

Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

Sixth Quarterly Environmental Monitoring & Audit (EM&A) Report

19 October 2015

Environmental Resources Management

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| This document presents the Sixth Quarterly EM&A Report for Tuen Mun – Chek Lap Kok Link Southern Connection Viaduct Section. | | Approved by: | | | | |
| | | Mr C Parti | | g Reid | | |
| | | Certif | | oy: | | |
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| | 6 th Quarterly EM&A Report | VA | R | JT | CAR | 19/10/15 |
| Revision | Description | Ву | / | Checked | Approved | Date |
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Ref.: HYDHZMBEEM00_0_3497L.15

22 October 2015

AECOM Supervising Officer's Representative's Office 780 Cheung Tung Road, Lantau, N.T. By Fax (3691 2899) and By Post

Attention: Mr. Daniel Ip

Dear Mr. Ip,

Re: Agreement No. CE 48/2011 (EP) Environmental Project Office for the HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2012/07 TM-CLKL Southern Connection Viaduct Section Sixth Quarterly EM&A Report (EP-354/2009/D)

Reference is made to the Sixth Quarterly Environmental Monitoring and Audit (EM&A) Report (ET's ref.: "0215660_6th Qtr EM&A_20151002.doc" dated 19 Oct. 2015) certified by the ET Leader and provided to us via e-mail on 19 Oct. 2015.

We are pleased to inform you that we have no adverse comments on the captioned quarterly EM&A report.

Thank you for your attention. Please do not hesitate to contact the undersigned or the ENPO Leader Mr. Y. H. Hui should you have any queries.

Yours sincerely,

Haffenbleog

F. C. Tsang Independent Environmental Checker Tuen Mun – Chek Lap Kok Link

c.c. HyD – Mr. Stephen Chan (By Fax: 3188 6614) HyD – Mr. Matthew Fung (By Fax: 3188 6614) AECOM – Mr. Conrad Ng (By Fax: 3922 9797) ERM – Mr. Jovy Tam (By Fax: 2723 5660) Gammon – Mr. Roy Leung (By Fax: 3520 0486)

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EXECUTIVE SUMMARY

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). ENVIRON Hong Kong Ltd. was employed by the HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Further applications for variation of environmental permit (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively completed by 2018. The impact monitoring of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well as environmental site inspections, commenced on 31 October 2013.

This is the sixth quarterly EM&A report presenting the EM&A works carried out during the period from 1 March to 31 May 2015 for the Southern Connection Viaduct Section in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

March 2015

Marine Works

- Construction of Pile caps at Viaducts B, C, D & E;
- Marine piling platform installation & uninstallation;
- Marine Piling at Viaducts C & E; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Pre-drilling works at Viaduct A;
- Construction of pile cap at Viaducts B, C, D & E;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

<u>April 2015</u>

Marine Works

- Construction and installation of pile caps;
- Marine piling platform installation & uninstallation;
- Pier construction;
- Installation of launching gantry;
- Marine piling; and,
- Installation of pier head segment.

Land-based Works

- Construction and installation of pile caps;
- Pier construction;
- Drainage works;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Tree survey, felling and transplanting;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

<u>May 2015</u>

Marine Works

- Construction and installation of pile caps;
- Marine piling platform installation & uninstallation;
- Pier construction;
- Installation of launching gantry;
- Marine piling and
- Installation of pier head segment.

Land-based Works

- Construction and installation of pile caps;
- Pier construction;
- Drainage works;
- Re-alignment of Cheung Tung Road;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Tree survey, felling and transplanting;
- Relocation of MTRC fence; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

A summary of monitoring and audit activities conducted in the reporting period is listed below:

24-hour TSP monitoring

17 sessions

| 1-hour TSP monitoring | 17 sessions |
|-------------------------------------|-------------|
| Noise monitoring | 17 sessions |
| Water quality monitoring | 39 sessions |
| Dolphin monitoring | 6 sessions |
| Joint Environmental site inspection | 13 sessions |

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Levels was recorded for air quality monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting period.

Breaches of Action and Limit Levels for Water Quality

One (1) exceedance of Action Level for depth-averaged SS during mid-ebb tide was recorded for water quality monitoring in the reporting period.

Impact Dolphin Monitoring

Whilst one (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between March and May 2015, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations during the dolphin monitoring in this reporting quarter. The exceedance is considered unlikely due to the works of this Project upon further investigation.

Daily marine mammal exclusion zone monitoring was undertaken during the period of marine works under this Contract. Passive Acoustic Monitoring (PAM) was also implemented for the detection of marine mammal when marine works were carried out outside the daylight hours under this Contract. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was recorded in the monitoring period during the exclusion zone monitoring.

Environmental Complaints, Non-compliance & Summons

No environmental complaint, notification of summons and successful prosecution was received in the reporting period.

Reporting Change

The landscape and visual impact mitigation measures was reported in a separated checklist instead of reported in the weekly checklist with other mitigation measures, and the status of landscape and visual impact mitigation measures are summarized in the EMIS of the EM&A Reports. A complete

proposal for Landscape and Visual (L&V) mitigation measures monitoring was submitted which was justified by the Environmental Team Leader (ETL) and the Independent Environmental Checker (IEC) had no adverse comment.

