have been reviewed. The EIA concluded that the Project would not cause adverse impacts to the environment, and monitoring results have also confirmed that so far. Mitigation measures recommended in the EP, EIA and EM&A Manual will continue to be implemented throughout the construction phase of the Project.

11 CONCLUSIONS

This EM&A Report presents the EM&A programme undertaken during the reporting period from 1 to 30 September 2013 in accordance with EM&A Manual and requirements of EP (EP-321/2008/A).

No exceedance of Action and Limit Levels of 24-hour TSP and 1-hour TSP was recorded at the monitoring stations during the reporting period.

Monthly landscape and visual monitoring was conducted in the reporting period. Most of the necessary landscape and visual mitigation measures recommended in the EIA Report were implemented by the Contractor. Follow-up actions are required by the Contractor to improve protection of the retained or to-be transplanted trees.

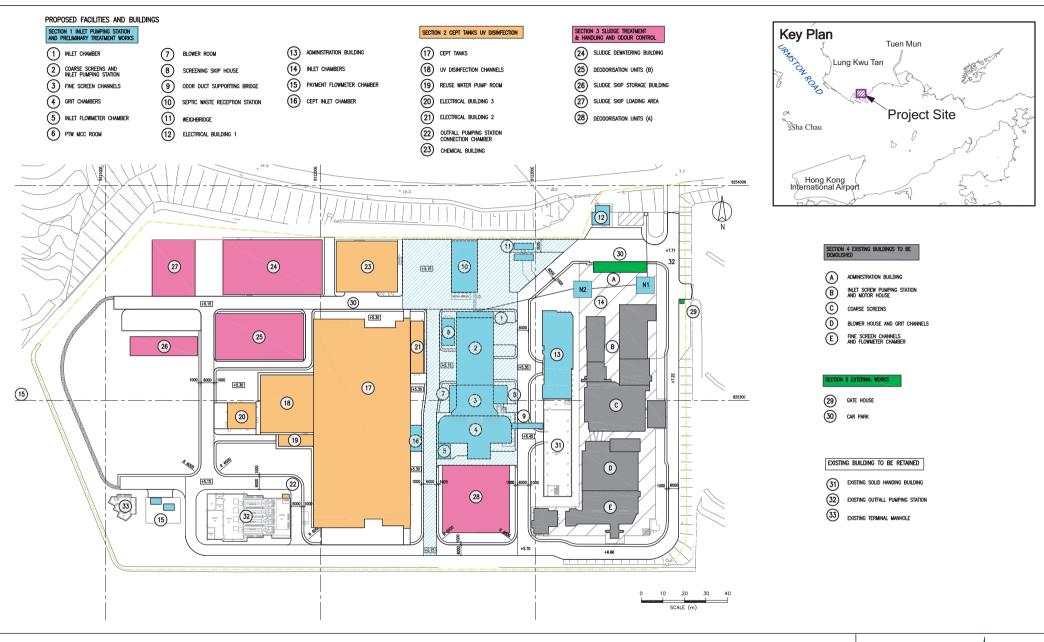
No non-compliance event was recorded during the reporting period.

No complaint and summons/prosecution was received during the reporting period.

The ET will keep track of the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all the necessary mitigation measures in the coming periods.

Annex A

Location of Project



Annex A

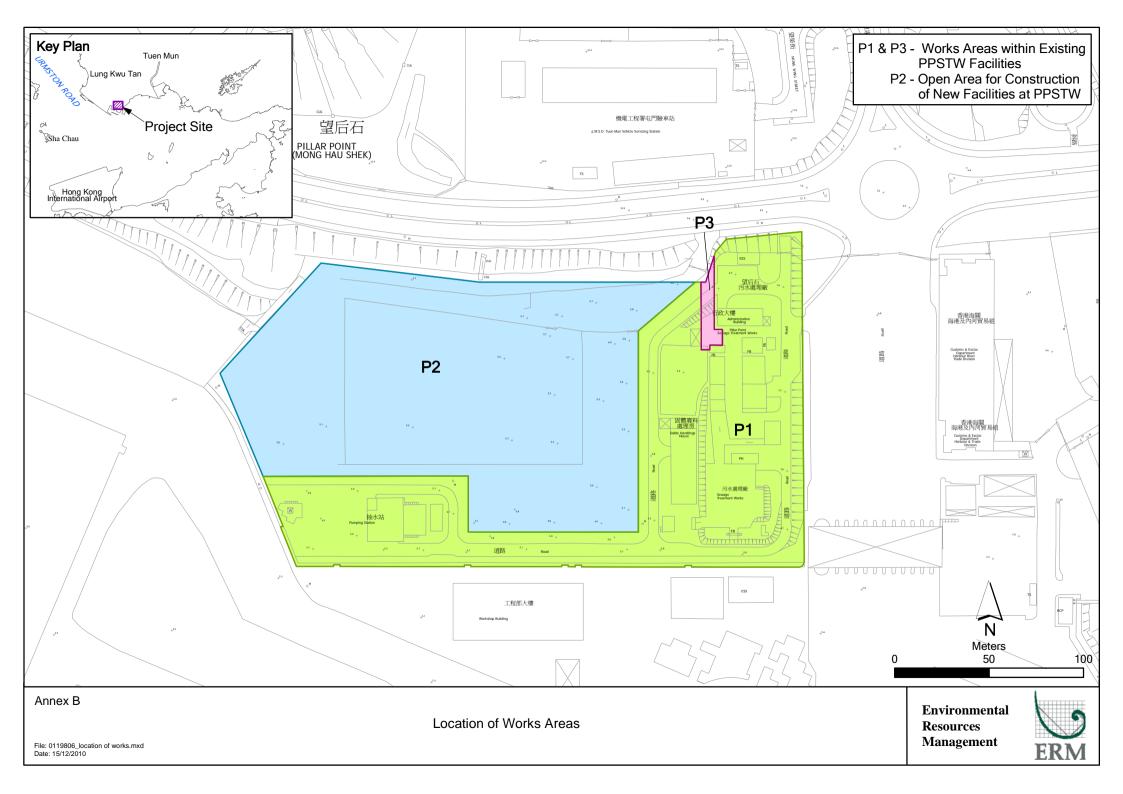
Contract No. DC/2008/03 - Design, Build and Operate Pillar Point Sewage Treatment Works Layout of Project

Environmental Resources Management



Annex B

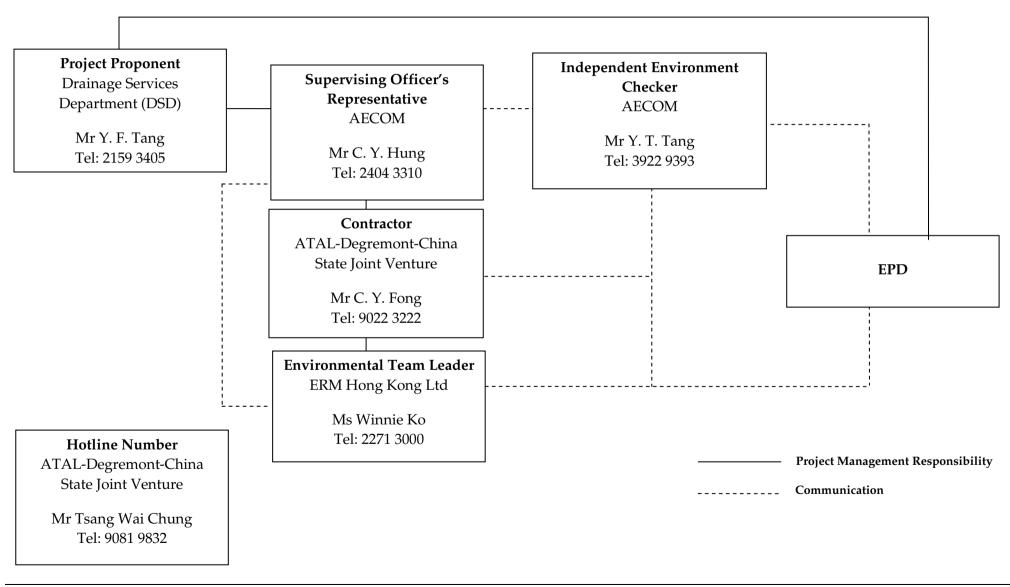
Works Location



Annex C

Project Organization Chart with Contact Details

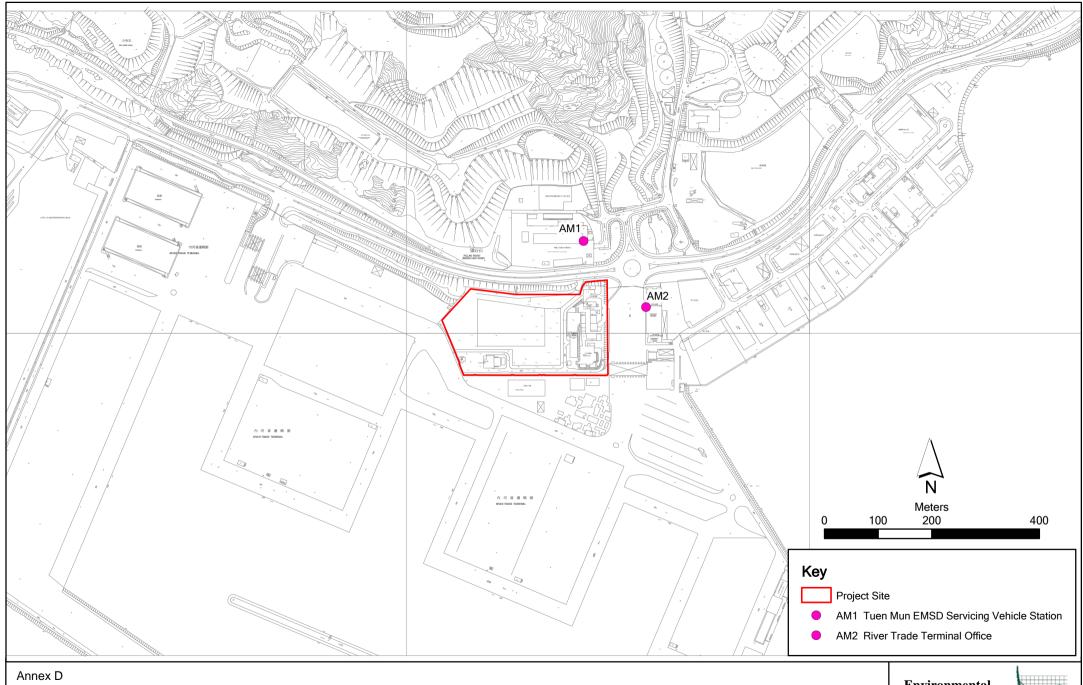
Project Organization During Construction Phase (with contact details)



ENVIRONMENTAL RESOURCES MANAGEMENT

Annex D

Locations of Air Quality Monitoring Stations



Contract No. DC/2008/03 Design, Build and Operate of Pillar Point Sewage Treatment Works

Environmental Resources Management





AM1 – Tuen Mun EMSD Servicing Vehicle Station



AM2 - River Trade Terminal Office

Annex E

Monitoring Schedule of Reporting Month and Next Month

Contract No. DC/2008/03 - Design, Build and Operate Pillar Point Sewage Treatment Works (Tuen Mun EMSD Servicing Vehicle Station - AM1 & River Trade Terminal Office - AM2) September 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Sep	02-Sep	03-Sep	04-Sep	05-Sep	06-Sep	07-Sep
		3X1-hr & 1X 24-hr TSP				
		0,000 1111 0 170 170 170 170 170 170 170 1				
08-Sep	09-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep
	3X1-hr & 1X 24-hr TSP				3X1-hr & 1X 24-hr TSP	
15 Con	10.000	17.000	10.000	10.000	00.00	01.000
15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep
				3X1-hr & 1X 24-hr TSP	Public Holiday	
22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
		<u> </u>		_0 00p	00p	20 000
			3X1-hr & 1X 24-hr TSP			
29-Sep	30-Sep					
	3X1-hr & 1X 24-hr TSP					
	JΛ1-111 α 1Λ 24-111 13F					

Contract No. DC/2008/03 - Design, Build and Operate Pillar Point Sewage Treatment Works (Tuen Mun EMSD Servicing Vehicle Station - AM1 & River Trade Terminal Office - AM2) October 2013

Outdoor 2013													
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday							
		01-Oct	02-Oct	03-Oct	04-Oct	05-Oct							
		Public Holiday				3X1-hr & 1X 24-hr TSP							
06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct	12-Oct							
					3X1-hr & 1X 24-hr TSP								
13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct							
	Public Holiday			3X1-hr & 1X 24-hr TSP									
20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct							
			3X1-hr & 1X 24-hr TSP										
27-Oct	28-Oct	29-Oct	30-Oct	31-Oct									
		3X1-hr & 1X 24-hr TSP											

Annex F

Calibration Reports for HVSs

TSP Monitoring Equipment

Monitoring Station ID	Location	Monitoring Equipment		Last Calibration Dat	e Next Calibration Date
24-hr and 1-hr TSI)	HVS	Calibrator		
AM1	Tuen Mun EMSD Vehicle Servicing Station	GMW GS-2310 (S/N 7580)	CM-AIR-43 (S/N 0438320)	03 September 2013	03 November 2013
AM2	River Trade Terminal Office	GMW GS-2310 (S/N 1252)	CM-AIR-43 (S/N 0438320)	03 September 2013	03 November 2013

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : EMSD
Calibrated by : K.T.Ho
Date : 03/09/2013

Sampler

Model : GMWS-2310 ACCU-VOL

Serial Number : S/N 7580

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2323

 Service Date
 :
 26 Dec 2012

 Slope (m)
 :
 2.09107

 Intercept (b)
 :
 -0.02838

 Correlation Coefficient(r)
 :
 0.99996

Standard Condition

Pstd (hpa) : 1013 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1008 Ta(K) : 304

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)		
1	18 holes	11.1	3.287	1.586	51	50.3
2	13 holes	9.0	2.960	1.429	46	45.4
3	10 holes	6.8	2.573	1.244	40	39.5
4	7 holes	4.4	2.070	1.003	32	31.6
5	5 holes	2.5	1.560	0.760	24	23.7

Sampler Calibration Relationship

Slope(m):32.311 Intercept(b): -0.828 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan Date: 05/09/2013

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : River Trade
Calibrated by : P.F.Yeung
Date : 03/09/2013

Sampler

Model : GMWS-2310 ACCU-VOL

Serial Number : S/N 1252

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2323

 Service Date
 : 26 Dec 2012

 Slope (m)
 : 2.09107

 Intercept (b)
 : -0.02838

 Correlation Coefficient(r)
 : 0.99996

Standard Condition

Pstd (hpa) : 1013 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1008 Ta(K) : 304

Resi	istance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)		
1	18 holes	11	3.272	1.578	64	63.1
2	13 holes	9.0	2.960	1.429	57	56.2
3	10 holes	6.8	2.573	1.244	48	47.4
4	7 holes	4.2	2.022	0.981	37	36.5
5	5 holes	2.2	1.463	0.713	26	25.7

Sampler Calibration Relationship

Slope(m):43.293 Intercept(b): -5.669 Correlation Coefficient(r): 0.9993

Checked by: Magnum Fan Date: 05/09/2013



TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Dec 2	6, 2012	Rootsmeter	D/14	0438320	Ta (K) -	295
Operator Ti	sch	Orifice I.D		2323	Pa (mm) -	753.11
PLATE VC	DLUME START (m3) NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00	DIFF TIME (min) 1.4440 1.0240 0.9120 0.8720 0.7200	METER DIFF Hg (mm) 3.2 6.4 8.0 8.8 12.8	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	 · Va .	(x axis) Qa	(y axis)
0.9967 0.9925 0.9903 0.9893 0.9840	0.6902 0.9693 1.0858 1.1345 1.3666	1.4149 2.0010 2.2372 2.3464 2.8299	0.9957 0.9915 0.9893 0.9883 0.9830	0.6896 0.9683 1.0847 1.1334 1.3652	0.8851 1.2517 1.3995 1.4678 1.7702
Qstd slo intercep coeffici	t (b) = ent (r) =	2.09107 -0.02838 0.99996 	 Qa slop intercep coeffici	t (b) =	1.30939 -0.01775 0.99996

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b\}$ Qa = $1/m\{ [SQRT H2O(Ta/Pa)] - b\}$

Annex G

24-hour and 1-hour TSP Monitoring Results

Annex G - 24-hour and 1-hour TSP Monitoring Results

1-hour TSP Monitoring Results

Station AM1

				TSP					Wind		
	Start	Finish	Weather	Concentration	Action Level	Limit Level	Site Conditions /	Temperature	Speed *	Sampler	Filter
Date	Time	Time		(μg/m ³)	(µg/m³)	(μg/m³)	Observations / Remarks	(℃)	(m/s)	ID	ID
03/09/2013	13:10	14:10	Cloudy	91	343	500	Construction work in progress	30.0	*	7580	8142
	14:10	15:10	Cloudy	95	343	500	Construction work in progress	30.0	*	7580	8143
	15:10	16:10	Cloudy	94	343	500	Construction work in progress	30.0	*	7580	8144
09/09/2013	13:10	14:10	Sunny	81	383	500	Construction work in progress	28.0	*	7580	8165
	14:10	15:10	Sunny	91	383	500	Construction work in progress	28.0	*	7580	8166
	15:10	16:10	Sunny	85	383	500	Construction work in progress	28.0	*	7580	8167
13/09/2013	13:10	14:10	Sunny	107	343	500	Construction work in progress	28.0	*	7580	8188
	14:10	15:10	Sunny	108	343	500	Construction work in progress	28.0	*	7580	8189
	15:10	16:10	Sunny	110	343	500	Construction work in progress	28.0	*	7580	8190
19/09/2013	13:10	14:10	Sunny	98	343	500	Construction work in progress	28.0	*	7580	8215
	14:10	15:10	Cloudy	95	343	500	Construction work in progress	28.0	*	7580	8216
	15:10	16:10	Cloudy	97	343	500	Construction work in progress	28.0	*	7580	8217
25/09/2013	13:10	14:10	Fine	102	343	500	Construction work in progress	28.0	*	7580	8238
	14:10	15:10	Fine	108	343	500	Construction work in progress	28.0	*	7580	8239
	15:10	16:10	Fine	104	343	500	Construction work in progress	28.0	*	7580	8240
30/09/2013	13:10	14:10	Cloudy	155	343	500	Construction work in progress	23.0	*	7580	8313
	14:10	15:10	Cloudy	160	343	500	Construction work in progress	23.0	*	7580	8314
	15:10	16:10	Cloudy	157	343	500	Construction work in progress	23.0	*	7580	8315
			Min.	81							

* Wind Speed data is presented in the Meteorological Data table

Max.