Upcoming Works for the Next Reporting Period

Works to be undertaken in the coming quarter include the following:

June 2015

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pile cap installation;
- Pier construction;
- Launching gantry assembly;
- Marine piling and
- Installation of pier head segment

Land-based Works

- Construction and installation of pile caps;
- Pier construction;
- Pile cap installation;
- Re-alignment of Cheung Tung Road;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Relocation of MTRC fence; and
- Slope work of Slopes 9SE-B/C9 and 9SE-B/F85

July 2015

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pile cap installation;
- Pier construction;
- Launching gantry assembly;
- Marine piling; and,
- Installation of pier head segment

Land-based Works

- Predrilling at Viaduct F;
- Construction and installation of pile caps;
- Pier construction;
- Pile cap installation;
- Re-alignment of Cheung Tung Road;

- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Relocation of MTRC fence; and,
- Slope work of Viaducts A & B

August 2015

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pile cap installation;
- Pier construction;
- Launching gantry assembly;
- Marine piling and
- Installation of pier head segment

Land-based Works

- Predrilling at Viaduct F;
- Construction and installation of pile caps;
- Pier construction;
- Pile cap installation;
- Re-alignment of Cheung Tung Road;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Relocation of MTRC fence; and
- Slope work of Viaducts A & B.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the coming quarterly period are mainly associated with air quality, noise, marine water quality, marine ecology and waste management issue.

1.1 BACKGROUND

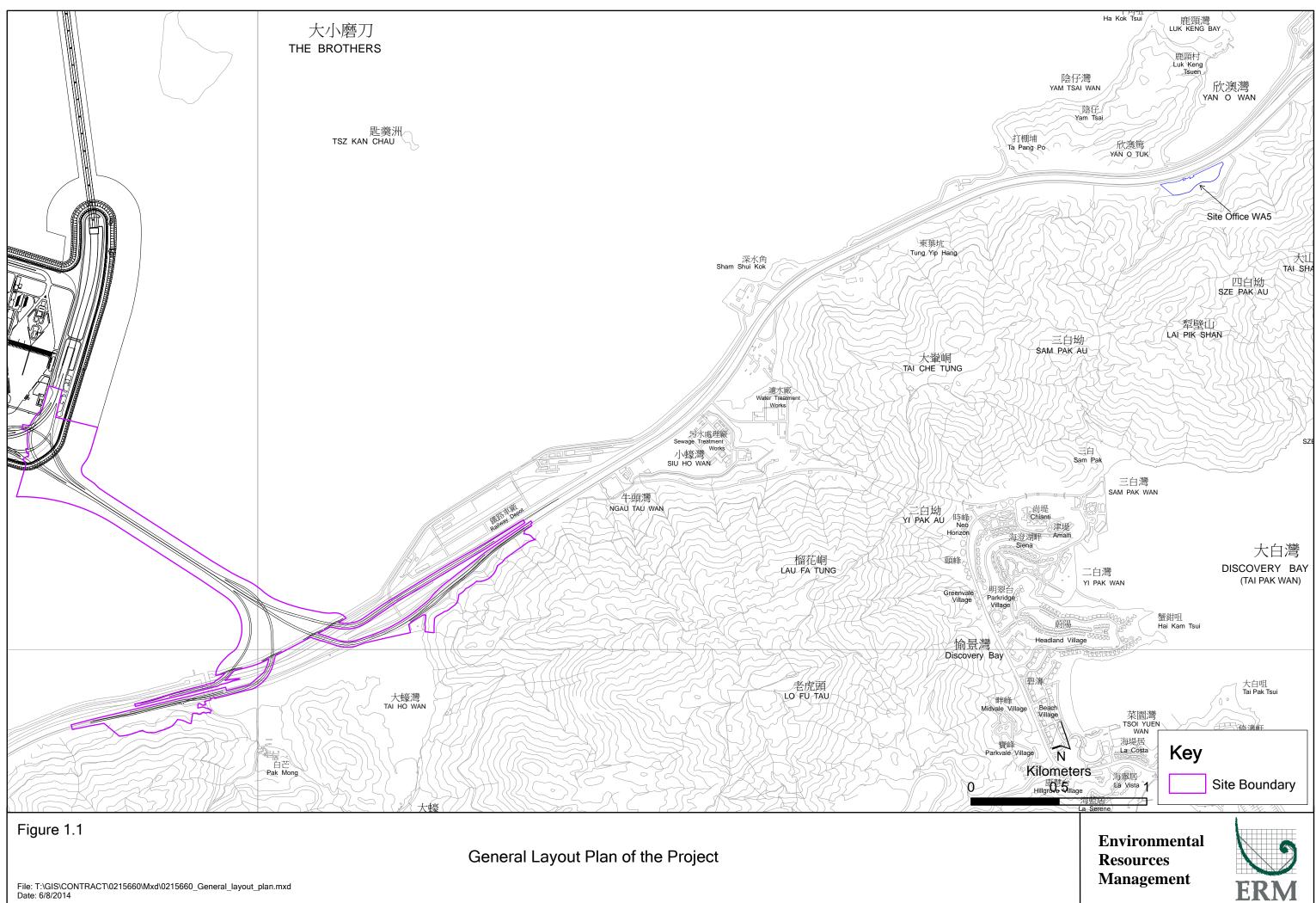
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

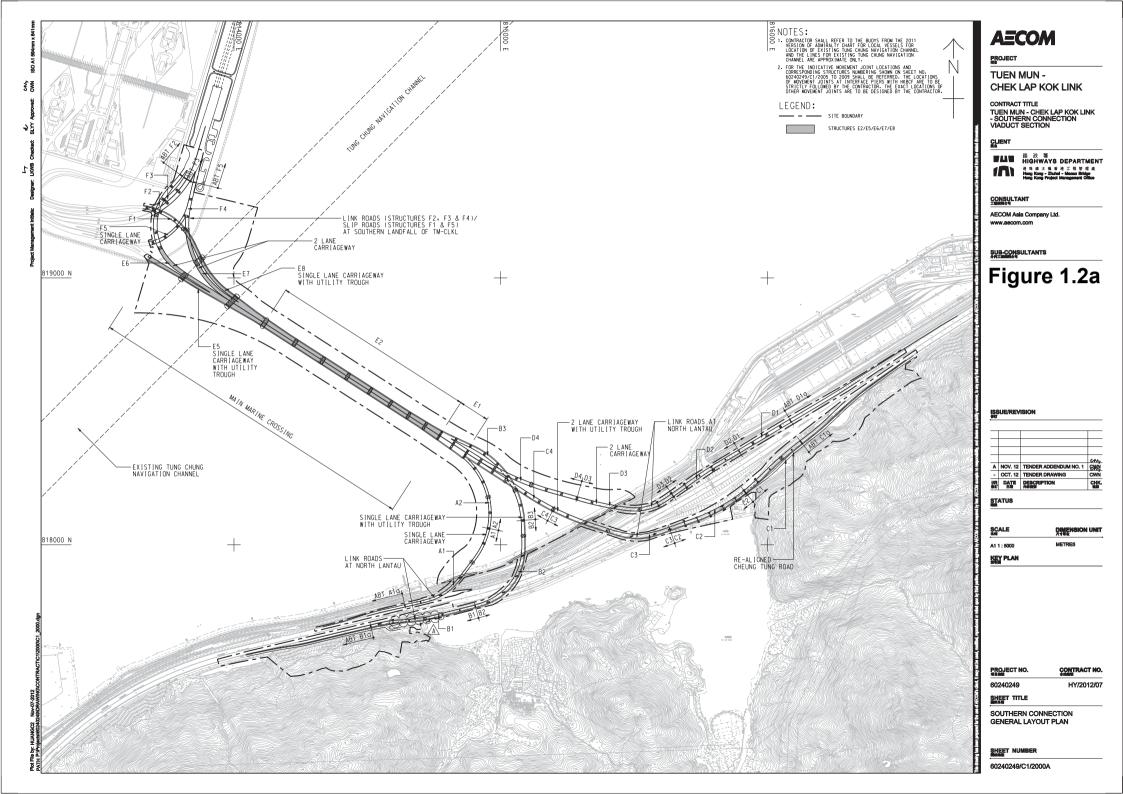
An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. *ESB*-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM*). The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number: *AEIAR*-146/2009), an Environmental Permit (*EP*-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (*EP*-354/2009A) was issued on 8 December 2010. Further applications for variation of environmental permit (VEP), *EP*-354/2009/B, *EP*-354/2009/C and *EP*-354/2009/D, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