Average

160

Annex G - 24-hour and 1-hour TSP Monitoring Results

1-hour TSP Monitoring Results

Station AM2

				TSP					Wind		
	Start	Finish	Weather	Concentration	Action Level	Limit Level	Site Conditions /	Temperature	Speed *	Sampler	Filter
Date	Time	Time		(μg/m³)	(µg/m³)	(μg/m³)	Observations / Remarks	(℃)	(m/s)	ID	ID
03/09/2013	13:00	14:00	Cloudy	113	383	500	Construction work in progress	30.0	*	1252	8138
	14:00	15:00	Cloudy	98	383	500	Construction work in progress	30.0	*	1252	8139
	15:00	16:00	Cloudy	98	383	500	Construction work in progress	30.0	*	1252	8140
09/09/2013	13:00	14:00	Sunny	98	383	500	Construction work in progress	28.0	*	1252	8161
	14:00	15:00	Sunny	93	383	500	Construction work in progress	28.0	*	1252	8162
	15:00	16:00	Sunny	94	383	500	Construction work in progress	28.0	*	1252	8163
13/09/2013	13:00	14:00	Sunny	110	383	500	Construction work in progress	28.0	*	1252	8184
	14:00	15:00	Sunny	109	383	500	Construction work in progress	28.0	*	1252	8185
	15:00	16:00	Sunny	122	383	500	Construction work in progress	28.0	*	1252	8186
19/09/2013	13:00	14:00	Sunny	101	383	500	Construction work in progress	28.0	*	1252	8211
	14:00	15:00	Cloudy	105	383	500	Construction work in progress	28.0	*	1252	8212
	15:00	16:00	Cloudy	86	383	500	Construction work in progress	28.0	*	1252	8213
25/09/2013	13:00	14:00	Fine	116	383	500	Construction work in progress	28.0	*	1252	8234
	14:00	15:00	Fine	103	383	500	Construction work in progress	28.0	*	1252	8235
	15:00	16:00	Fine	105	383	500	Construction work in progress	28.0	*	1252	8236
30/09/2013	13:00	14:00	Cloudy	147	383	500	Construction work in progress	23.0	*	1252	8309
	14:00	15:00	Cloudy	169	383	500	Construction work in progress	23.0	*	1252	8310
	15:00	16:00	Cloudy	167	383	500	Construction work in progress	23.0	*	1252	8311
			Min.	86					•		

Max. 169
Average 113

^{*} Wind Speed data is presented in the Meteorological Data table

Annex G - 24-hour and 1-hour TSP Monitoring Results

24-hour TSP Monitoring Results

Station AM1

Start		Finish		Weather	Filter	Weight (g)	Elapsed Tim	e Reading	Sampling Time		r Rate (m	n³/min)	TSP Conc.	Action Level	Limit Level	Observations / Remarks	Sampler	Filter
Date	Time	Date	Time		Initial	Final	Initial	Final	(hrs)	Initial	Final	Average	(µg/m ³)	(μg/m ³)	(μg/m ³)		ID	ID
03-09-2013	16:10	04-09-2013	16:10	Cloudy	2.8042	2.9293	14978.18	15002.18	24	1.26	1.26	1.26	69	183	260	Construction work in progress	7580	8145
09-09-2013	16:10	10-09-2013	16:10	Sunny	2.7897	2.9090	15005.18	15029.18	24	1.26	1.26	1.26	66	183	260	Construction work in progress	7580	8168
13-09-2013	16:10	14-09-2013	16:10	Sunny	2.8117	2.9370	15032.18	15056.18	24	1.26	1.26	1.26	69	183	260	Construction work in progress	7580	8191
19-09-2013	16:10	20-09-2013	16:10	Sunny	2.7949	2.9331	15059.18	15083.18	24	1.26	1.26	1.26	76	183	260	Construction work in progress	7580	8218
25-09-2013	16:10	26-09-2013	16:10	Fine	2.7967	2.9264	15086.18	15110.18	24	1.26	1.26	1.26	71	183	260	Construction work in progress	7580	8241
30-09-2013	16:10	01-10-2013	16:10	Cloudy	2.7975	2.9494	15113.18	15137.18	24	1.26	1.26	1.26	84	183	260	Construction work in progress	7580	8316

Min. 66 Max. 84 Average 73

24-hour TSP Monitoring Results

Station AM2

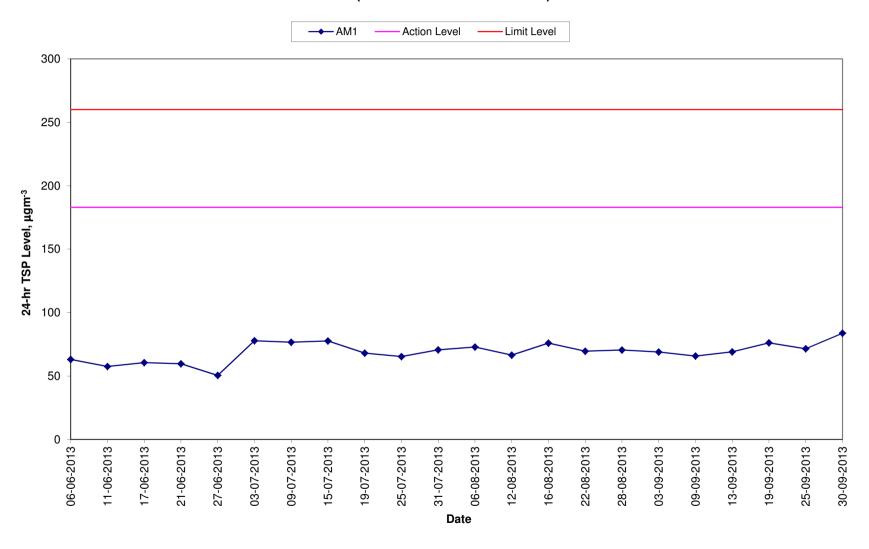
									Sampling			2	TSP	Action	Limit			
Start		Finish		Weather	Filter	Weight (g)	Elapsed Tim	ne Reading	Time	Flow	Rate (m	³/min)	Conc.	Level	Level	Observations / Remarks	Sampler	Filter
Date	Time	Date	Time		Initial	Final	Initial	Final	(hrs)	Initial	Final	Average	(μg/m³)	(μg/m³)	(μg/m ³)		ID	D
03-09-2013	16:00	04-09-2013	16:00	Cloudy	2.8112	2.9345	22996.20	23020.20	24	1.24	1.24	1.24	69	192	260	Construction work in progress	1252	8141
09-09-2013	16:00	10-09-2013	16:00	Sunny	2.7951	2.9179	23023.20	23047.20	24	1.24	1.24	1.24	69	192	260	Construction work in progress	1252	8164
13-09-2013	16:00	14-09-2013	16:00	Sunny	2.8244	2.9499	23050.20	23074.20	24	1.24	1.24	1.24	70	192	260	Construction work in progress	1252	8187
19-09-2013	16:00	20-09-2013	16:00	Sunny	2.7797	2.9103	23077.20	23101.20	24	1.24	1.24	1.24	73	192	260	Construction work in progress	1252	8214
25-09-2013	16:00	26-09-2013	16:00	Fine	2.7795	2.9160	23104.20	23128.20	24	1.24	1.24	1.24	76	192	260	Construction work in progress	1252	8237
30-09-2013	16:00	01-10-2013	16:00	Cloudy	2.8094	2.9346	23131.20	23155.20	24	1.24	1.24	1.24	70	192	260	Construction work in progress	1252	8312

Min. 69
Max. 76
Average 71

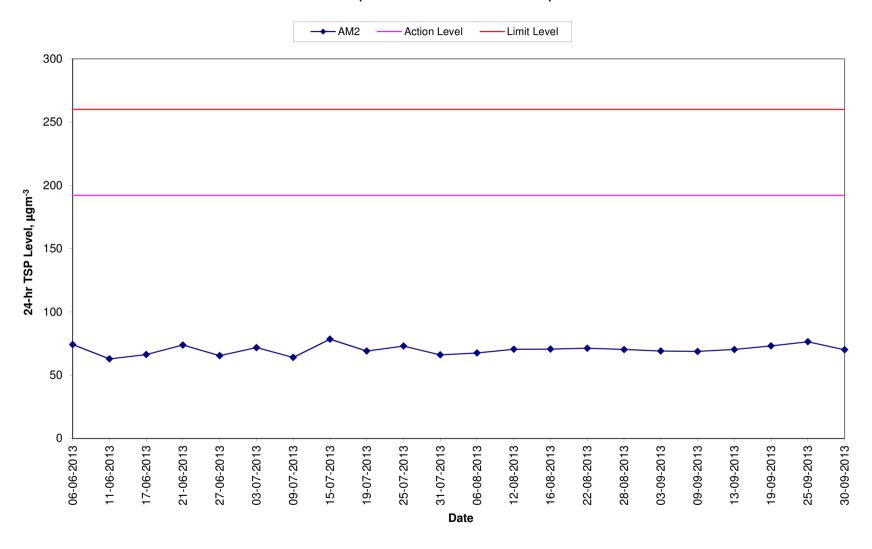
Meteorological Data Extracted from the Hong Kong Observatory

			Tue	n Mun Station		
Date	Weather	Average Air Temperature (℃)	Average Relative Humiditiy (%)	Total Rainfall (mm)	Average Wind Speed (km/h)	Wind Direction
03-09-2013	Cloudy	26.5	82-98	5.0	8.0	W-SE
04-09-2013	Cloudy	23.0	90-99	88.9	9.0	SE
09-09-2013	Sunny	28.0	65-85	0.0	15.0	SE-E
10-09-2013	Sunny	28.0	66-88	0.0	12.0	N-E
13-09-2013	Sunny	28.0	72-87	0.2	12.0	S-N
14-09-2013	Rainy	28.0	68-88	0.0	12.0	W-SE
19-09-2013	Cloudy	28.0	62-86	0.0	18.0	SE
20-09-2013	Cloudy	29.0	58-87	0.0	9.0	NW-N
25-09-2013	Sunny	28.0	67-86	Trace	15.0	N-E
26-09-2013	Sunny	25.0	66-84	0.1	9.0	N-NE
30-09-2013	Sunny	23.0	84-97	10.0	9.0	N
01-10-2013	Sunny	27.0	71-88	0.0	8.0	SE-N

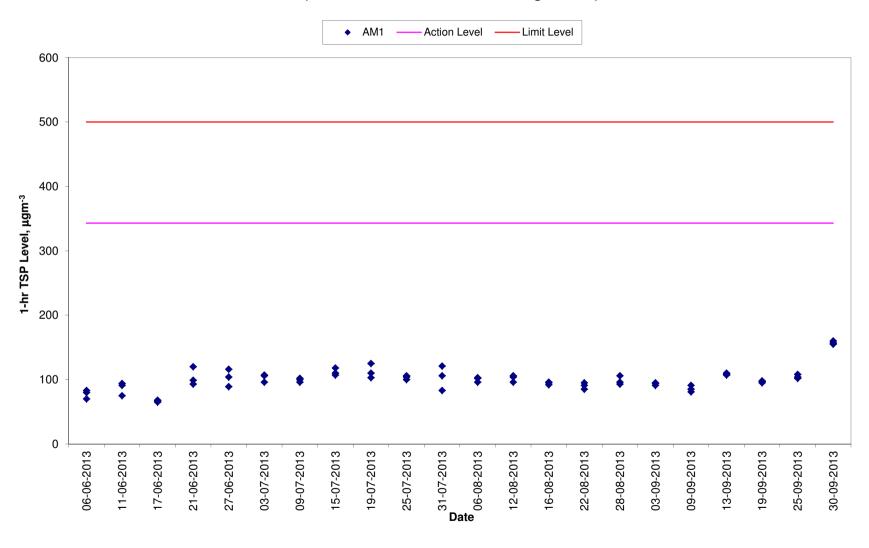
24-hr TSP Levels for the Past 4 Months AM1 (River Trade Terminal Office)



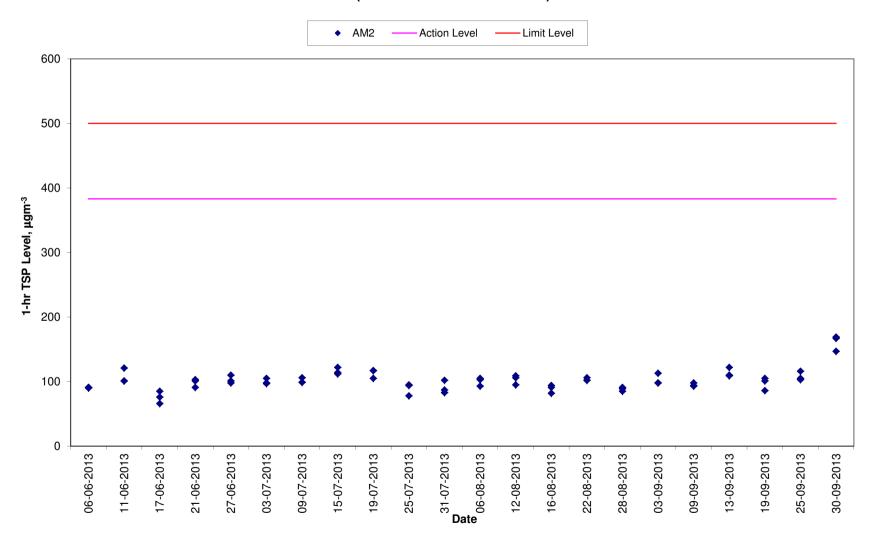
24-hr TSP Levels for the Past 4 Months AM2 (River Trade Terminal Office)



1-hr TSP Levels for the Past 4 Months AM1 (Tuen Mun EMSD Vehicle Servicing Station)



1-hr TSP Levels for the Past 4 Months AM2 (River Trade Terminal Office)



Annex H

Event/Action Plan for Air Quality Monitoring

Table H1 Event Action Plan for Air Quality Monitoring

Action Level/Limit Level	Environmental Team Leader (ETL)	Independent Environmental Checker (IEC)	Supervising Officer Representative (SOR)	Contractor
Action Level				
Exceedance for one sample	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and SOR; Repeat measurement to confirm findings; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	Notify Contractor and DSD.	 Rectify any unacceptable practice; Amend working methods if appropriate.
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and SOR; Advise the SOR on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and SOR; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor and DSD; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.

Action Level/Limit Level	Environmental Team Leader (ETL)	Independent Environmental Checker (IEC)	Supervising Officer Representative (SOR)	Contractor
Limit Level				
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, SOR, DSD and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, DSD and SOR informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the SOR on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Exceedance for two or more consecutive samples	 Notify IEC, SOR, DSD 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 and SOR to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, DSD and SOR informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst SOR, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SOR accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consolidation with the 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 further exceedance; Submit proposals for remedial actions to IEC within three 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 SOR until the exceedance is abated.