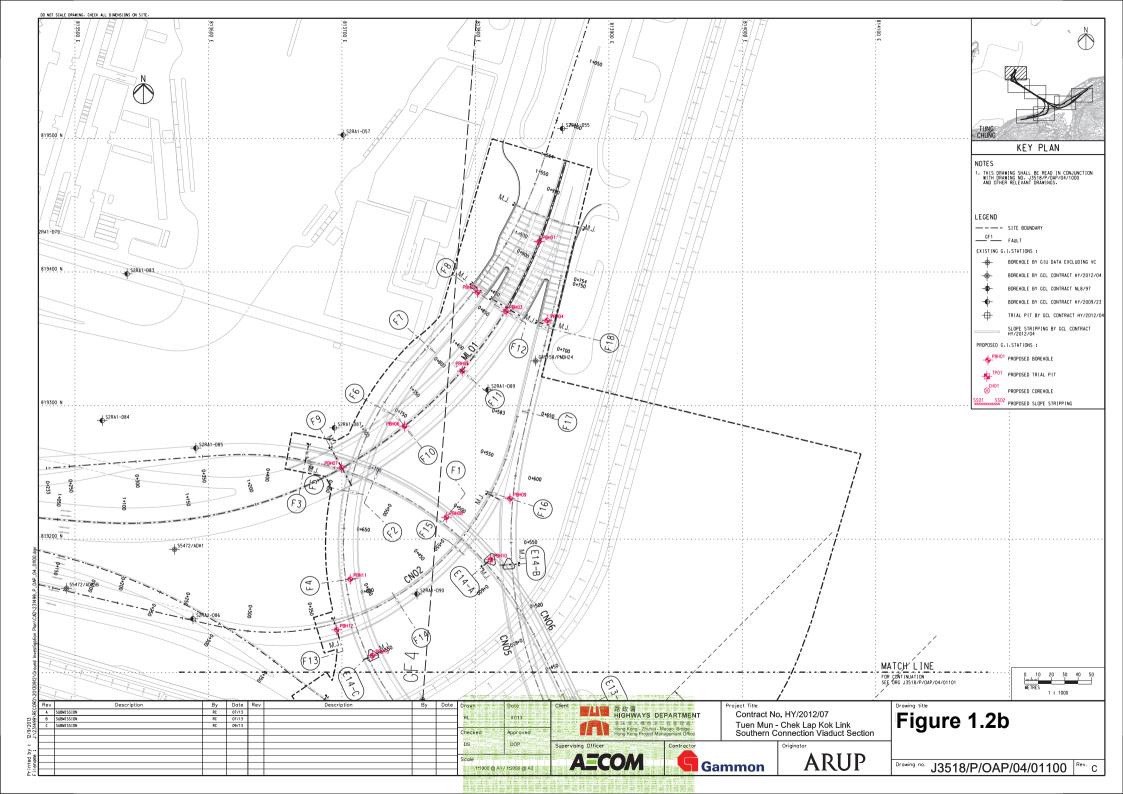
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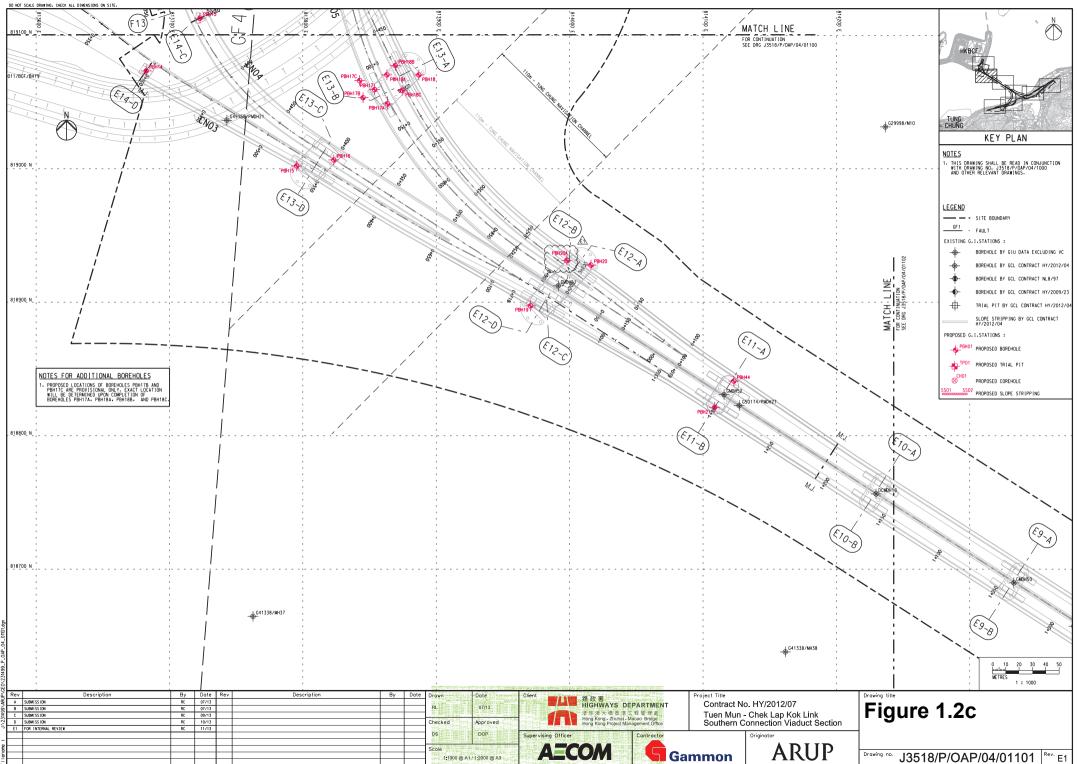
The construction phase of the Contract commenced on 31 October 2013 and will be tentatively be completed by 2018. The impact monitoring phase of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well environmental site inspections, commenced on 31 October 2013.

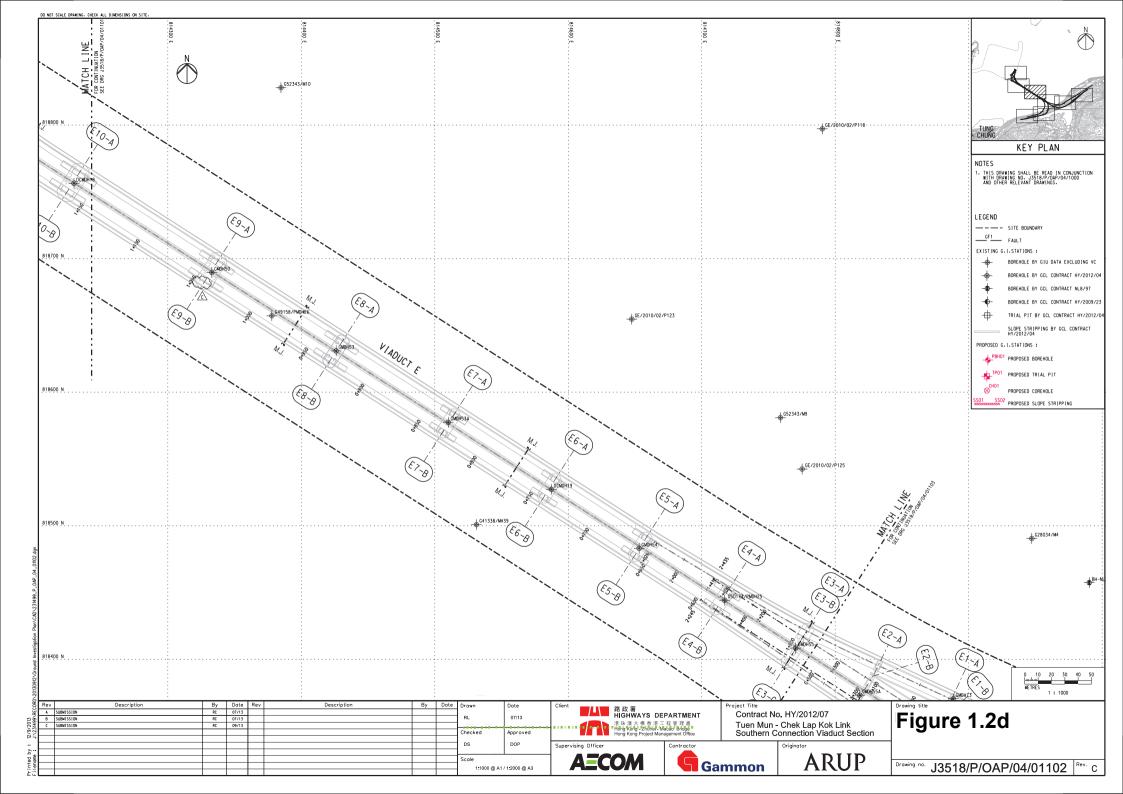
The general layout plan of the Contract components is presented in *Figures 1.1* & *1.2a to l.*