Annex I

Implementation Schedule of Mitigation Measures

Annex I Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status				
Summary of Envi	Summary of Environmental Mitigation Measures in the EIA and EM&A Manual						
Construction Pha	se						
Air Quality	Dust mitigation measures stipulated in <i>the Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> shall be incorporated to control Post emission. Notice shall be given to authority prior to commencing of work.	Work sites / during construction period	Notice of works commencement was submitted to EPD on 3 August 2010.				
Water Quality	The practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted. It is recommended to install perimeter channels in the works areas to intercept runoff as site boundary prior to the commencement of any earthwork. To prevent storm runoff from washing across exposed soil surfaces, intercepting channels should be provided. Drainage channels are also required to convey site runoff to sand/silt traps and oil interceptors. Provision of regular cleaning and maintenance can ensure the normal operation of these facilities throughout the construction period. Any practical options for the diversion and re-alignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Work site/During the construction period					
Water Quality	There is a need to apply to EPD for a discharge license under the WPCO for discharging effluent from the construction site. The discharge quality is required to meet the requirements specified in the discharge license. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Reuse and recycling of the treated effluent can minimize water consumption and reduce the effluent discharge volume. The beneficial uses of the treated effluent may include dust suppression, wheel washing and general cleaning. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD.	Work site/During the construction period	√ Discharge licence was awarded by EPD on 7 December 2010.				
Water Quality	The construction programme should be properly planned to minimize soil excavation, if any, in rainy seasons. This prevents soil erosion from	Work site/During the construction period	√				

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Impace	exposed soil surfaces. Any exposed soil surfaces should also be properly protected to minimize dust emission. In areas where a large amount of exposed soil exists, earth bunds or sand bags should be provided. Exposed stockpiles should be covered with tarpaulin or impervious sheets at all times. The stockpiles of materials should be placed at locations away from any stream course so as to avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted and protected by permanent work. It is suggested that haul roads should be paved with concrete and the temporary access roads protected using crashed stone or gravel, wherever practicable. Wheel washing facilities should be provided at all site exists to ensure that earth, mud and debris would not be carried out of the works areas by vehicles.		
Water Quality	Good sites practices should be adopted to clean the rubbish and litter on the construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	Work site/During the construction period	√ ·
Water Quality	The presence of construction workers generates sewage. It is recommended to provide sufficient chemical toilets in the works areas. The toilet facilities should be more than 30m from any watercourse. A licensed water collector should be deployed to clean the chemical toilets on a regular basis. The construction workers can also make use of the existing toilet facilities within the PPSTW as necessary.	Work site/During the construction period	√ ·
Water Quality	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the project. Regular environmental audit on the construction phase of the project. Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site.	Work site/During the construction period	√ ·
Waste Management	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation	Work site/During the construction period	√ ·

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
-	should be observed and complied with for control of chemical wastes.		
Waste Management	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and stumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Work site/During the construction period	√
Waste Management	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with the chemical wastes. General requirements are given as follows: • Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. • Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. • Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Work site/During the construction period	
Waste Management	 Good Site Practices Recommendations for good site practices during the construction activities include: Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site Training of site personnel in proper waste management and chemical handling procedures Provision of sufficient waste disposal points and regular collection of waste Appropriate measures to minimise windblown litter and dust 	Work site/During the construction period	
	Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by		

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	transporting wastes in enclosed containers		
	 Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 		
	Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Facility.		
Waste Management	Waste Reduction Measures	Work site/During planning & design stage, and construction stage	√
	Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:		
	 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. 		
	 Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force 		
	 Proper storage and site practices to minimise the potential for damage or contamination of construction materials. 		
	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.		
Waste Management	General Refuse	Work site / During the construction period	√ ·
Ü	General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light		
Waste	material. Construction and Demolition Material	Work site / During design stage & construction	√
Management	In order to minimise the impact resulting from collection and transportation of C&D material for off-site disposal, the excavated	period	

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
-	material generated from site formation works for the proposed new facilities and units at the STW should be reused on-site as far as practicable. The surplus excavated material should be disposed of at the designated public fill reception facility, as agreed with the Secretary of the Public Fill Committee, for other beneficial uses.		
Waste Management	 Mitigation measures and good site practices should be followed to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: Where it is unavoidable to have transient stockpiles of C&D material pending collection for disposal, the transient stockpiles shall be located away from waterfront or storm drains as far as possible. Open stockpiles of construction materials or construction wastes onsite should be covered with tarpaulin or similar fabric. Skip hoist for material transport should be totally enclosed by impervious sheeting. Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores. The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle. All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet. The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading. 	Work site / During design stage & construction period	
Waste Management	When disposing C&D material at a public filling facility, it shall be noted that the material shall only consist of earth, building debris and broken rock and concrete. The material shall be free from marine mud, household refuse, plastic, metals, industrial and chemical waste, animal	Work site/During design stage & construction period	V

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	and vegetable matter, and other material considered to be unsuitable by the Filling Supervisor. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work with reference to the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Materials" as attached in Appendix 7-1. An Independent Environmental Checker should be responsible for auditing the results of the system.		
Waste Management	Chemical Wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	
Landscape & Visual	Temporary Tree Nurseries Temporary tree nurseries may be set up for the transplanted tree and proposed trees at an early stage to allow small trees to grow during the construction periods. By the time when planting area becomes available, trees mature and increase in trunk & spread size. They will require minimal pruning and suffer much less damage during transplanting when comparing the travel distance from an on-site nursery to an off-site nursery. Besides, these trees may also be positioned as visual mitigation during	Work site/During design stage & construction period	√. A tree nursery has been set up off-site near the site office.

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	the construction period.		
Landscape & Visual	No-intrusion Zone To maximize protection to existing trees and ground vegetation, construction contracts may designate "No-intrusion Zone" to various areas within the site boundary with rigid and durable fencing for each individual no-intrusion zone. The contractor should close monitor and restrict the site working staff not to enter the "no-intrusion zone", even for non-direct construction activities and storage of equipment.	Work site/During design stage & construction period	V
Landscape & Visual	Hoarding Hoarding or boundary fencing for construction shall be considered. It should be sensitively designed, subtle, camouflaged and more 'permeable' so that they fit into the existing environment when looking from outside.	Work site/During design stage & construction period	V
Landscape & Visual	Dust and Erosion Control for Exposed Soil Excavation works and demolition of existing building blocks and which will be highly visible form surrounding areas should be well planned and with precautions to suppress dust. Exposed soil shall be covered or 'camouflaged' and watered often. Areas that are expected to be left with bare soil for a long period of time after excavation shall be properly covered with suitable protective fabric. Silt and erosion shall be controlled by ground barriers around the slope cutting area	Work site/During design stage & construction period	V
Landscape & Visual	Existing Tree Record Inventory All retained trees should be record photographically at the commencement of the Contract, and carefully protected during the construction period. Detailed tree protection specification shall be allowed and included in the Contract Specification, which specifying the tree protection requirement, submission and approval system, and the tree monitoring system.	Work site/During design stage & construction period	V

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Landscape & Visual	Construction Light All security floodlights for construction sites shall be equipped with adjustable shield, frosted diffusers and reflective covers, and be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC users. The Contractor shall consider other security measures which shall minimize the visual impacts.	Work site / During design stage & construction period	√
Landscape & Visual	Tree Transplanting Apart from the 18 numbers of "Leucaena leucocephala", which are proposed to be felled in accordance with ETWB TCW No. 3/2006, all the affected trees shall be transplanted. Where practicable, trees shall be directly transplanted to permanent on-site locations. The location of the transplanted tree is shown in Figure 8.9.1.	Work site / During design stage & construction period	√.
Landscape & Visual	Tree Compensation Ratio The total number of compensatory trees planted in the project area shall not be less than 1:1 ratios by new trees. Required numbers and locations of compensatory trees shall be determined and agreed with Government during the tree felling application process under ETWCTC 3/2006. Compensatory trees shall be at least heavy standard size to create "immediate" greening effect. 81 numbers of "Cassia surattensis" will be provided as the additional compensatory planting for loss of greenery in the area due to removal of the affected trees. The location of the additional compensatory planting is shown in Figure 8.9.1.	Work site / During design stage & construction period	N/A
Landscape & Visual	Re-use of Existing Soil and Advance formation of Planting Area Existing topsoil shall be re-used where possible for new planting areas within the project. Advance formation of planting area and early implementation of the plating works can minimize adverse impact on trees. The construction program shall consider using the soil removed from one phase for backfilling another. Suitable storage ground, gathering ground and mixing ground may be set up on-site as necessary.	Work site / During design stage & construction period	√ ·

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Landscape & Visual	Establishment Period 12 month establishment period for the soft landscape works will be allowed in the main contract. Most construction contracts in Hong Kong require the Contractor to carry out routine horticultural operations, including watering, pruning, weeding, pest control, replacement of dead plants etc. to ensure healthy establishment of new planting during a 12 month establishment period. This period also serves as a kind of warranty / guarantee on the quality of the plants supplied and installed by the Contractor. Monthly monitoring during the first year of establishment period is recommended.	Work site/During operation period	N/A. To be implemented during operation phase of Project.
Landscape & Visual	Re-instatement of excavated Area All excavated area and disturbed area for utilities diversion, temporary road diversion, and pipeline woks will be reinstated to former conditions, subject to applicable Government Standards.	Work site / During design stage & operation period	N/A. To be implemented during operation phase of Project.
Landscape & Visual	Appearance and Greening for the proposed structures Compatible design, construction materials and surface finishes of the proposed structure should match with the nearby existing external appearance of PPSTW buildings for achieving visual uniformity. Finishing materials shall have due consideration to form, basic color, color/tone variation, micro-and macro-texture, and reflectivity/light absorbance to avoid glare. Planting, such as turf, low groundcovers and climbers, may also be planted on top of these elements to provide greening and aesthetic effect.	Work site / During design stage & operation period	N/A. To be implemented during operation phase of Project.
Summary of Key	Environmental Mitigation Measures in Contract Requirements		
Air Quality	Only Ultra-low-sulphur diesel (ULSD) should be used for all diesel- operated plants and equipments on site	Work sites / during construction period	√
Air Quality and Noise	Plants and equipments of good operation conditions should be used on site.	Work sites / during construction period	√
Noise	No diesel hammers should be used for piling works	Work sites / during construction period	V
Noise	Construction Noise Permits (CNP) should be applied for works conducted outside non-restricted hours.	Work sites / during construction period	√
Noise	Quiet construction equipments and the quietest practicable working	Work sites / during construction period	V

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	methodologies should be adopted for works whenever feasible. Noise labels should be provided for air compressors. Hoods and cover panels of generators and air compressors should be closed during operation. Noise labels should be provided for air compressors and hand-held percussive breakers.		
Waste Management	Temporary works construction on site should minimize the use of timber to reduce the quantity of C&D waste generated during works period.	Work sites / during construction period	√
Landscape and Visual	Retained or to-be-transplanted trees on site should be properly protected from physical damages and soil compacts with temporary fencing or hessian armouring whenever feasible.	Work sites / during construction period	<>

Remark:

- √ Compliance of Mitigation Measures
- Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by ATAL-Degrémont-China State JV
- Δ Deficiency of Mitigation Measures but rectified by ATAL-Degrémont-China State JV
- N/A Not Applicable in Reporting Period

Annex J

Waste Flow Table

Contract No. : DC/2008/03 - Design, Build and Operate Pillar Point Sewage Treatment Works Monthly Summary Waste Flow Table

	Actual	Quantities of	Inert C&D Materials Ge	nerated (see No	te 13)	Actual Quar	itities of Non	-inert C&D Mat (see No		on Waste) Generated
Month	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
Nov 2010	2,248.00	0.00	0.00	55.00	2248.00	60.00	100.00	0.00	0.00	18.05 (see Note 4)
Dec 2010	11,314.00 (see Note 4)	0.00	0.00	225.00	11314.00	100.00	120.00	20.00	0.00	28.40 (see Note 4)
Jan 2011	58,383.00 (see Note 4)	0.00	0.00	3,000.00	58,382.90	250.00	280.00	60.00	0.00	4.59 (see Note 4)
Sub-total	71,945.00	0.00	0.00	3280.00	71944.90	410.00	500.00	80.00	0.00	51.04
Feb 2011	12,855.00	0.00	0.00	1,050.00	12,854.70	100.00	150.00	50.00	0.00	2.43 (see Note 4)
Mar 2011	22,859.00	0.00	0.00	1,500.00	22,858.70	150.00	180.00	55.00	0.00	9.02
Apr 2011	8,547.00 (see Note 7)	0.00	5,684.00(see Note 5, 7)	550.00	2,863.30	50.00	30.00	15.00	0.00	5.78
Sub-total	44,261.00	0.00	5684.00	3100.00	38576.70	300.00	360.00	120.00	0.00	17.23
May 2011	6,293.00 (see Note 7)	0.00	11.00 (see Note 5, 7)	425.00	6,282.00 (see Note 7)	45.00	25.00	10.00	360.00 (see Note 7)	8.83
Jun 2011	4,587.00 (see Note 7)	0.00	0.00 (see Note 7)	313.00	4,586.00 (see Note 7)	40.00	30.00	15.00	0.00	7.10
Jul 2011	523.00	0.00	0.00	25.00	522.90	15.00	5.00	10.00	0.00	7.20
Sub-total	11,403.00	0.00	11.00	763.00	11391.50	100.00	60.00	32.00	360.00	23.13
Aug 2011	571.00 (see Note 11)	0.00	0.00	50.00	571.00 (see Note 11)	0.00	0.00	15.00	450.00 (see Note 8)	6.12
Sept 2011	235.00	0.00	0.00	25.00	235	20.00	0.00	0.00	0.00	12.15 (see Note 9)
Oct 2011	5,705.00 (see Note 10)	0.00	0.00	650.00	5,705.00 (see Note 10)	100.00	0.00	0.00	0.00	2.98
Sub-total	6,511.00	0.00	0.00	725.00	6511.00	120.00	0.00	15.00	450.00	21.25
Nov 2011	6,294.00	0.00	0.00	775.00	6,294.00	50.00	0.00	0.00	0.00	44.84
Dec 2011	3,011.00	0.00	0.00	263.00	3,011.00	20.00	0.00	0.00	0.00	17.14
Jan 2012	349.00	64.00	0.00	25.00	284.60	20.00	150.00	0.00	0.00	49.01

	Actua	al Quantities of	Inert C&D Materials (P	ublic Fill) Gener	ated	Actual Qua	ntities of Non-inert Co	&D Materia	ls (Construct	tion Waste) Generated
Month	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
Sub-total	9,654.00	64.00	0.00	1063.00	9589.60	90.00	150.00	0.00	0.00	110.99
Feb 2012	3,371.00	30.00	0.00	2,810.00	3,341.00	150.00	0.00	0.00	0.00	48.72
Mar 2012	6,460.00	3,000.00	0.00	625.00	3,459.70	30.00	0.00	0.00	0.00	41.10
Apr 2012	3,774.00	3,000.00	0.00	250.00	774.40	40.00	0.00	0.00	0.00	40.01
Sub-total	13,605.00	6,030.00	0.00	3685.00	7575.10	220.00	0.00	0.00	0.00	129.83
May 2012	7,936.00	5,600.00	0.00	750.00	2,336.20	40.00	0.00	10.00	0.00	75.19
Jun 2012	13,091.00	7,500.00	0.00	875.00	5,590.80	40.00	35.50	8.00	0.00	66.74
Jul 2012	11,972.00	8,600.00	0.00	825.00	3,372.50	40.00	36.40	5.00	0.00	100.50
Sub-total	32,999.00	21,700.00	0.00	2450.00	11299.50	120.00	70.90	23.00	0.00	242.43
Aug 2012	11,660.00	11,000.00	0.00	950.00	659.80	30.00	10.00	6.00	0.00	78.77
Sept 2012	3,055.00	1,500.00	0.00	920.00	1,555.38	30.00	40.00	5.00	0.00	118.80
Oct 2012	2,657.00	200.00	0.00	500.00	2,457.01	30.00	59.40	8.00	0.00	124.04
Sub-total	17,372.00	12,700.00	0.00	2370.00	4672.19	90.00	109.40	19.00	0.00	321.61
Nov 2012	2,691.00	250.00	0.00	750.00	2,441.01	50.00	25.00	10.00	0.00	128.08
Dec 2012	4,319.00	400.00	0.00	200.00	3,919.13	60.00	20.00	15.00	0.00	165.28
Jan 2013	4,442.00	100.00	0.00	200.00	4,341.56	200.00	40.00	20.00	0.00	111.23
Sub-total	11,452.00	750.00	0.00	1150.00	10701.70	310.00	85.00	45.00	0.00	404.59
Feb 2013	1,286.00	85.00	0.00	50.00	1,201.23	180.00	35.00	16.00	0.00	99.44
Mar 2013	900.00	900.00	0.00	120.00	0.00	120.00	45.00	10.00	0.00	97.43
Apr 2013	680.00	680.00	0.00	300.00	0.00	22.00	50.00	15.00	0.00	80.21
Sub-total	2866.00	1665.00	0.00	470.00	1201.23	322.00	130.00	41.00	0.00	277.08
May 2013	1443.37	100.00	0.00	1020.00	1343.37	40.00	43.00	9.00	0.00	46.88 (see Note 16)
June 2013	1993.06	50.00	0.00	850.00	1943.06	100.00	60.00	5.00	0.00	53.89

July 2013	1246.64	100	0	1100	1146.64	100	60	10	0	71.15
Sub-total	4683.07	250.00	0.00	2970.00	4433.07	240.00	163.00	24.00	0.00	171.92
August 2013	873.73	120	0	700	753.73	50	60	8	0	63.95
September 2013	748.43	50	0	650	698.43	40	60	5	0	41.28
Total (see Note 17)	228373.23	43329.00	5695.00	23376.00	179348.65	2412.00	1748.30	415.00	810.00	1876.33

Notes:

- (1) Metal and paper/cardboard packaging were collected by recycler for recycling.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material collected by recycler for recycling.
- (3) General refuse was disposed of at WENT by subcontractors.
- (4) The waste flow data for November and December 2010, January and February 2011 was updated in March 2011based on SOR's comments and has been confirmed by the Contractor.
- (5) The inert C&D materials were reused in the Contract No. EP/SP/58/08 at Tuen Mun Tsang Tsui.
- (6) Chemical waste was collected though the licensed chemical waste collector, Dunwell Ind. (Holdings) Ltd, with the waste collection licence number 7111-757-W0015-WC.
- (7) The waste flow data for April, May and June 2011 was updated in August 2011 based on SOR's comments and has been confirmed by the Contractor.
- (8) The waste flow data of chemical waste for August 2011 was updated in October 2011 based on Contractor's revised waste flow summary.
- (9) The waste flow data of general refuse for September 2011 was updated in November 2011 based on Contractor's revised waste flow summary.
- (10) The waste flow data of C&D material for October 2011 was updated in December 2011 based on Contractor's revised waste flow summary.
- (11) The waste flow data of C&D material for August 2011 was updated in January 2011 based on SOR's comments and has been confirmed by the Contractor.
- (12) The waste flow data of metal and paper/cardboard packaging for June 2011 was revised in August 2012.
- (13) The quantity of inert and non-inert C&D material generated from May 2012 to December and imported fill material was updated by the Contractor on 6 November 2012.
- (14) The quantity of Rocks & Broken Concrete from November 2010 to November 2012 was updated by the Contractor on 12 December 2012.
- (15) The quantity of C&D material reused in this Contract in Oct, Nov and Dec 2012 were updated by the Contractor on 5 January 2012.
- (16) The quantity of general refuse in this Contract for May 2013 was updated by the Contractor in June 2013.
- (17) The quantity of total including which for last reporting period has been updated.