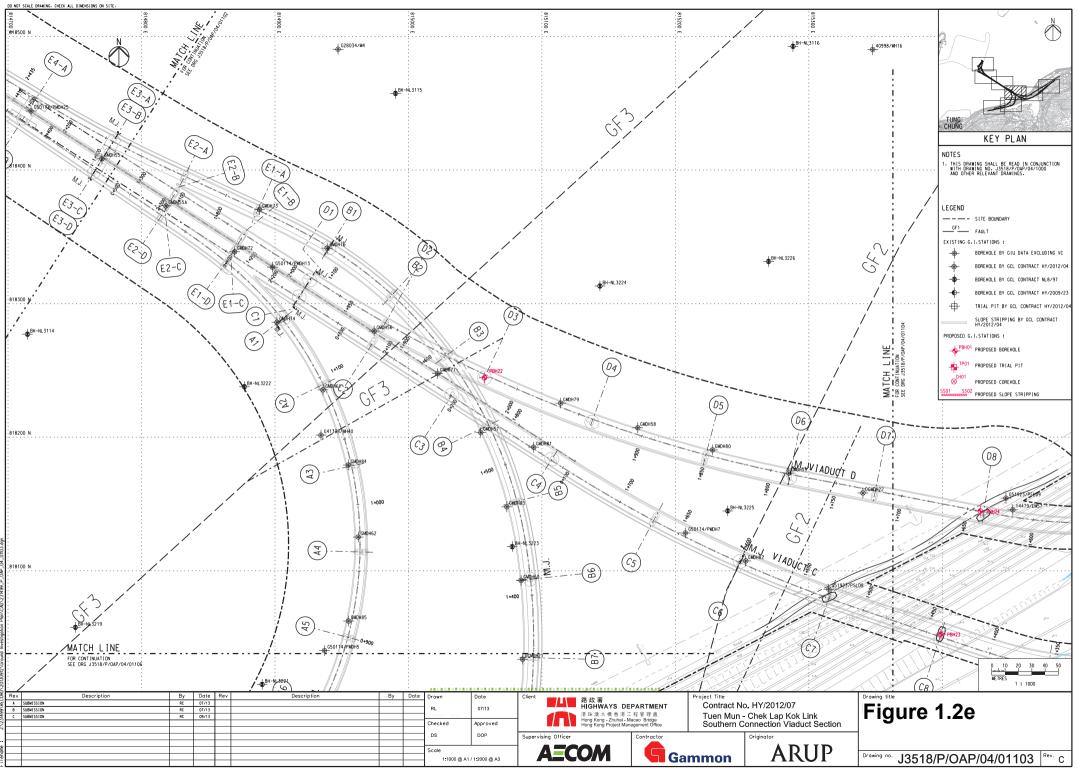


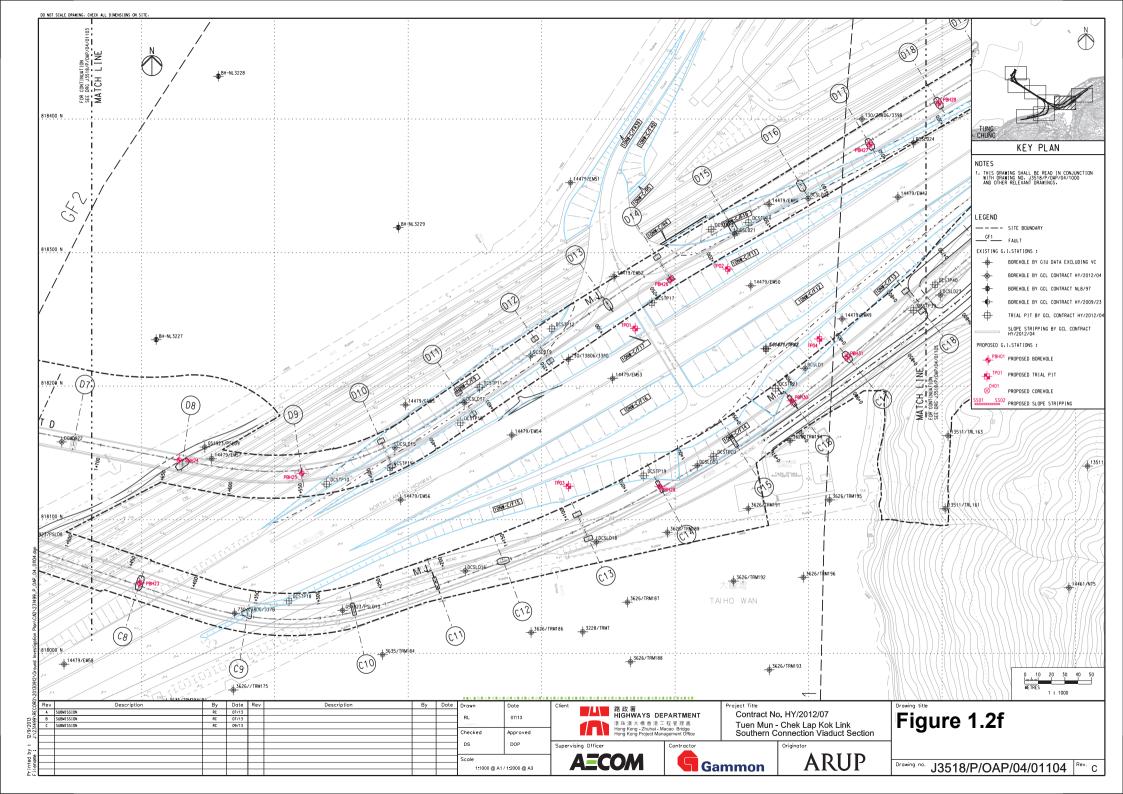


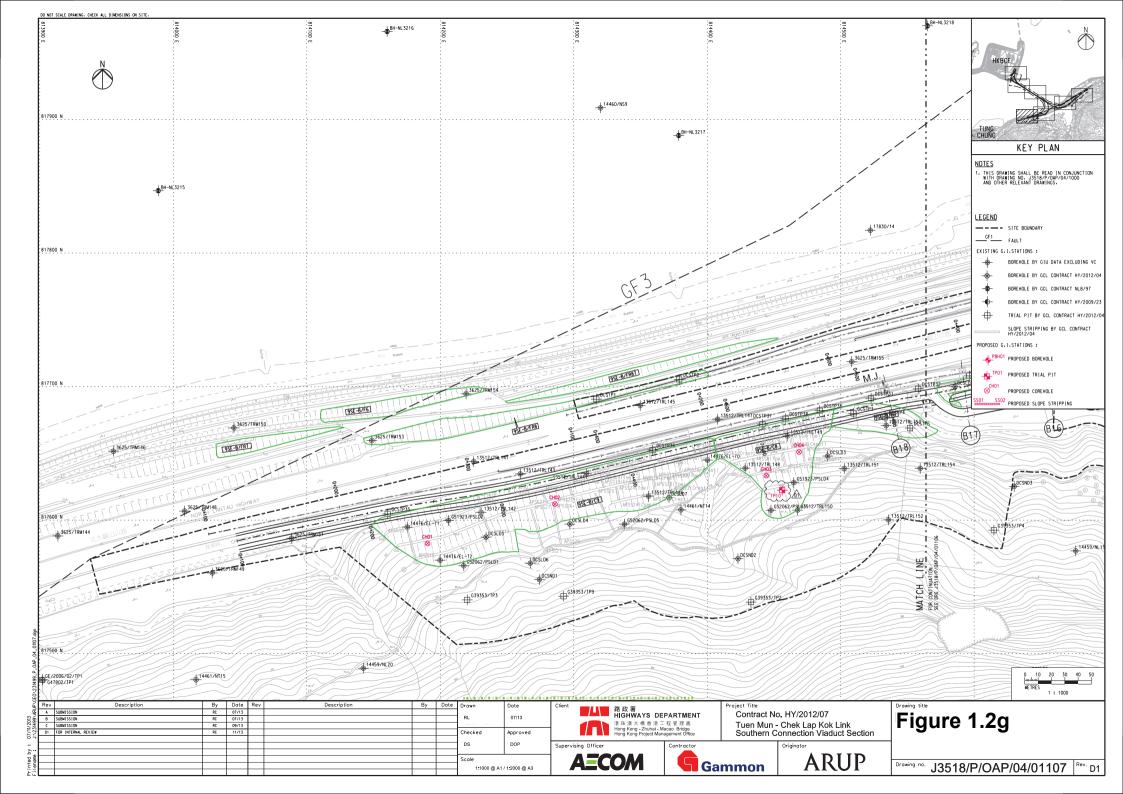


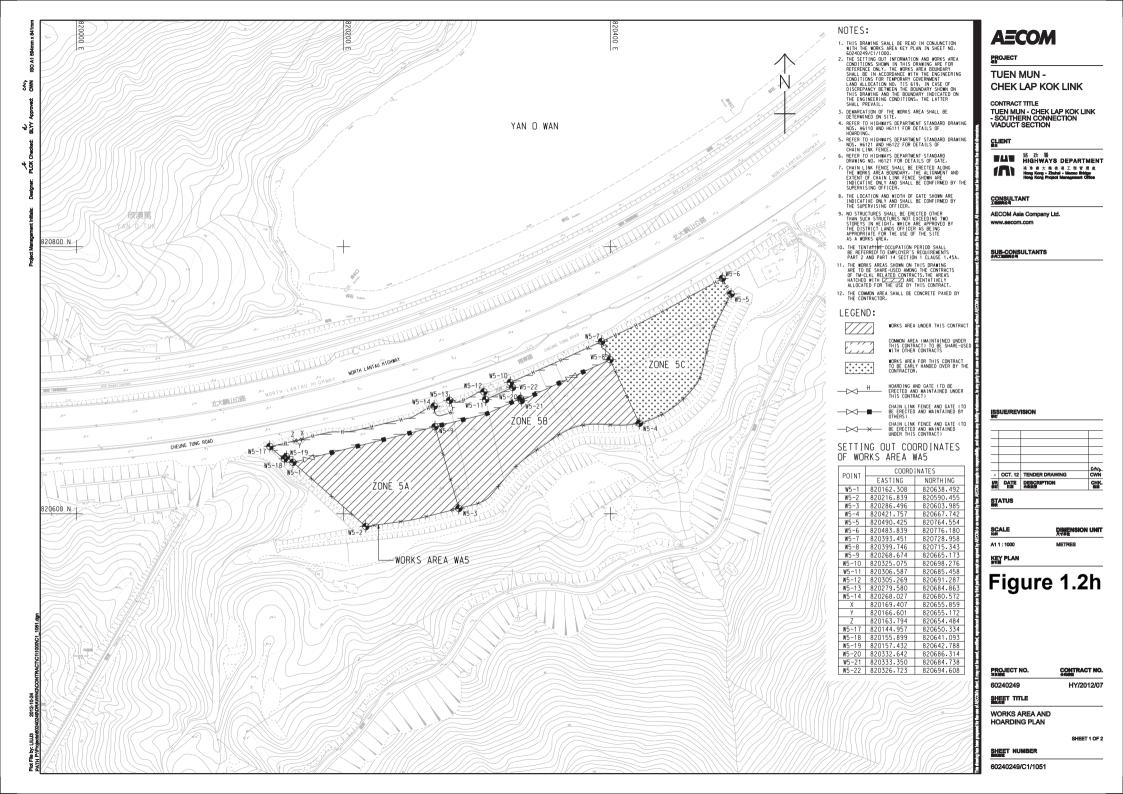