Annex K

Environmental Complaint, Environmental Summons and Persecution Log

Annex K Cumulative Complaint and Summons/Prosecutions Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2010	0	0
December 2010	0	0
January 2011	0	0
February 2011	0	0
March 2011	0	0
April 2011	0	0
May 2011	0	0
June 2011	0	0
July 2011	0	0
August 2011	0	0
September 2011	0	0
October 2011	0	0
November 2011	0	0
December 2011	0	0
January 2012	0	0
February 2012	0	0
March 2012	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
April 2012	0	0
May 2012	0	0
June 2012	0	0
July 2012	0	0
August 2012	0	0
September 2012	0	0
October 2012	0	0
November 2012	0	0
December 2012	0	0
January 2013	0	0
February 2013	0	0
March 2013	0	0
April 2013	0	0
May 2013	0	0
June 2013	0	0
July 2013	0	0
August 2013	0	0
September 2013	0	0
Overall Total	0	0

Annex L

Construction Programme of the Project

Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	AUG SEP OCT
mencement	and Completion of Works								
ntract Dates									
MD000160 MD000170	Original Contract Completion Date EOT granted for May 11 to Sept 2012 (98.5 days)	99	26NOV2013	25NOV2013 04MAR2014	26NOV2013	25NOV2013 04MAR2014			
naries	EOT granted for ividy 11 to ocpt 2012 (30.3 days)	1 33	20110 12013	041017112014	20140 72015	04101/41/02/014			
ral Requiren									
ntract Prelim .W005320	Operation Plan - Approval	10	07AUG2012	06SEP2013	07AUG2012	02AUG2013	07AUG2012	1	Operation Pla
W006100	O&M Manual for the Upgrade Works	90	15JAN2013	25NOV2013	15JAN2013	16APR2014	15JAN2013		Operation
.W006200	As-built Drawing for Upgrade Works	90	15OCT2013	12JAN2014	17JAN2014	16APR2014			<u> </u>
.W007100 .W007200	Submit Variation to Discharge Permit EPD Approval Variation to Discharge Permit	500 90	01MAR2011 17OCT2013	16OCT2013	01MAR2011 18DEC2013	17DEC2013 17MAR2014	01MAR2011		Su
	Checking of Permanent Works	1 00	170012010	140/1142014	10000000	17100 (1 02014	<u> </u>	<u> </u>	 - -
nission and (
omission and PD081161	DDA9A-D: Elect. sys design- RtoC x2	28	24AUG2011	04SEP2013	24AUG2011	04SEP2013	24AUG2011	1	DDA9A-D: Ele
PD081170	DDA9A-D: Elect. sys design- SO Consent Granted	0	2 # 10 0 20 11	04SEP2013	2 11 10 0 20 11	04SEP2013	2 11 10 0 20 1 1		DDA9A-D: E
PD090900	Dummy: Approve of Other DDA submission	0		04SEP2013		04SEP2013			Dummy: App
PD090990 PD513513	Dummy: Approve of all General DDA Chemical: PV sys SO Review	60	28MAY2012	04SEP2013 07SEP2013	28MAY2012	04SEP2013 07SEP2013	28MAY2012		Dummy: App Chemical: P
PD513515	Chemical: PV sys SO approved	0	201017 1 2012	07SEP2013	2011/1/12012	07SEP2013	2017/1/2012		Chemical: I
PD613183	Sludge: Centrifuge panel SO Review	50	28JUL2012 A	04SEP2013	28JUL2012 A	04SEP2013	28JUL2012		Sludge: Cent
PD613185 PD814123	Sludge: Centrifuge Panel SO approved All area: Fan SO Review	50	02JUL2012 A	04SEP2013 10SEP2013	02 11 11 2012 14	04SEP2013 10SEP2013	02JUL2012		Sludge: Cer
PD814123 PD814125	All area: Fan SO Review All area: Fan SO approved	0	UZJULZUIZ A	10SEP2013 10SEP2013	UZJULZUTZ F	10SEP2013 10SEP2013	UZJULZU1Z		All area: Far
PD814213	All area: FS. panel SO Review	28	28JUL2012 A	13SEP2013	28JUL2012 A	13SEP2013	28JUL2012		All area: FS
PD904180	Refurbish: DDA 25A~D E&M - SO Review	28	14JAN2013	30AUG2013	14JAN2013	30JUL2013	14JAN2013		Refurbish: DDA
PD904181 PD916316	Refurbish: DDA 25A~D E&M - RtoC x2 Mis: DDA 28B1 MH & Pipe Works RtoC x2	28 28	02SEP2013 * 25APR2012	11OCT2013 04SEP2013	31JUL2013 25APR2012	06SEP2013 28AUG2013	25APR2012	-	Mis: DDA 28E
PD923051	Mis: DDA 28E - N1N2 MH - RtoC x2	28	25APR2012	04SEP2013	25APR2012	24AUG2013	25APR2012		Mis: DDA 28E
PD923650	Mis: DDA 28H Cable Duct & DP - SO Review	28	04OCT2012		04OCT2012	30AUG2013	04OCT2012		Mis: DDA 28H
PD923651 PD999910	Mis: DDA 28H Cable Duct & DP - Rtoc x2 Dummy: End of Design Stage	28	31AUG2013 11OCT2013	27SEP2013 11OCT2013	31AUG2013 07SEP2013	27SEP2013 07SEP2013			Mis: DD
d Structural		<u> </u>	110012010	110012010	070272010	0.02.20.0	1	<u> </u>	1 1
	ced Primary Treatement System								
Iding and Stu CC156650B	CEPT: MCC Bonntile to external wall	7	28AUG2013	03SEP2013	18DEC2013	24DEC2013	<u> </u>	1	CEPT: MCC E
CC156660B	CEPT: MCC Gravel on roof	6	04OCT2013		24JAN2014	29JAN2014			□ CEP
CC157110B	CEPT: Screeding to north-west stair	3	01DEC2013 *		12MAR2014	14MAR2014			i i
CC157120B CC200175	CEPT: Nosing tile to north-west stair CEPT Tank: Remaining ABWF Work	3 84	04DEC2013 18JAN2013	06DEC2013 02SEP2013	15MAR2014 18JAN2013	17MAR2014 12AUG2013	18JAN2013		CEPT Tank: F
CC150200 CC160982B CC160984B CC162860B	PTW: Remaining ABWF PTWN: Screeding to staircase PTWN: Nosing Tile to staircase PTWS: Precast concrete cover to channel	90 4 2 2	02DEC2013 * 01DEC2013 * 05DEC2013 27MAY2013	25MAR2014 04DEC2013 06DEC2013 28AUG2013	23DEC2013 03APR2014 07APR2014 27MAY2013	16APR2014 06APR2014 08APR2014 21MAR2014	27MAY2013		PTWS: Precast
	PTWS: Washed grano to staircase	4		04DEC2013		25MAR2014			7-7
ection System	PTWS: Non-slip nosing tile to staircase	2	05DEC2013	06DEC2013	26MAR2014	27MAR2014			! !
lding and Sti									
	UV: Bonnite to columns	6	01DEC2013 *		11JAN2014	16JAN2014			
CC300975B CC301045B	UV: FRP covers UV: Precast concrete cover	6 2	01DEC2013 05DEC2013	06DEC2013 06DEC2013	11JAN2014 15JAN2014	16JAN2014 16JAN2014			
CC301100B	UV: Gravel on roof	6	01DEC2013 *		11JAN2014	16JAN2014			i i
CC301110B e Treatmen	UV: Cat ladder	3	01DEC2013 *	03DEC2013	14JAN2014	16JAN2014			
ding and St									i i
CC600510	SDB: Remaining ABWF Work	60	28AUG2013		18NOV2013	29JAN2014			
CC601450 CC601460	Skip Storage Bldg: Remove Temp Support Skip Storage Bldg: ABWF Work	18	31AUG2013 28OCT2013	12SEP2013 30NOV2013	31AUG2013	16SEP2013 24OCT2013	31AUG2013		Skip Storag
CC601460 CC601465	Skip Storage Bldg: ABWF Work Skip Storage Bldg: Handover to E&M Works	30 0	200012013	30NO V2013 30NO V2013	17SEP2013	24OCT 2013 24OCT 2013			
CC601500	Skip Storage Bldg: Remaining ABWF Works	60	02DEC2013	18FEB2014	18NOV2013	29JAN2014			14-4
CC602590B	SDB: FRP cover at polymer area	4	01DEC2013 *		13JAN2014	16JAN2014			CDD: WE
CC602720B	SDB: Window, Louver and Door at G/F SDB: FRP covers to centrifuge area	16 5	28AUG2013 28AUG2013		08OCT2013 19OCT2013		 	-	SDB: Wind
CC603040B	SDB: Screeding to staircase 3&4	4	27SEP2013	30SEP2013	24OCT2013	27OCT2013			SDB: S
C603050B	SDB: Nosing tile to staircase 3&4	2	01OCT2013			29OCT2013			SDB:
CC603060B CC603070B	SDB: Skirting to staircase 3&4 SDB: Anti-mould paint to staircase 3&4	4	03OCT2013 07OCT2013	06OCT2013 10OCT2013	03NOV2013	02NOV2013 06NOV2013	 		I I SDB
C603075B	SDB: Railing to staircases 3&4	8	11OCT2013	18OCT2013	07NOV2013	14NOV2013			l l □si
CC603080B	SDB: Screeding to staircase1&2	8	28AUG2013		24SEP2013	01OCT2013			SDB: Screedi
CC603090B CC603100B	SDB: Nosing tile to staircases 1&2 SDB: Anti-mould paint to staircase 1&2	6	05SEP2013 09SEP2013	08SEP2013 14SEP2013	02OCT2013 06OCT2013		-		SDB: Nosing
CC603105B	SDB: Railing to staircases 1&2	12	15SEP2013	26SEP2013	12OCT2013	23OCT2013			SDB: R
CC603110B	SDB: Touch-up concrete surface	3	27SEP2013	29SEP2013	23SEP2013	25SEP2013			SDB: T
CC603120B	SDB: Waterproofing membrane on roofs SDB: Water test at roof	14 12	30SEP2013 10OCT2013	13OCT2013 21OCT2013	26SEP2013 06OCT2013	09OCT2013 17OCT2013	 	<u> </u>	F SD F SD
C603140B	SDB: Insulation board on roof	12	16OCT2013	27OCT2013	120CT2013	23OCT2013			┼┼-┤┺
te 14J	UL2010 Page 1A of 9A	1		•					arly bar
te 28A	Page 1A of 8A UG2013 EP2013 PPSTW Programme R7		s up to 2		3 - Three	Months F	Rolling	F	Progress bar Critical bar Summary bar

Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual A Start F	Actual
CC603150B	SDB: Screeding on roof	14	22OCT2013	04NOV2013	18OCT2013	31OCT2013		l Sc
CC603160B	SDB: Bonntile textured coating system	28	30SEP2013	27OCT2013	04OCT2013	31OCT2013		SDE
CC603170B CC603180B	SDB: FRP stair and railing	21	29OCT2013	18NOV2013	25OCT2013	14NOV2013		
CC603180B	SDB: Skylight SDB: Cat ladder to roofs	12 14	05NOV2013 05NOV2013	16NOV2013 18NOV2013	03NOV2013 01NOV2013	14NOV2013 14NOV2013		
CC603310B	Skip: Underground pipe work	12	28AUG2013	08SEP2013	22JUL2013	02AUG2013		Skip: Undergrour
CC603320B	Skip: Excavate to formation	4	09SEP2013	12SEP2013	03AUG2013	06AUG2013		Skip: Excavate
CC603330B	Skip: Blinding to storage building	2	13SEP2013	14SEP2013	07AUG2013	08AUG2013	1	Skip: Blinding t
CC603340B	Skip: Formwork to raft at storage building	3	15SEP2013	17SEP2013	09AUG2013	11AUG2013		■ Skip: Formwor
CC603350B	Skip: Steel fixing to raft at storage building	4	18SEP2013	21SEP2013	12AUG2013	15AUG2013	i	Skip: Steel fix
CC603360B	Skip: Kicker formwork to storage building	3	19SEP2013	21SEP2013	13AUG2013	15AUG2013		∣ Skip: Kicker f
CC603370B	Skip: Concrete to raft at storage building	1	22SEP2013	22SEP2013	16AUG2013	16AUG2013		Skip: Concre
CC603380B	Skip: Remove formwork to raft	2	23SEP2013	24SEP2013	17AUG2013	18AUG2013		□ Skip: Remov
CC603390B	Skip: Erect scaffold support	4	25SEP2013	28SEP2013	19AUG2013	22AUG2013		Skip: Erect
CC603400B CC603410B	Skip: Internal and soffit fwk to pump room Skip: Steel fixing to wall and roof to pump room	10	29SEP2013 04OCT2013	08OCT2013	23AUG2013 28AUG2013	01SEP2013 01SEP2013		Skip: Int
CC603410B	Skip: Cast-in items to pump room	2	09OCT2013	100CT2013	02SEP2013	03SEP2013		Skip: Ca
CC603430B	Skip: Checking and cleaning at pump room	1 1	11OCT2013	11OCT2013	04SEP2013	04SEP2013		Skip: Ch
CC603440B	Skip: Concrete to wall /roof at pump room	1	12OCT2013	12OCT2013	05SEP2013	05SEP2013		Skip: C
CC603450B	Skip: Curing at pump room	8	13OCT2013	20OCT2013	20SEP2013	27SEP2013		Skip:
CC603460B	Skip: Remove scaffold & fwk at pump room	6	21OCT2013	26OCT2013	28SEP2013	03OCT2013		■ Skip
CC603470B	Skip: Watermeter cabinet	5	22OCT2013	26OCT2013	29SEP2013	03OCT2013		■ Skip
CC603550B	Skip: Internal / soffit fwk to storage building	7	13OCT2013	19OCT2013	06SEP2013	12SEP2013		■ Skip:
CC603560B	Skip: Steel fixing to storage building	5	20OCT2013	24OCT2013	13SEP2013	17SEP2013		□ Skip
CC603570B	Skip: Cast-in items to storage building	2	25OCT2013	26OCT2013	18SEP2013	19SEP2013		I Skip
CC603580B	Skip: External formwork to storage building	5	27OCT2013	31OCT2013	20SEP2013	24SEP2013	ļ	l I Isk
CC603590B	Skip: Checking and cleaning to storage building	1 1	01NOV2013	01NOV2013	25SEP2013	25SEP2013	ļ	
CC603600B	Skip: Concrete wall / roof to storage building	1	02NOV2013	02NOV2013	26SEP2013	26SEP2013	ļ	I I ISI
CC603610B CC603620B	Skip: Curing Skip: Remove scaffold / fwk to storage building	8 5	03NOV2013 11NOV2013	10NOV2013 15NOV2013	27SEP2013 05OCT2013	04OCT2013 09OCT2013		
CC603620B CC603710B	Skip: Steel fixing to parapet	2	03NOV2013	04NOV2013	29SEP2013	30SEP2013	<u> </u>	
CC603710B	Skip: Formwork to parapet	3	05NOV2013	07NOV2013	01OCT2013	03OCT2013		
CC603720B	Skip: Concrete to parapet	1 1	08NOV2013	08NOV2013	04OCT2013	04OCT2013		
CC603810B	Skip: Touch-up concrete surface at pump room	6	10NOV2013	15NOV2013	04OCT2013	09OCT2013		<u> </u>
CC603820B	Skip: Screeding to floor at pump room	5	10NOV2013	14NOV2013	07OCT2013	11OCT2013		7 1
CC603830B	Skip: Door and louver at pump room	3	15NOV2013	17NOV2013	12OCT2013	14OCT2013		- ! !
CC603840B	Skip: Epoxy skirting to pump room	2	18NOV2013	19NOV2013	15OCT2013	16OCT2013		
CC603850B	Skip: Anti-mould paint to wall at pump room	3	20NOV2013	22NOV2013	17OCT2013	19OCT2013		
CC603860B	Skip: Touch-up concrete surface at storage bldg	3	23NOV2013	25NOV2013	20OCT2013	22OCT2013		
CC603870B	Skip: Door and louver to storage building	5	26NOV2013	30NOV2013	23OCT2013	27OCT2013		
CC603880B	Skip: Epoxy coating to floor at storage building	4	01DEC2013	04DEC2013	28OCT2013	31OCT2013		1 1 1
CC603890B	Skip: Epoxy skirting at storage building	3	05DEC2013	07DEC2013	01NOV2013	03NOV2013		
CC603900B	Skip: Waterproofing membrane on roofs	3	10NOV2013	12NOV2013	04OCT2013	06OCT2013		
CC603910B CC603920B	Skip: Water test	2	10NOV2013 13NOV2013	12NOV2013 14NOV2013	04OCT2013	06OCT2013		
CC603920B	Skip: Insulation board on roofs Skip: Screeding on roofs	4	15NOV2013	18NOV2013	07OCT2013	08OCT2013		
CC603930B	Skip: Skip light	6	19NOV2013	24NOV2013	13OCT2013	180CT2013		
CC603950B	Skip: Color gravel on roof	3	25NOV2013	27NOV2013	19OCT2013	21OCT2013		
CC603960B	Skip: Render with Bonntile to external wall	6		03DEC2013				
	Skip: Door for water meter cabinet	3		06DEC2013				7 - 7 - 1-
	lection Facilities				<u> </u>		<u> </u>	! ! !
uilding and Str	uctures							
CC150220	Septic: Remaining ABWF Works	40	28MAY2013	05OCT2013	28MAY2013	26OCT2013	28MAY2013	Septic: R
CC170740B	Septic: FRP frame for louver	1	28AUG2013	28AUG2013	28AUG2013	28AUG2013		Septic: FRP frame f
	Septic: Insulation board on roof	1	28AUG2013		28AUG2013	28AUG2013	i	Septic: Insulation bo
	Septic: Cement sand screeding on roof	2	28AUG2013		28AUG2013	28AUG2013		Septic: Cement san
	Septic : Gravel on roof	2	01DEC2013 *		05APR2014	06APR2014		
CC170940B	Septic: Bonntile to external wall and column	12	01DEC2013	12DEC2013	05APR2014	16APR2014		
	Septic: Door for watermeter cabinet /pillar box	2	28AUG2013	29AUG2013	20OCT2013	21OCT2013		Septic: Door for wa
liary Building								
uilding and Str CC320200	uctures RWPS: Remaining ABWF	1 60	28/11/2011	108NOV/2042	118NOV/2012	120 14 12044		
	RWPS: Remaining ABWF RWPS: Granular fill	60		08NOV2013 29AUG2013	18NOV2013 28AUG2013			RWPS: Granular fi
	RWPS: Granular fill RWPS: Remove scaffold and fwk	3		30AUG2013		13SEP2013		RWPS: Granular fi
	RWPS: Touch-up concrete surface	4		31AUG2013		13SEP2013		RWPS: Touch-up
	RWPS: Bund wall at polymer storage area	3	28AUG2013		11SEP2013	13SEP2013	 	RWPS: Bund wall a
	RWPS: Polymer membrane at retention tank	4	30AUG2013		25SEP2013	28SEP2013	-	RWPS: Polymer n
	RWPS: Frame for Door, window and louver	6	01SEP2013	06SEP2013	23SEP2013	28SEP2013		RWPS: Frame fo
	RWPS: Epoxy skirting at polymer storage area	2	07SEP2013	08SEP2013	29SEP2013	30SEP2013	1	RWPS: Epoxy sl
	RWPS: Screeding to polymer storage area	4	29AUG2013	01SEP2013	11SEP2013	14SEP2013	i	RWPS: Screeding
	RWPS: Anti-mould paint at polymer storage area	5	02SEP2013	06SEP2013	15SEP2013	19SEP2013		RWPS: Anti-mou
CC320930B	RWPS: Epoxy coating to polymer storge area	2	09SEP2013	10SEP2013	01OCT2013	02OCT2013		RWPS: Epoxy c
	RWPS: Screeding to DAF1 &2	4	07SEP2013	10SEP2013	20SEP2013	23SEP2013		I ■RWPS: Screedii
	RWPS: Anti-mould paint to DAF1&2	5	11SEP2013	15SEP2013	24SEP2013	28SEP2013		I ■ RWPS: Anti-m
	RWPS: Epoxy coating to DAF1&2	2	16SEP2013	17SEP2013	29SEP2013	30SEP2013		RWPS: Epoxy
	RWPS: Epoxy skirting to DAF1&2	3	18SEP2013	20SEP2013	01OCT2013	03OCT2013		RWPS: Epox
	RWPS: FRP platform /rail in DAF room	4	21SEP2013	24SEP2013	04NOV2013	07NOV2013		RWPS: FRF
	RWPS: Waterproof membrane on roof	3	21SEP2013	23SEP2013	04OCT2013	06OCT2013		RWPS: Water
	RWPS: Water test	3	24SEP2013	26SEP2013	07OCT2013	09OCT2013		RWPS: Wat
CC321030B	RWPS: Insulation board RWPS: Screeding on roof	3	27SEP2013 29SEP2013	28SEP2013	100 CT 2013	110CT2013		RWPS: Ins
CC321040B				01OCT2013	12OCT2013	14OCT2013	· I	■ RWPS · Sc

 Finish date
 08JUN2014

 Data date
 28AUG2013

 Run date
 26SEP2013

 Page number
 2A

 Project name
 PR37

 ? Primavera Systems, Inc.



Company Comp		Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	2013 AUG SEP OCT
Colorion	CC321050B	Ŭ								□ RWPS
Communication Communicatio										I RWF
COMMISSION Comm. Fire Fire for a physics properties norm										
Company Comp										i i i
COMPATIBLE Colors Markercontrol A ABAUSCINS SERPEZION								 		1
Commonweight Comm								 		Chem: Waterpro
Colonia Colonia Strooding on rol	C500920B	· ·						i i		Chem: Water te
Commonstration Comm	CC500930B	1						i i		Chem: Insulati
C-20000000 Comm. Tentured contring to external well 28 SSEP_PG15 2007 (2013) SNOV2013 SNOV2013 SNOV2012 Comm. Comm	CC500940B							i i		☐ Chem: Scree
CRISTING Bits Femaning ASWF Work 03 380/V2013 300/V2013 17AA02014 17AA0201	CC500950B	Chem: Photovoltaic glazing	14	12SEP2013	25SEP2013	03OCT2013	16OCT2013	i i		Chem: Ph
Seed Blay 1: Remaining ABNET Work 60 1380/V2012 00C70215 1380/V2012 10C50210 1200/V2012 1200/	CC500960B	Chem: Textured coating to external wall	28	26SEP2013	23OCT2013	17OCT2013	13NOV2013	i i		CI
2015/00/00 Elex Green confrag. 7 0205.02/00/13 0204.02/00/13 0204.02/00/13 0205	CC800310		75	28AUG2013	26NOV2013	19OCT2013	17JAN2014	i i		
Seed Blag 3: Remarking ABWF Work 90 284U2011 200C72013 200F2013 200C72013 1 1 1 1 1 1 1 1 1	CC910180	Elect Bldg 1: Remaining ABWF Work	60	13NOV2012	02OCT2013	13NOV2012	19DEC2013	13NOV2012		Elect Bl
EB3 Security Sec	CC910570B		7	02DEC2013 *	09DEC2013	09JAN2014	16JAN2014			
238000069 ES3. Water test on roof	CC930180		50		28OCT2013	24SEP2013	22NOV2013			
Composition	CC930620B									EB3: Waterproof
SERVICE SERV		<u> </u>								EB3: Water tes
2000000000000000000000000000000000000								<u> </u>		EB3: Insulation
Committee Comm		·								EB3: Screeding
Carproll Carle Nauer Commercement of Construction 0 2AAU-0019 MORECOD13 MORECO								ļļ		EB3: Cem
Committed and Resource Executation					2/5EP2013		ZZNO V2013	ļļ		EB3: Gra
Selection of Communication Selection					1070=00010		LAODEOGES	<u> </u>		Gate House: Co
Selection Company Co			<u> </u>	U2DEC2013 *	U7DEC2013	U4DEC2013	10DEC2013			+
M0019186 SHE: Internat ARWF										1 1 1
M001968 SHE Freet working platform for gestering wish 2 30NOV2013 30SC2013 30CV2013 30NOV2013 30NO			1 04	142 11 11 2040 4	Linerpoore	142 11 11 2042 4	LOENIO VOCAC	1421111 2042		CUD. Interes
M001268B SHE. Erect working platform for plastering wise 2 980V2013 190V2013 170C12013 30OCT2013 3		1						12JUL2013		SHB; Internal
Mod19289 SHE Pestering to Genset and DG rooms								<u> </u>		
Militage Selection Content of Content and OF corons 6 27NoV2013 G8DEC2013 3NOCT2013 3NOV2013							ı	ļ ļ		
Modifying SHE Parting to Genet and DG rooms 6 IODEC2013										1: : :
Mileseance Works										-
### MONOSCORE EBAL Water tend 3 170CT2013 180CT2013 180EC2013 200EC2013 200E			1 0	02DEC2013	07DEC2013	310012013	00NO V2013			
Mide6898 Eb4: Water perior										i i i
Milose068 EB4 Water test			1 2	15OCT 2013	16OCT2013	16DEC2013	17DEC2013			I I IEB4
Milose080 E84: Insulation board										I I ∎EB
Mindeling East Sceeding on roof 2 210CT2013 220CT2013 23DEC2013										I IEE
Millogroup EB4. Cement render to external wall 10 20/CT2013 01NOV2013 23/EC2013 02/AN2014		<u> </u>						 		i let
Mind		ů								
Incompage Inco		1								-
WM101093 Flowmeter: Tempinal Manhole modification 20 23AUG2013 23AUG	nal Works									1 1 1
WM101065 Flowmeter: Treminal Manhole modification 20 23AUG2013 ORSEP2013 23AUG2013 23AUG										i i
Mind										Flowmete
WIND10180 Flowmeter: Replace Pipeline 1 16 20SEP.2013 30SEP.2013 30SEP.								23AUG2013		Flowmeter: Tre
WM101190 Flowmeter: Const. Weir 1 at Extg Outfail Manhole 16 60 60CT2013 21 10CT2013 19 10 PEP2013 40 PEP201										I Flowmeter: Te
WM101100 Flowmeter: Replace Pipeline 2 16 12NOV2013 27NOV2013 28OCT2013 12NOV2013 12NO										I Flowm
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	VM101300 VM101350 VM101650 VM101655 VM101670 VM101670 VM101700 VM101700 VM101710 VM101740 VM101740 VM101790 VM101790 VM102070 VM102070 VM102070 VM102020 VM102020 VM102020 VM200220B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B VM200250B	Boundary Wall: Footing Boundary Wall: Wall Stem Formation of Access M002 0+00 to 0+80 Construction of Access M010 Construction of Access M010 Construction of Access M010 Formation of Access M010 Formation of Access M006 0+00 to 0+50 Construction of Access M005 Formation of Access M005 Formation of Access M008 Construction of Access M008 Construction of Access M003 (PTWN) Formation of Access M003 (PTWN) Removal of Existing Weighbridge Construction of Weighbridge Connection to extg Pump Station Laying Pipe Ducts, Trenches and Utilities Laying LIV cable duct Laying ELV cable duct Sitewide Watermain Watermain at EB1 Backfill and Remove Sheet Piling East Construct manhole N2 Complete benching and platform in N2 Backfill and remove sheet pile at N2 Clearance at N2 Construct Base and Chamber Wall of N1	90 90 90 14 35 15 30 15 50 20 12 30 12 6 40 95 360 100 116 84 20 24 40 14 24 10 37	14JAN2013 29JAN2013 19OCT 2013 05NOV2013 112OCT 2013 31OCT 2013 20NOV2013 11NOV2013 30AUG 2013 28AUG 2013 28AUG 2013 28AUG 2013 28AUG 2013 28AUG 2013 28AUG 2013 28AUG 2013 28AUG 2013 26APR2013 26APR2013 26APR2013 26APR2013 27OCT 2013 15SEP 2013 26APR2013	26NOV2013 02DEC2013 04NOV2013 14DEC2013 04DEC2013 06DEC2013 06DEC2013 10JAN2014 23SEP2013 10SEP2013 23NOV2013 23NOV2013 29NOV2013 20NOV2013 22OCT2013 28OCT2013 28OCT2013 15SEP2013 15SEP2013 14SEP2013 14SEP2013 14SEP2013 24SEP2013 24SEP2013	14JAN2013 29JAN2013 14DEC2013 03JAN2014 05OCT 2013 14DC 2013 24OCT 2013 14DC 2013 14DC 2013 14DC 2013 15DC 2013 18NO V2013 18NO V2013 12OCT 2013 16AUG 2013 16AUG 2013 26APR2013 26APR2013 26APR2013 05JUN2012 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013	12DEC2013 02JAN2014 18FEB2014 23OCT2013 27NOV2013 27NOV2013 02DEC2013 03OCT2013 30NOV2013 30NOV2013 15OCT2013 14SEP2013 19DEC2013 19DEC2013 15SEP2013 11DEC2013 11DEC2013 18AUG2013 18AUG2013 08AUG2013	29JAN2013 05JUN2012 18FEB2013 18FEB2013 26APR2013 26APR2013 26APR2013		Formation Formation of Removal of Exi Watermain a Backfill and Construct manh Complete be
	VM101300 VM101350 VM101650 VM101655 VM1016670 VM101670 VM101670 VM101700 VM101700 VM101710 VM101730 VM101740 VM101740 VM101790 VM102070 VM102070 VM102070 VM102070 VM1020208 VM2002508	Boundary Wall: Footing Boundary Wall: Wall Stem Formation of Access M002 0+00 to 0+80 Construction of Access M010 Construction of Access M010 Construction of Access M010 Formation of Access M006 0+00 to 0+50 Construction of Access M005 Formation of Access M005 Formation of Access M005 Formation of Access M008 Construction of Access M003 Construction of Access M003 (PTWN) Removal of Existing Weighbridge Construction of Weighbridge Connection to extg Pump Station Laying Pipe Ducts, Trenches and Utilities Laying ELV cable duct Laying ELV cable duct Sitewide Watermain Watermain at EB1 Backfill and Remove Sheet Piling East Construct manhole N2 Complete benching and platform in N2 Backfill and remove sheet pile at N2 Clearance at N2 Construct Base and Chamber Wall of N1 revove hoarding and cleance inside N1	90 90 90 14 35 15 30 15 50 20 12 30 12 6 40 95 360 100 1116 84 20 24 40 14 15 10 10 10 10 10 10 11 10 10 10	14JAN2013 29JAN2013 19OCT 2013 05NOV2013 112OCT 2013 31OCT 2013 20NOV2013 11NOV2013 28AUG 2013 25NOV2013 25NOV2013 28AUG 2013 28AUG 2013 28AUG 2013 28AUG 2013 28AUG 2013 28AUG 2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 27OCT 2013 15SEP 2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013	26NOV2013 02DEC2013 04NOV2013 14DEC2013 04DEC2013 06DEC2013 06DEC2013 10JAN2014 23SEP2013 10SEP2013 31DEC2013 23NOV2013 09NOV2013 19DEC2013 22OCT2013 20NOV2013 15SEP2013 15SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 24SEP2013 25SEP2013 25SEP2013	14JAN2013 29JAN2013 14DEC2013 03JAN2014 05OCT2013 24OCT2013 11NOV2013 04OCT2013 18NOV2013 28OCT2013 18NOV2013 28OCT2013 16AUG2013 28AUG2013 28AUG2013 26APR2013 26APR2013 26APR2013 05JUN2012 16AUG2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013	12DEC2013 02JAN2014 18FEB2014 23OCT2013 27NOV2013 27NOV2013 02DEC2013 03OCT2013 30NOV2013 30NOV2013 15OCT2013 03OCT2013 14SEP2013 14SEP2013 19DEC2013 15SEP2013 11DEC2013 14SEP2013 11DEC2013 04AUG2013 18AUG2013 18AUG2013 08AUG2013	29JAN2013 05JUN2012 18FEB2013 18FEB2013 26APR2013 26APR2013 26APR2013		Formation Formation of Removal of Exi Watermain a Backfill and Construct manh Complete be Clearance Construct revove
VM200475B Pre-loading Test 7 03OCT2013 09OCT2013 16AUG2013 22AUG2013	VM101300 VM101350 VM101650 VM101655 VM101655 VM101675 VM101670 VM101670 VM101700 VM101700 VM101700 VM101750 VM101750 VM101750 VM101750 VM102170 VM102170 VM102170 VM102070 VM102180 VM200250B VM200250B VM200250B VM200270B VM200270B VM200408B VM200460B VM200460B	Boundary Wall: Footing Boundary Wall: Wall Stem Formation of Access M002 0+00 to 0+80 Construction of Access M010 Construction of Access M010 Construction of Access M010 Formation of Access M006 Formation of Access M005 Formation of Access M005 Formation of Access M005 Formation of Access M005 Formation of Access M008 Construction of Access M008 Construction of Access M003 (PTWN) Formation of Access M003 (PTWN) Removal of Existing Weighbridge Construction of Weighbridge Construction of Weighbridge Connection to extg Pump Station Laying Pipe Ducts, Trenches and Utilities Laying LV cable duct Laying ELV cable duct Sitewide Watermain Watermain at EB1 Backfill and Remove Sheet Piling East Construct manhole N2 Complete benching and platform in N2 Backfill and remove sheet pile at N2 Clearance at N2 Construct Base and Chamber Wall of N1 I revove hoarding and cleance inside N1	90 90 14 35 15 30 15 50 20 12 30 12 6 40 95 360 100 116 84 20 24 40 14 14 24 10 37 7	14JAN2013 29JAN2013 19OCT2013 05NOV2013 12OCT2013 31OCT2013 31OCT2013 20NOV2013 11NOV2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 26AP2013 26APR2013 26APR2013 26APR2013 27OCT2013 15SP2013 26APR2013 26APR2013	26NOV2013 02DEC2013 04NOV2013 14DEC2013 14DEC2013 04DEC2013 06DEC2013 06DEC2013 10JAN2014 23SEP2013 23NOV2013 23NOV2013 23NOV2013 22NOV2013 22NOV2013 22NOV2013 22NOV2013 22NOV2013 22NOV2013 24SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013 14SEP2013	14JAN2013 29JAN2013 14DEC2013 03JAN2014 105OCT2013 24OCT2013 11NOV2013 09SEP2013 28OCT2013 12OCT2013 12OCT2013 16AUG2013 16AUG2013 18FEB2013 18FEB2013 26APR2013 26APR2013 05JUN2012 16APR2013 26APR2013 26APR2013 16APR2013 26APR2013 05JUN2014 19AUG2013	12DEC2013 02JAN2014 18FEB2014 23OCT2013 27NOV2013 27NOV2013 02DEC2013 03OCT2013 30NOV2013 30NOV2013 15OCT2013 14SEP2013 14SEP2013 14SEP2013 15SEP2013 11DEC2013 18AUG2013 18AUG2013 129JAN2014 28AUG2013 15AUG2013 12SEP2013	29JAN2013 05JUN2012 18FEB2013 18FEB2013 26APR2013 26APR2013 26APR2013		Formation of Formation of Exi Removal of Exi Watermain a Backfill and Construct manh Complete be Clearance Construct revove
VM200480B Clearance of N1 Chamber 2 100CT2013 110CT2013 23AUG2013 24AUG2013	WM101300 WM101350 WM101650 WM101655 WM101655 WM101675 WM101675 WM101675 WM101700 WM101710 WM101710 WM101750 WM101740 WM101750 WM101740 WM102100 WM1	Boundary Wall: Footing Boundary Wall: Wall Stem Formation of Access M002 0+00 to 0+80 Construction of Access M010 Construction of Access M010 Formation of Access M010 Formation of Access M006 Formation of Access M005 Formation of Access M005 Formation of Access M005 Formation of Access M005 Formation of Access M008 Construction of Access M008 Construction of Access M008 Construction of Access M003 (PTWN) Formation of Access M003 (PTWN) Removal of Existing Weighbridge Construction of Weighbridge Construct December Of Weighbridge Laying LV cable duct Laying ELV cable duct Laying ELV cable duct Sitewide Watermain Watermain at EB1 Backfill and Remove Sheet Piling East Construct manhole N2 Complete benching and platform in N2 Backfill and remove sheet pile at N2 Clearance at N2 Construct Base and Chamber Wall of N1 revove hoarding and cleance inside N1 Benching for overflow pipe inside N1 Apply Poly-shield / touchup	90 90 14 35 15 30 15 50 20 12 6 40 95 360 100 116 84 20 24 40 14 24 10 37 7 5 6	14JAN2013 29JAN2013 19OCT2013 05NOV2013 12OCT2013 31OCT2013 20NOV2013 11NOV2013 30AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 28AUG2013 26APR2013 26APR2013 26APR2013 16APR2013 26APR2013 27OCT2013 15SEP2013 26APR2013 26APR2013 26APR2013 27OCT2013 15SEP2013 26APR2013	26NOV2013 02DEC2013 04NOV2013 14DEC2013 04DEC2013 04DEC2013 06DEC2013 10JAN2014 23SEP2013 31DEC2013 23NOV2013 23NOV2013 19DEC2013 20NOV2013 22OCT2013 22OCT2013 25SEP2013 14SEP2013	14JAN2013 29JAN2013 14DEC2013 03JAN2014 105OCT2013 24OCT2013 11NOV2013 09SEP2013 12OCT2013 12OCT2013 12OCT2013 12OCT2013 12OCT2013 16AUG2013 28AUG2013 28AUG2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 26APR2013 05JUN2012 16APR2013 26APR2013 26APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013 16APR2013	12DEC2013 102JAN2014 18FEB2014 23OCT2013 27NOV2013 27NOV2013 20DEC2013 30NOV2013 30NOV2013 15OCT2013 15OCT2013 19DEC2013 19DEC2013 20NOV2013 28SEP2013 15SEP2013 15SEP2013 14BAUG2013 29JAN2014 28AUG2013 29JAN2014 28AUG2013 15AUG2013 15AUG2013 22SEP2013	29JAN2013 05JUN2012 18FEB2013 18FEB2013 26APR2013 26APR2013 26APR2013		Formation Formation of Removal of Exi Watermain a Backfill and Construct manh Complete be Construct revove revove revove



Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	2013 AUG SEP OCT NOV
	Sealing of pipe connection openning	6	10OCT2013			22SEP2013			☐ Sealing of
	Divert Flow in N1	2	23NOV2013	25NOV2013	07OCT2013	08OCT2013			Back
	Backfill and Remove Sheet Piling N2 to N1 TTA for transit box	24	12OCT2013 22NOV2012	04NOV2013 30AUG2013	07OCT2013 22NOV2012	30OCT2013 30AUG2013	22NOV2012		TTA for transit box
	Expose existing DN2100 pipe line	5	31AUG2013	04SEP2013	31AUG2013	04SEP2013	1		Expose existing DN2
	Sheet piling for transit box	9	05SEP2013	13SEP2013	05SEP2013	13SEP2013			Sheet piling for tra
	Excavation and shoring for transit box	18	14SEP2013	01OCT2013	14SEP2013	01OCT2013			Excavation ar
	Construct transit box	28	02OCT2013	29OCT2013	02OCT2013	29OCT2013			Const
	Curing for transit box	8	30OCT2013	06NOV2013	30OCT2013	06NOV2013			Curi
	Remove scaffold for transit box Temporary wall at DN2100 from CEPT	7	07NOV2013 14NOV2013	13NOV2013 20NOV2013	07NOV2013 14NOV2013	13NOV2013 20NOV2013			□ R
	Remove extg pipe inside transit box	7	21NOV2013	27NOV2013	21NOV2013	27NOV2013			+
	Backfill and Reinstatement	24	28NOV2013	21DEC2013	28NOV2013	21DEC2013			┤
	Decommissioning of PTW	0	28AUG2013		07DEC2013				Decommissioning of F
CWM202360B	Abandon extg DN2100 in transit box	14	28AUG2013	10SEP2013	07DEC2013	20DEC2013			Abandon extg DN2
	Temporary coffer dam in OPS	15	28AUG2013	11SEP2013	28AUG2013	11SEP2013			Temporary coffer d
	Backfill and Remove sheet pile	24	12SEP2013	05OCT2013	12SEP2013	05OCT2013			Backfill and
	Break Opening at OPS	35	06OCT2013	09NOV2013	06OCT2013	09NOV2013			Bre
	Handover Connection Manhole to OPS for E&M	0	040 OT0040	09NOV2013	40 14 1 100 4 4	09NOV2013			_
	Remove Temp Coffer Dam at PS Access M003: Foul Drain bet F3 to F2 / DOU B	18	01OCT2013 06JUN2013	18OCT2013 28AUG2013	12JAN2014 06JUN2013	29JAN2014 28AUG2013	06 II IN2013		Remove Access M003: Foul Dra
	Access M003: Foul Drain bet F2 to F2B	24	10JUN2013	18SEP2013	10JUN2013	17SEP2013	10JUN2013		Access M003: Four Dr.
	Access M004: Foul Drain from Admin to F11	12	01APR2013	02SEP2013	01APR2013	02SEP2013	01APR2013		Access M004: Foul D
	Access M004: Foul Drain from Admin to Extg A10	12	03SEP2013	14SEP2013	03SEP2013	14SEP2013	1		Access M004: Fo
	Access M004: Foul Drain bet Extg A10 to F10	12	15SEP2013	26SEP2013	15SEP2013	26SEP2013			Access M004
	Access M004: Foul Drain bet F10 to F9	12	22JUN2013	02SEP2013	22JUN2013	02SEP2013	22JUN2013		Access M004: Foul I
	Access M005: Foul Drain bet F5C to F5D / DOU A	21	19JUN2013	29AUG2013	19JUN2013	29AUG2013	19JUN2013		Access M005: Foul D
	Access M002: Foul Drain bet F2B to F1/ Skip	24	19SEP2013	12OCT2013	18SEP2013	11OCT2013			Access M
	Access M002: Foul Drain bet F2B to F15 / Skip	24	04OCT2013	27OCT2013	03OCT2013	26OCT2013			Acce
	Access M002: Foul Drain bet SDB/F2B to F2A / SDB	18	28OCT2013	14NOV2013	27OCT2013	13NOV2013	16MAY2013		1 1 1 / / /
	Access M002: Foul Drain bet F14 to F13	24	16MAY2013 28AUG2013	03SEP2013	16MAY2013 30AUG2013	13DEC2013	16WAY2013		Access M002: Foul Access M002: F
	Access M002: Foul Drain bet F13 to F12 Access M002: Foul Drain bet F12 to OPS	20	17SEP2013	16SEP2013 04OCT2013	19SEP2013	18SEP2013 06OCT2013			Access Mod2: F
	Access M003: Storm Drain bet S3 to S2	24	28AUG2013	20SEP2013	11SEP2013	04OCT2013	1		Access M003:
	Access M003: Storm Drain bet S2 to S1	24	11SEP2013	04OCT2013	25SEP2013	18OCT2013			Access M00
CWM213920B	Access M003: Storm Drain bet S11C to S11B	24	25SEP2013	18OCT2013	09OCT2013	01NOV2013			Access
CWM213930B	Access M003: Storm Drain bet S11B to CP11A	24	07OCT2013	30OCT2013	21OCT2013	13NOV2013			Acce
CWM214010B	Access M003: Storm Drain bet S14 to S15	35	19NOV2013	23DEC2013	15NOV2013	19DEC2013]
	Storm Drain bet CP11A to S11	18	15NOV2013	02DEC2013	14NOV2013	01DEC2013]
	Storm Drain bet S11 to S12A	18	30NOV2013		29NOV2013	16DEC2013			<u>i.</u> ii
	Access M002: Storm Drain bet S17 to S16	25	28AUG2013	21SEP2013	23OCT2013	16NOV2013			Access M002:
	Access M002: Storm Drain bet S16 / CP16A to S16A	25	09SEP2013	03OCT2013	04NOV2013	28NOV2013			Access M0
	Access M002: Storm Drain bet S16A to S16B Access M002: Storm Drain bet S17 to S18	28	24SEP2013 03SEP2013	21OCT2013 22SEP2013	19NOV2013 31OCT2013	16DEC2013 19NOV2013			Access M002:
	Access M002: Storm Drain bet S18 to S19	24	23SEP2013	16OCT2013	20NOV2013	13DEC2013	1		Access M002.
	Access M002: Storm Drain bet S19 to CP19	24	05OCT2013	28OCT2013	02DEC2013	25DEC2013			Access
	Access M002: Storm Drain bet CP19 to CP19A	24	20OCT2013		08JAN2014	06FEB2014			
CWM215110B	Stockpile Area: Storm Drain bet S19 /CP20 to S20	51	01DEC2013	20JAN2014	23DEC2013	17FEB2014			1 1 1
CWM215145B	Stockpile Area: Storm Drain bet S25 to S22	30	01DEC2013	30DEC2013	26DEC2013	24JAN2014			1 1 1
CWM215170B	Access M002: Storm Drain bet S24 to S25	30	28AUG2013	26SEP2013	14NOV2013	13DEC2013			Access M002
	Access M007: Storm Drain bet CP11 / CP13A to S12	18		30SEP2013					Access M00
	Access M007: Storm Drain bet S12 to S13	18		30SEP2013		04MAR2014			Access M00
	Access M007: Storm Drain bet S13 to S23A	24		24OCT2013		28MAR2014			Acce
	Access M010: Storm Drain bet S25A to S25	25		21SEP2013		04OCT2013			Access M010
	Access M006: Storm Drain bet CP21 to extg S8 Access M006: Storm Drain bet S8 to S7	18		16NOV2013 23NOV2013		14NOV2013	<u> </u>		- 1 - 1 - 1
	Access M006: Storm Drain bet S7 to S28	24		29NOV2013		20NOV2013			┼╎╴┤╴╌ ╴
	Access M006: Storm Drain bet S28 to S17	30	16OCT2013			05NOV2013			┪╎ ╎ 📥
	Access M006: Storm Drain bet EB4 to CP12A	16	28AUG2013		10SEP2013	25SEP2013			Access M006: S
	Access M006: Storm Drain bet CP12A to CP12	16	13SEP2013	28SEP2013	26SEP2013	11OCT2013	i		Access M00
	Access M006: Storm Drain bet CP12A to Extg S16	16	29SEP2013	14OCT2013		27OCT2013			Access
	Access M003: Storm Drain bet S27 to S2 upstream	16	28AUG2013	12SEP2013	17AUG2013				Access M003: S
	Access M003:Storm Drain bet S27 to S2 downstream	16	20NOV2013		12DEC2013	27DEC2013]
	Access M003: Storm Drain bet S26 to S27	21		01OCT2013	31AUG2013		<u> </u>		Access M0
	Access M003: Storm Drain (Gullies to S26)	21	25SEP2013		21SEP2013	110CT2013			Access
	Access M003: Storm Drain (Gullies to S27)	21	02OCT2013			11OCT2013			Acces
	Access M004: Storm Drain bet Extg MH to R2 Access M004: Storm Drain bet R2 to R1	23	01SEP2013 18SEP2013	23SEP2013 11OCT2013	23SEP2013	15OCT2013 02NOV2013			Access M004
	Access M004: Storm Drain bet R2 to R1 Access M004: Storm Drain bet R1 to S3	28	07OCT2013	03NOV2013		25NOV2013	 		Access N
	Access M004: Storm Drain bet S3 to S2B	24	300 CT 2013		21NOV2013				- · · · ·
	Access M004: Storm Drain bet S2B to S2	24		13DEC2013		04JAN2014			1
	Access M003: Storm Drain bet S2 to S2A	16	28AUG2013		21DEC2013	05JAN2014			Access M003: S
	Access M003: Storm Drain bet S2A to CP2A / CP2B	25		29NOV2013		05FEB2014			1 i i i i
014/140404000	Access M003: Storm Drain bet S2A to CP2E / CP2D	25	17NOV2013		18JAN2014	17FEB2014] <u> </u>
		125		01JAN2014	07DEC2013	16APR2014			
CWM217000B	DT. DO 4	12		08SEP2013	28JAN2014	14FEB2014			PT: B9-1 - ch0 to PT: B9-2 - ch0 to
CWM217000B CWM221930B	PT: B9-1 - ch0 to 13.5 Backfill				28JAN2014	14FEB2014			LT. DO 2 ob0 to
CWM217000B CWM221930B CWM221970B	PT: B9-2 - ch0 to 4.1 Backfill	12	28AUG2013				00 11 11 00 10		
CWM217000B CWM221930B CWM221970B CWM224800B	PT: B9-2 - ch0 to 4.1 Backfill LV Cable Ducts North side of CEPT to DOU B	16	20JUL2013 A	07SEP2013	20JUL2013 A	20AUG2013			LV Cable Ducts N
CWM217000B CWM221930B CWM221970B CWM224800B CWM225000B	PT: B9-2 - ch0 to 4.1 Backfill		20JUL2013 A 20MAY2013		20JUL2013 A	20AUG2013 29AUG2013			

 Start date
 14JUL2010

 Finish date
 08JUN2014

 Data date
 28AUG2013

 Run date
 26SEP2013

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 Project name
 PR37

 ? Primavera Systems, Inc.

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Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish 2013 AUG SEP OCT
	LV Cable Ducts bet OPS to DOUB	30	24APR2013	01SEP2013	24APR2013	29JUL2013	24APR2013	LV Cable Ducts b
	LV Cable Ducts bet Chem to EB3	20	27MAY2013	04SEP2013	27MAY2013	04SEP2013	27MAY2013	LV Cable Ducts
	LV Cable Ducts bet SDB to EB3 ELV Cable Ducts bet EB1 to PTW	20	16MAY2013 21MAY2013	02SEP2013 09SEP2013	16MAY2013 21MAY2013	02SEP2013 08NOV2013	16MAY2013 21MAY2013	LV Cable Ducts I
	ELV Cable Ducts bet EB1 to Admin Building	18	25MAY2013	05SEP2013		05SEP2013	25MAY2013	ELV Cable Duct
	ELV Cable Ducts East side of CEPT	24	16MAY2013	29AUG2013		08SEP2013	16MAY2013	ELV Cable Ducts
	ELV Cable Ducts South side of CEPT	16	28AUG2013	12SEP2013		12NOV2013		FLV Cable Du
	ELV Cable Ducts West side of CEPT to EB3	16			06JUL2013 A		06JUL2013	ELV Cable Duc
	ELV Cable Ducts Chem to East of CEPT	16	06JUL2013 A	04SEP2013	06JUL2013 A		06JUL2013	FLV Cable Duct
	ELV Cable Ducts Admin to DOU B	16	14JUL2013 A		14JUL2013 A		14JUL2013	ELV Cable Duct
	ELV Cable Ducts around stockpile area	24	21SEP2013	14OCT2013		20JAN2014		ELV (
	ELV Cable Ducts East of PTW	18			14JUL2013 A		14JUL2013	ELV Cable Duc
	ELV Cable Ducts South East side of DOU A ELV Cable Ducts PTW to DOU A	18	14JUL2013 A 10MAY2013	07SEP2013 29AUG2013	14JUL2013 A 10MAY2013	08SEP2013 08SEP2013	14JUL2013 10MAY2013	ELV Cable Ducts
	ELV Cable Ducts PTW to DOU A ELV Cable Ducts South side of DOU A	18	14JUL2013 A	14SEP2013	14JUL2013 A		14JUL2013	ELV Cable Ducts
	ELV Sitewide Cable Ducts for PCCW	95	01MAR2013	05OCT2013	01MAR2013	15SEP2013	01MAR2013	ELV Site
	ELV Cable Ducts East of Extg PTW	30		26SEP2013		01OCT2013	U IIVIAI (2013	ELV Cable
	Watermain bet cabinet near EB1to Admin Building	27	14AUG2013	18SEP2013		20AUG2013	14AUG2013	Watermain b
	Watermain from N3 /N2 to DOU A	20	23MAY2013	31AUG2013	23MAY2013	22SEP2013	23MAY2013	Watermain from I
	Watermain on top of N3 to N2	20	28AUG2013	16SEP2013	28AUG2013	16SEP2013		Watermain o
	Watermain from N3 /N2 to PTW	18	23MAY2013	10SEP2013	23MAY2013	10SEP2013	23MAY2013	Watermain from
	Watermain from Chemical Building to SDB	16	28AUG2013	12SEP2013	05AUG2013	20AUG2013		Watermain fro
	Watermain from PTW to South of CEPT/DOU B	21	30SEP2013	200 CT 2013	30SEP2013	200 CT 2013		Wat
	Watermain from SDB to DOUB/ UV Watermain from DOUB to RWPS	18	06SEP2013 24SEP2013	23SEP2013 11OCT2013	30AUG2013 17SEP2013	16SEP2013 04OCT2013		Watermain Waterr
	Water meter cabinet near EB1	14	24SEP2013 22AUG2013	18SEP2013	17SEP2013 22AUG2013	20AUG2013	22AUG2013	Water meter
CWM228000B CWM228570	BW: ChA0+303 to ChA0+315 Type A4	24	11MAY2013	18SEP2013 01SEP2013	11MAY2013	01SEP2013	11MAY2013	BW: ChA0+303 to
CWM228580	BW: ChA0+233 to ChA0+246 (Weighbridge)	36	25FEB2013	05SEP2013	25FEB2013	05SEP2013	25FEB2013	BW: ChA0+233
CWM228670	BW: ChA0+83.5 to ChA0+104	30	07MAY2013	02SEP2013	07MAY2013	02SEP2013	07MAY2013	BW: ChA0+83.5
	BW: ChA0+38 to ChA0+83.5	60	13APR2013	08SEP2013		08SEP2013	13APR2013	BW: ChA0+38
CWM228700	BW: ChA0+00 to ChA0+38	45	26APR2013	05SEP2013	26APR2013	29JAN2014	26APR2013	BW: ChA0+00 t
CWM228830	BW: ChB0+35 to ChB0+44.8 Type A4	24		01SEP2013		26JUL2013	10MAY2013	BW: ChB0+35 to
CWM228840	BW: ChB0+00 to ChB0+30 Type B	20	02SEP2013	21SEP2013	27JUL2013	15AUG2013		BW: ChB0+
CWM229420	BW: ChD0+00 to ChD0+90 Type B	30	28AUG2013	26SEP2013	22AUG2013	20SEP2013		BW: ChD0
CWM229430 CWM229440	BW: ChD0+90 to ChD0+150 Type B BW: ChD0+150 to ChD0+200 Type B	20	27SEP2013 17OCT2013	16OCT2013	21SEP2013 11OCT2013	10OCT2013 04NOV2013		BW: 0
	BW: ChD0+150 to ChD0+200 Type B BW: ChD0+200 to ChD0+407.89 Type B	60	170C12013		110C12013 05NOV2013			
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Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	2013
EMW206200	CEPT: DO Duct Install PT CEPT/SDB/DOU B	20	10MAY2013	16OCT2013	10MAY2013	23SEP2013	10MAY2013		AUG SEP OCT NOV EC
EMW207100	CEPT: SCADA System Installation	70	27MAR2013	09OCT2013	27MAR2013	09OCT2013	27MAR2013		CEPT: SCADA S
EMW208450	CEPT: MVAC Installation G/F	30	26MAY2013	28AUG2013	26MAY2013	28AUG2013	26MAY2013		CEPT: MVAC Installation G
	CEPT: FS CS H/O Duct from Admin Bldg CEPT: FS Laying Signal Cable from Admin Bldg	30	09SEP2013	03OCT2013	09SEP2013 28AUG2013	LOCOCTOOAS			CEPT: FS CS H/O Duc
EMW302175	UV: DO cover to Site	0	28AUG2013	030012013	28AUG2013	030012013			UV: DO cover to Site
EMW303350	UV: DO Cover Installation	30		07SEP2013		19AUG2013	06JUL2013		UV: DO Cover Installation
EMW307100	UV: SCADA system Installation	60	24JUN2013	07SEP2013	24JUN2013	19AUG2013	24JUN2013		UV: SCADA system Insta
EMW308100	UV: BS system Installation	60	25MAY2013	29AUG2013	25MAY2013	29AUG2013			UV: BS system Installation
EMW309120 EMW309150	UV: DO Duct support UV: DO Duct Installation	20 30	11JUL2013 A 03AUG2013	07SEP2013 13SEP2013	11JUL2013 A 03AUG2013		11JUL2013 03AUG2013		UV: DO Duct support
EMW309170	UV: DO Cover Installation	15	14SEP2013	03OCT2013	14SEP2013	03OCT2013	03A0G2013		UV: DO Cover In
EMW312000	UV: Duct install in PT bet UV / DOU B and Skip	30	05JUN2013	26SEP2013	05JUN2013	19AUG2013			UV: Duct install in P
EMW322450	RWPS: Pump & Pipework Installation	55	27JUN2013	19SEP2013	27JUN2013	21SEP2013	27JUN2013		RWPS: Pump & Piper
	RWPS: Cable Tray & support above G/F RWPS: CS H/O Ducts OFPS,LVSb-B to EB3-RWMCC	33	14SEP2013 30AUG2013	25OCT2013	29AUG2013 30AUG2013	08OCT2013			RWPS: Cab
	RWPS: CS H/O Ducts EB3-RWMCC to RWPS Equipment	0	30AUG2013		30AUG2013				RWPS: CS H/O Ducts EB
EMW322574	RWPS: RWPS Area Cable Tray & Support	40	29JUL2013 A	26SEP2013	29JUL2013 A	26SEP2013	29JUL2013		RWPS: RWPS Are
EMW322600	RWPS: BS Installation	30	08AUG2013		08AUG2013	19SEP2013	08AUG2013		RWPS: BS Installation
EMW322641	RWPS: MVAC Installation H/L	30	29JUL2013 A		29JUL2013 A		29JUL2013		RWPS: MVAC Install
EMW322645 EMW322651	RWPS: MVAC Installation LL RWPS: FS Installation H/L	30	21SEP2013 29JUL2013 A	28OCT2013	29JUL2013 A	16NOV2013	29JUL2013		RWPS: MV
EMW322655	RWPS: FS Installation LL	30		03OCT2013		11OCT2013	29JUL2013		RWPS: FS Install
EMW322655A	RWPS: FS CS H/O Duct from Admin Bldg	0	09SEP2013		05OCT2013				RWPS: FS CS H/O Du
	RWPS: FS Laying Signal Cable from Admin Bldg	30	09SEP2013	16OCT2013	05OCT2013				RWPS: FS Lay
EMW322661	RWPS: P&D Installation H/L	30	21SEP2013	28OCT2013	05OCT2013	09NOV2013			RWPS: P&I
EMW322665 EMW322671	RWPS: P&D Installation L/L RWPS: EL Installation H/L	30 35	21SEP2013 28AUG2013	28OCT2013 09OCT2013	05OCT2013 17AUG2013	09NOV2013 27SEP2013			RWPS: P&I
EMW322675	RWPS: EL Installation L/L	35		20NOV2013	28SEP2013	09NOV2013	l		RWP
EMW322700	RWPS: Control system Installation (ref)	60	16JUL2013 A		16JUL2013 A		16JUL2013		RWPS: Contro
EMW322785	RWPS: MCC Control Cable Laying and Fixing	60	05AUG2013	03OCT2013	05AUG2013	08OCT2013	05AUG2013		RWPS: MCC Con
EMW322787	RWPS: MCC Control Cable Termination	30 60	28AUG2013	03OCT2013	02SEP2013	08OCT2013	30AUG2013		RWPS: MCC Con
EMW323520 EMW323530	RWPS: RWMCC EB3 Power Cable Laying RWPS: ALL Cable Test and Termination	30		08NOV2013 08NOV2013	30AUG2013 02SEP2013	08OCT2013	30A0G2013		RWPS:
EMW323700	RWPS: RWMCC at EB3 Energization	3	09NOV2013	12NOV2013	09OCT2013	11OCT2013			I I RWPS:
EMW323800	RWPS: Duct install in PT between RWPS/OPS	30	28AUG2013	03OCT2013	05OCT2013	09NOV2013			RWPS: Duct insta
EMW506550A	ű	0	05SEP2013		05SEP2013				◆ Chemical: FS CS H/O D
EMW506550E EMW506910	Chemical: FS Laying Signal Cable from Admin Bldg Chemical: PV structure Installation	30	05SEP2013 28AUG2013	11OCT2013 19SEP2013	05SEP2013 21AUG2013	11OCT2013 12SEP2013			Chemical: FS La
EMW506920	Chemical: PV structure installation	30	21SEP2013	28OCT2013	13SEP2013	21OCT2013			Chemical: F
EMW506930	Chemical: PV Inverter Installation	20		02NOV2013	03OCT2013	26OCT2013			Chemical:
EMW506940	Chemical: PV panel cabling Installation	20	17OCT2013	08NOV2013	09OCT2013	01NOV2013			Chemica
EMW513000	Chemical: DO Duct install in PT CEPT/SDB/DOU B	30	10MAY2013	26SEP2013	10MAY2013	26SEP2013	10MAY2013		Chemical: DO Duct
EMW603540 EMW605140	Sludge: Polymer Pipeline Installation Sludge: Control Cabling & termination R/L	20 15	03JUN2013 03AUG2013	03OCT2013 03OCT2013	03JUN2013 03AUG2013	03OCT2013	03JUN2013		Sludge: Polymer F Sludge: Control C
EMW605150	Sludge: Control Cabling & termination SSH	15		03OCT2013		05SEP2013	20AUG2013		Sludge: Control Co
EMW607100	Sludge: SCADA system Installation	100	05JUN2013	03OCT2013	05JUN2013	25SEP2013	05JUN2013		Sludge: SCADA s
EMW608440	Sludge: MVAC Installation R/L	10	21JUN2013	28AUG2013	21JUN2013	28AUG2013	21JUN2013		Sludge: MVAC Installation
EMW608450	Sludge: MVAC Installation SSH Sludge: FS Laying Signal Cable from Admin Bldg	30		03OCT2013 25OCT2013	04JUL2013 A	10AUG2013 25OCT2013	04JUL2013		Sludge: MVAC In:
	Sludge: P&D Installation R/L			03OCT2013			19JUN2013		Sludge: P&D Insta
	Sludge: P&D Installation SSH	25		05OCT2013					Sludge: P&D. Inst
EMW608950	Sludge: DO Duct Installation G/L	25	29JUN2013	03OCT2013	29JUN2013	03OCT2013	29JUN2013		Sludge: DO Duct I
EMW608960	Sludge: DO Duct Installation B/L	25		03OCT2013	08JUL2013 A		08JUL2013		Sludge: DO Duct I
EMW609520 EMW609530	Sludge: SDMCC Cable Laying from EB2 Sludge: SDMCC Cable Test and Termination	30		21SEP2013 17SEP2013		21SEP2013 07AUG2013			Sludge: SDMCC Cab
EMW609700	Sludge: SDMCC Cable Test and Termination Sludge: SDMCC Energization	30		21SEP2013		10AUG2013	100002010		Sludge: SDMCC Cabit
EMW611720	Sludge SkipHS: EL Installation	25		26SEP2013			21AUG2013		Sludge SkipHS: EL
EMW611913	Sludge SkipHS: DO Duct Support	10	21AUG2013			26SEP2013	21AUG2013		Sludge SkipHS: DO
EMW611950	Sludge SkipHS: DO Duct Installation	15	29JUL2013 A		29JUL2013 A		29JUL2013		Sludge SkipHS: DO
EMW613000 EMW613500	Sludge: DO Duct install in PT CEPT/SDB/DOU B I Skip Storage Bldg.: E&M Installation works	30		26SEP2013 08JAN2014	29JUL2013 A	06SEP2013 28NOV2013	29JUL2013		Sludge: DO Duct ins
	DOU A: SCADA System Installation	50		090CT2013		110CT2013	15JUL2013		DOU A: SCADA
EMW718550A	DOU A: FS CS H/O Duct from Admin Bldg	0	09SEP2013		09SEP2013		<u> </u>		I♦ DOU A: FS CS H/O Du
	DOU A: FS Laying Signal Cable from Admin Bldg	30		16OCT2013	09SEP2013				I DOU A: FS La
EMW719530 EMW719700	DOU A: DOUA MCC ALL Cables Test and Termination DOU A: DOUA MCC Energization	30		28AUG2013 28AUG2013	29JUL2013 A	25SEP2013 31AUG2013	29JUL2013		DOU A: DOUA MCC ALL C
	DOU B: Recirculation pipeworks Installation	20		12SEP2013		20AUG2013			DOU B: Recirculation p
	DOU B: Nutrient Pump Installation	20		17SEP2013	29JUL2013 A		29JUL2013		DOU B: Nutrient Pump
EMW723240	DOU B: Nutrient Pipework Installation	10	21AUG2013	26SEP2013	21AUG2013	26SEP2013	21AUG2013		DOU B: Nutrient Pip
EMW723312	DOU B: AC Filter Tower 2 Installation	20	29JUL2013 A		29JUL2013 A		29JUL2013		DOU B: AC Filter Tower
EMW723320 EMW723330	DOU B: Water Pipe Installation DOU B: Sensor & pipeworks Installation	30		21SEP2013 09OCT2013	23JUL2013 A	21SEP2013 09OCT2013	23JUL2013 21AUG2013		DOU B: Water Pipe II
EMW723500	DOU B: Odour Duct connection	70		28OCT2013		09NOV2013			DOU B: Ode
	DOU B: Power & Cable Installation (MCC to Eqt)	70		09OCT2013	27MAY2013		27MAY2013		DOU B: Power 8
EMW725100	DOU B: Control & Cable Installation (MCC to Eqt)	60	27MAY2013	09OCT2013	27MAY2013	25SEP2013	27MAY2013		DOU B: Power &
	DOU B: SCADA System Installation	50		12OCT2013		02OCT2013			DOU B: SCADA
EMW728100	DOU B: BS System Installation	50	22MAY2013	19SEP2013	22MAY2013	19SEP2013	22MAY2013		DOU B: BS System In
EMW728410 EMW728450	DOU B: MVAC Installation Plant DOU B: MVAC Installation MCC	30	09JUL2013 A 24JUL2013 A		09JUL2013 A 24JUL2013 A	12OCT2013 28SEP2013	09JUL2013 24JUL2013		DOU B: MVAC Ins
EMW728510		30	07AUG2013		07AUG2013		07AUG2013		DOU B: FS Installation
Chart det -		•		•	•	•			
Start date 14.	Page 6A of 8A								Early bar

 Start date
 14JUL2010

 Finish date
 08JUN2014

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Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	2013 SEP OCT
	DOU B: FS Installation MCC	30	07AUG2013	19SEP2013	07AUG2013	28SEP2013	07AUG2013		DOU B: F
	DOU B: FS CS H/O Duct from Admin Bldg	0	09SEP2013	400 07-	27AUG2013				OOU B: FS
	DOU B: FS Laying Signal Cable from Admin Bldg	30	09SEP2013	16OCT2013	27AUG2013			<u> </u>	DO
	DOU B: P&D Installation Plant	20	07AUG2013	30SEP2013	07AUG2013	30SEP2013	07AUG2013	<u> </u>	DOU B
	DOU B: P&D Installation MCC	15	23AUG2013			28SEP2013	23AUG2013		DOU B
	DOU B: EL Installation Plant	30	09SEP2013	16OCT2013	09SEP2013	16OCT2013	02040.72042	<u> </u>	DO
	DOU B: DOUB MCC Cable Containment Installation	24	02MAY2013	09OCT2013	02MAY2013	25SEP2013	02MAY2013		DOU
	DOU B: CS H/O Duct fm. Outfall/EB4 to MCC (Main)	0	09SEP2013	400 OT 0040	21AUG2013	LOCOL DODA'S		<u></u> i`	OOU B: CS
	DOU B: DOUB MCC Cable Laying from EB4	30	09SEP2013	16OCT2013	21AUG2013	25SEP2013		<u> </u>	DO
	DOU B: DOUB MCC Cable Test and Termination	15	27SEP2013	16OCT2013	07SEP2013	25SEP2013		<u> </u>	□ DO
	DOU B: DOUB MCC Energization	3	17OCT2013	19OCT2013	26SEP2013	28SEP2013	1401411/0040	<u> </u>	DOUR
	DOU B: DO Duct install in PT CEPT/SDB/DOU B J	30	10MAY2013	30SEP2013		02OCT2013	10MAY2013		DOU B
	All Area: SCADA SI Assembly PLC LCPs*	60	28AUG2013	28AUG2013		28AUG2013	15115115515		II Area: SCADA
	All Area:: Delivery of ELV Eq. On site	30	15NOV2012	28AUG2013	15NOV2012	28AUG2013	15NOV2012		Il Area:: Deliver
	All Area: Delivery of ELV Eq. On site (non crit)	20	28MAY2013	29AUG2013	28MAY2013	07SEP2013	28MAY2013	<i></i>	All Area: Delive
	All Area: SCADA Install PLC LCP OFPS	65	23OCT2013	09JAN2014	19OCT2013	06JAN2014	LOCADDOCAC	<u> </u>	
	Admin Bldg : SCADA Equipment Installation	75	29APR2013	21SEP2013	29APR2013	07SEP2013	29APR2013		Admin Blo
MW802304	Admin Bldg : SCADA Installation - Workstation	25	01APR2013	13SEP2013	01APR2013	13SEP2013	01APR2013		Admin Bldg
MW802306	Admin Bldg: SCADA Installation - Wiring & Connc	24	27JUN2013	13SEP2013	27JUN2013	13SEP2013	27JUN2013		Admin Bldg
MW802350	Admin Bldg: ELV Equipment Installation	90	15APR2013	25SEP2013	15APR2013	25SEP2013	15APR2013		Admin B
MW803610	Admin Bldg Service: P&D Installation G/F N	33	01APR2013	03OCT2013	01APR2013	03OCT2013	01APR2013		Admin Admin
MW803620	Admin Bldg Service: P&D Installation G/F S	33	20APR2013	03OCT2013	20APR2013	03OCT2013	20APR2013		Admin
MW803650	Admin Bldg Service: P&D Installation R/F	33	19APR2013	19SEP2013	19APR2013	19SEP2013	19APR2013		Admin Bld Admin Bldg S
MW803750	Admin Bldg Service: EL Installation R/F	40	28MAY2013		28MAY2013	29AUG2013	28MAY2013		Admin Bldg S
MW811300	SHB Bldg: E&M Equipment Installation	30	12OCT2013	16NOV2013	09SEP2013	16OCT2013			
	SHB Bldg: Genset Installation	30	12OCT2013	16NOV2013	09SEP2013	16OCT2013		<u> </u>	
MW821110	Flowmeter: E&M Installation (Ref.)	48	28AUG2013	25OCT2013	15AUG2013	110CT2013		<u> </u>	
MW821130	Flowmeter: Flowmeter Installation (Ref.)	30	28AUG2013	03OCT2013	01NOV2013	05DEC2013		<u> </u>	Flown
MW821180	Flowmeter: Install Stoplog Extg Pipeline 1 OPS	10	09SEP2013	19SEP2013	22AUG2013	02SEP2013		<u> </u>	Flowmete
MW821190	Flowmeter: Install Stoplog Extg Pipeline 2 OPS	10	21SEP2013	03OCT2013	16OCT2013	26OCT2013		<u> </u>	Flown
MW821200	Flowmeter: Install Meter 1 & Pipeline in Chamber	18	22OCT2013	11NOV2013	05OCT2013	26OCT2013	<u> </u>	<u> </u>	
	Flowmeter: Install Meter 2 & Pipeline in Chamber	18	28NOV2013	18DEC2013		03DEC2013			
	Flowmeter: E&M Aux. Installation (Ref)	48	28AUG2013	25OCT2013	15AUG2013	11OCT2013			
MW941730	Elect Bldg 1: Removal of existing LVSBA1	20	28AUG2013	19SEP2013	23NOV2013	16DEC2013			Elect Bldg
MW941740	Elect Bldg 1: new LVSBA1 reinstate and testing	20	21SEP2013	16OCT2013	17DEC2013	11JAN2014		i	Ele
MW943730	Elect Bldg 3: Energization of DOUB SWRS	7	26JUL2013 A		26JUL2013 A		26JUL2013		Elect Bldg 3: Er
MW944200	OFPS: Delivery of Mat'l & Equipment	30	28FEB2013	28AUG2013	28FEB2013	28AUG2013	28FEB2013	_ _	FPS: Delivery
MW944400	OFPS: Install B1B2 panel	40	28AUG2013	16OCT2013	24AUG2013	11OCT2013		-	OF
MW944510	OFPS: Cable Containment Installation	40	09SEP2013	28OCT2013	05SEP2013	24OCT2013		<u> </u>	
MW944520	OFPS: Cable Laying	30	02SEP2013	08OCT2013	30JUL2013	02SEP2013		[[]	OFP
MW944530	OFPS: Cable Test and Termination	40	07SEP2013	26OCT2013	05AUG2013	19SEP2013		<u> </u>	
MW944600	OFPS: SCADA System Installation	60	28AUG2013	08NOV2013	28AUG2013	08NOV2013		<u>.</u>	
MW944610	OFPS: BS System Installation	50	20AUG2013	16OCT2013	20AUG2013	19SEP2013	20AUG2013	<u> </u>	OF
MW944620	OFPS: Modification of LV Switchboard B	30	28AUG2013	03OCT2013		19SEP2013		<u> </u>	OFPS:
MW944700	OFPS: B1B2 Energization	3	28OCT2013			24SEP2013		<u> </u>	
MW944710	OFPS: RWMCC2 Panel Energization	7	28OCT2013		21SEP2013	28SEP2013		<u> </u>	
MW944720	OFPS: DOUB MCC 2 Panel Energization	7	280C12013	04NOV2013	21SEP2013	28SEP2013		<u></u> [i	
	OFPS: divert control from B1B2 to new SCADA sys Outdoor: Lighting East of PTW Area	10	1200 CT2042	04NOV2013	01NOV2013	28SEP2013		li	
	Outdoor: Lighting East of FTW Area				13NOV2013			<u> </u>	- 1
	Outdoor: Lighting South of CEPT Area Outdoor: Lighting near existing OFPS	10			25NOV2013			 	1
	Outdoor: Lighting West of Skip Hse Area								$ \dashv$ $ -$
g and Commis	, i	10	02DEC2013	IZDEC2013	06DEC2013	17DEC2013	<u> </u>		-
	d Commissioning								
uilding and Str	ructures								i
	PTW Phase 3: Wet Testing of PTW CS FS & GC	30	23AUG2013	21SEP2013	23AUG2013	03SEP2013	23AUG2013		PTW Pha
MT103412	PTW Phase 3: Wet Testing Inlet Pump	30	09AUG2013	06SEP2013	09AUG2013	08AUG2013	09AUG2013		PTW Phase 3
MT103415	PTW Phase 3: Remove Recirculation System	1	07SEP2013	07SEP2013	09AUG2013	09AUG2013			PTW Phase 3
	PTW Phase 3: Manual Testing of PTW-system	30	08SEP2013	07OCT2013	10AUG2013				PTW
MT 103430	PTW Phase 3: Automatic Testing of Sub-system	30	08OCT2013	06NOV2013	09SEP2013	08OCT2013			
	PTW Phase 4: Introduce Process Fluid (Sewage)	1		26NOV2013		09OCT2013		 	
	PTW Phase 4: Auto and Process Commissioning	30	27NOV2013		17OCT2013			<u> </u>	1
	d Commissioning								-
ilding and Str									
	CEPT Tank: Phase 2 - Dry Test of Individual Eq't	30	22JUL2013 A	24SEP2013	22JUL2013 A	12AUG2013	22JUL2013		CEPT T
	CEPT Tank Phase 3: Wet Testing of Individual Eqt	30	15SEP2013		03AUG2013				CEI
	CEPT Tank Phase 3: Manual Test Sub-system	30	25SEP2013	24OCT2013					(
	CEPT Tank Phase 3: Automatic Test Sub-system	30	25OCT2013			11OCT2013		 	
	CEPT Tank Phase 4: Introduce Process Sewage	7	27NOV2013		12OCT2013		 		· -
	CEPT: Phase 4 Auto Testing Process Commissioning	35		07JAN2014	300 CT 2013		1	, t	;
Disinfection F									i
ilding and Str	ructures								1
	UV: Phase 1 - Installation Inspection	50	22JUL2013 A		22JUL2013 A		22JUL2013	 _	IV: Phase 1 - I
MT302100	UV: Phase 2 - Dry Test of Individual Eq't	30		27SEP2013		19AUG2013		<u> </u>	UV: Pha
	UV: Phase 3 - Wet Test of Individual Eq't	30	28SEP2013		20AUG2013	18SEP2013		<u> </u>	
MT303100	UV: Phase 3 -Manual Testing of Sub-system	30		11NOV2013		03OCT2013		I.	<u>-</u>
MT303100 MT303200	UV: Phase 3 - Auto Testing of Sub-system	30	28OCT2013	26NOV2013	19SEP2013	18OCT2013			
MT303100 MT303200 MT303300					19OCT2013	I	1 1	i '	1
MT303100 MT303200 MT303300 MT304100	UV: Phase 4 - Introduce Process Sewage	0	04DEC2013						1
MT303100 MT303200 MT303300 MT304100 MT304200	UV: Phase 4 - Introduce Process Sewage UV: Phase 4 Auto Testing Process Commissioning	30	04DEC2013 04DEC2013	02JAN2014	19OCT2013	17NOV2013			
MT303100 MT303200 MT303300 MT304100 MT304200	UV: Phase 4 - Introduce Process Sewage UV: Phase 4 Auto Testing Process Commissioning mping Station			02JAN2014		17NOV2013			

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PPSTW Programme R7A- Progress up to 28 Aug 13 - Three Months Rolling Programme

Progress bar
 Critical bar
 Summary bar
 Start milestone point
 Finish milestone point

Activity ID	Description	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	2013 AUG SEP OCT NOV
EMT321100	RWPS: Phase 1 - Installation Inspection	20	20SEP2013	09OCT2013	22SEP2013	11OCT2013			RWPS: Phase
EMT322100	RWPS: Phase 2 - Dry Test of Individual Eq't	30	13NOV2013	12DEC2013	12OCT2013	10NOV2013			
Chemical Building									! ! ! !
Building and Str	uctures								
	Chemical: Phase 3 - Wet Test of Individual Eq't	30		26SEP2013			28AUG2013		Chemical: Phase
	Chemical: Phase 3 -Manual Testing of Sub-system	30		08NOV2013		01NOV2013			Chem
	Chemical: Phase 3 - Auto Testing of Sub-system	30		08NOV2013		11OCT2013			Chem
	Chemical: Phase 4 - Introduce Chemical Dosing	1		26NOV2013	1	02NOV2013]
	Chemical: Phase 4 Auto TestProcess Commissioning	20	27NOV2013	16DEC2013	03NOV2013	22NOV2013			
	g and Skip Storage								1 1 1
Building and Str									
	Sludge: Phase 1 - Installation Inspection	30		28AUG2013					Sludge: Phase 1 - Insta
	Sludge: Phase 1 - Sludge System Insp.	30		28AUG2013					Sludge: Phase 1 - Sludge
	Sludge: Phase 1 - Polymer System Insp.	30		28AUG2013					Sludge: Phase 1 - Polyr
	Sludge: Phase 1 - Centrifuge Inspection	30		28AUG2013					Sludge: Phase 1 - Centi
	Sludge: Phase 1 - Convey. sys. Inspection	30		28AUG2013			28JUL2013		Sludge: Phase 1 - Conv
	Sludge: Phase 2 - Dry Test of Individual Eq't	30		02NOV2013					Sludge
EMT603100	Sludge: Phase 3 - Wet Test of Individual Eq't	30		17NOV2013		25SEP2013			Slu Slu
EMT603200	Sludge: Phase 3 -Manual Testing of Sub-system	30		27NOV2013		05OCT2013] -
EMT603300	Sludge: Phase 3 - Auto Testing of Sub-system	30	18NOV2013	17DEC2013	26SEP2013	25OCT2013			
Septic Waste Col									
Building and Str									
EMT152100	Septic Station: Phase 2 - Dry Test Indiv Eq't	30	20SEP2013	19OCT2013	08AUG2013	06SEP2013	l I		Septic Sta
	Septic Station: Phase 3 - Wet Test of Indiv Eq't	30	200 CT 2013	18NOV2013	07SEP2013	06OCT2013			Se
EMT153200	Septic Station: Phase 3 - Manual Test Sub-system	30	04NOV2013	03DEC2013	22SEP2013	21OCT2013	l I		
EMT153300	Septic Station: Phase 3 - Auto Test Sub-system	30	24NOV2013	23DEC2013	12OCT2013	10NOV2013			
DOU A									1 1 1
Building and Str	uctures								
EMT712100	DOU A: Phase 2 - Dry Test of Individual Eq't	30	29AUG2013	27SEP2013	02SEP2013	01OCT2013			DOU A: Phase 2
EMT713100	DOU A: Phase 3 - Wet Test of Individual Eq't	30	28SEP2013	27OCT2013	02OCT2013	31OCT2013			I DOU A:
EMT713200	DOU A: Phase 3 -Manual Testing of Sub-system	30	08OCT2013	06NOV2013	12OCT2013	10NOV2013			I I DOU
EMT713300	DOU A: Phase 3 - Auto Testing of Sub-system	30	12OCT2013	10NOV2013	12OCT2013	10NOV2013			l DOU
EMT714100	DOU A: Phase 4 - Introduce Foul Air	7	26NOV2013	02DEC2013	11NOV2013	17NOV2013			1 1 1
EMT714200	DOU A: Phase 4 Auto Test/Process Commissioning	30	03DEC2013	01JAN2014	18NOV2013	17DEC2013			
DOU B				•		•			1 1
Building and Str	uctures								
EMT720220	DOU B: Phase 1 - Installation Inspection	40	13SEP2013	22OCT2013	21AUG2013	29SEP2013			DOU B: F
EMT722100	DOU B: Phase 2 - Dry Test of Individual Eq't	20	05NOV2013	24NOV2013	30SEP2013	19OCT2013			1
EMT723100	DOU B: Phase 3 - Wet Test of Individual Eq't	30	08NOV2013	07DEC2013	03OCT2013	01NOV2013			
EMT723200	DOU B: Phase 3 - Manual Testing of Sub-system	30	08NOV2013	07DEC2013	03OCT2013	01NOV2013			<u> </u>
	DOU B: Phase 3 - Auto Testing of Sub-system	30	08NOV2013	07DEC2013	03OCT2013	01NOV2013			1 i i
Control System		_							<u> </u>
Building and Str	uctures								Ali i i
	Control/SCADA: Phase 1 - Insp PLC LCP DOUA	30	24AUG2013	11SEP2013	24AUG2013	11SEP2013	24AUG2013		Control/SCADA: Pha
	Control/SCADA: Phase 1 - Insp PLC LCP DOUB	30		16SEP2013			23AUG2013		Control/SCADA: Pl
	Control/SCADA: Phase 1 - Insp PLC LCP OFPS	30		21NOV2013		17NOV2013			
	Control/SCADA: Phase 2 - PLC LCP PTW	30		11SEP2013	16AUG2013	08SEP2013	16AUG2013		Control/SCADA: Pha
	Control/SCADA: Phase 2 - PLC LCP CEPT	30		11SEP2013		11SEP2013	16AUG2013		Control/SCADA: Pha
	Control/SCADA: Phase 2 - PLC LCP UV RW	30		26SEP2013			10/10/2013		Control/SCADA: PIR
	Control/SCADA: Phase 2 - PLC LCP UV RVV Control/SCADA: Phase 2 - PLC LCP CHEM	30		26SEP2013					Control/SCADA:
							<u> </u>		Control/SCADA:
	Control/SCADA: Phase 2 - PLC LCP SDW Control/SCADA: Phase 2 - PLC LCP DOUA	30	12SEP2013	26SEP2013 11OCT2013		110CT2013			Control/SCADA Control/SCADA
		30							Control/SC
	Control/SCADA: Phase 2 - PLC LCP DOUB Control/SCADA: Phase 2 - PLC LCP OFPS	30	17SEP2013	16OCT2013 21DEC2013		02OCT2013 17DEC2013			
	CONTINUE SCADA. FIIASE 2 - FLO LOP OPPS	30	22INO V 2013	121DEC2013	I IOINO VZUIJ	1/0502013			1 1 1
Building Services									4 (
Building and Str				1000					 :
	Admin BS: Phase 1 - Installation Inspection	30		26SEP2013			20JUL2013		Admin BS: Phas
EMT832000	Admin BS: Phase 2 - Dry Test of Individual Eq't	30	17SEP2013			28SEP2013			Admin BS:
	Admin DO: Dhann O Mark Took of Individual Edit	30	07CT2013	05NOV2013	19SEP2013	18OCT2013	1 1		Admir
EMT833000	Admin BS: Phase 3 - Wet Test of Individual Eq't								1 II ———
EMT833000 EMT835000	Admin BS: Phase 3 - Wet Test of Individual Eqt Admin BS: Phase 3 - Manual Testing of Sub-system Admin BS: Phase 3 - Auto Testing of Sub-system	30	22OCT2013	20NOV2013 28DEC2013	04OCT2013	02NOV2013 22NOV2013			

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