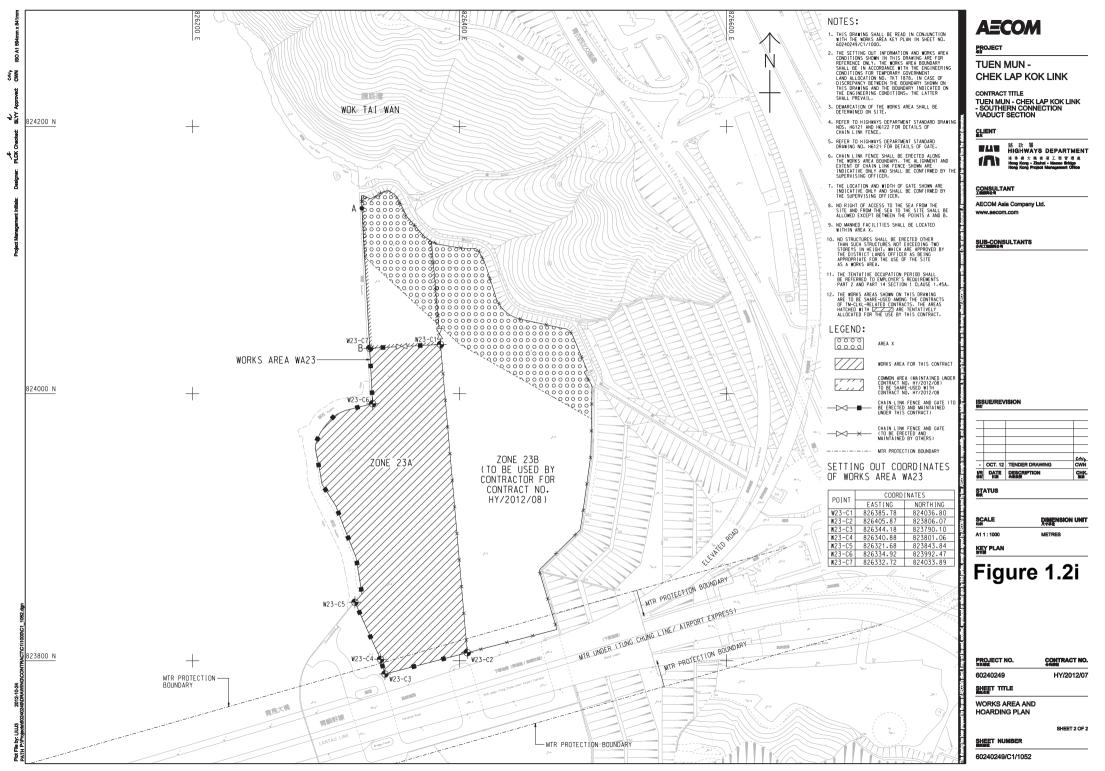


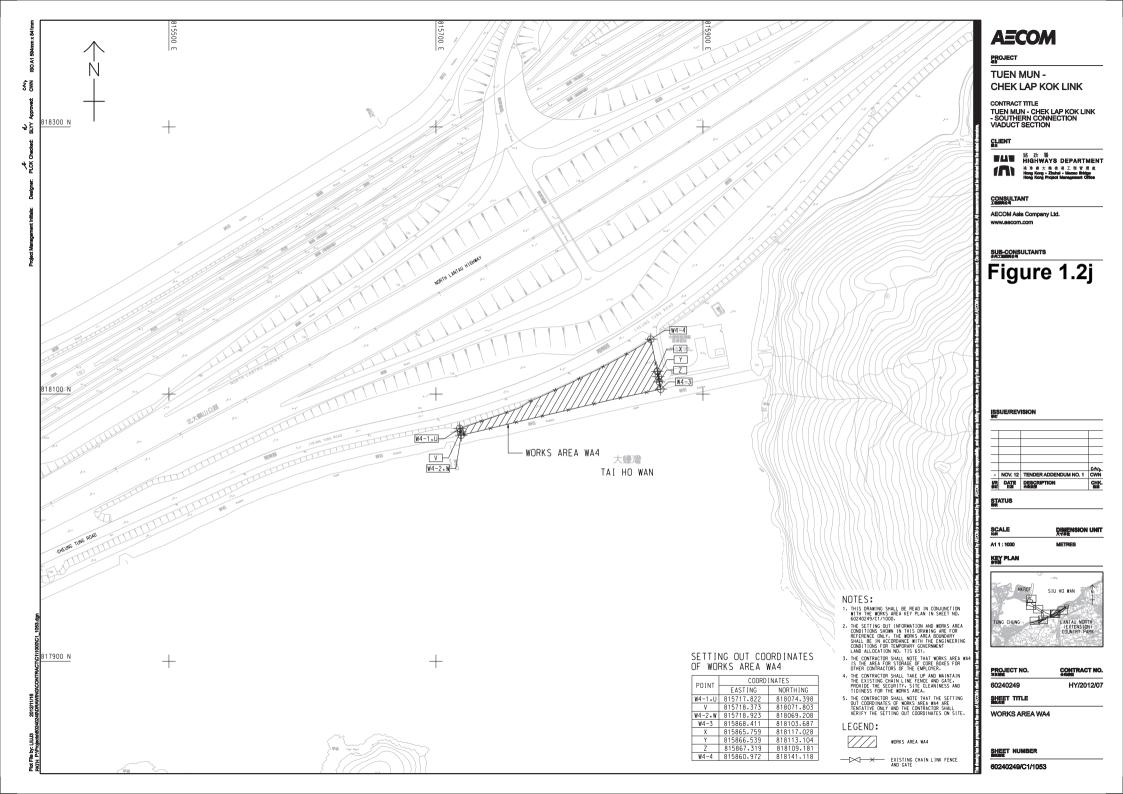


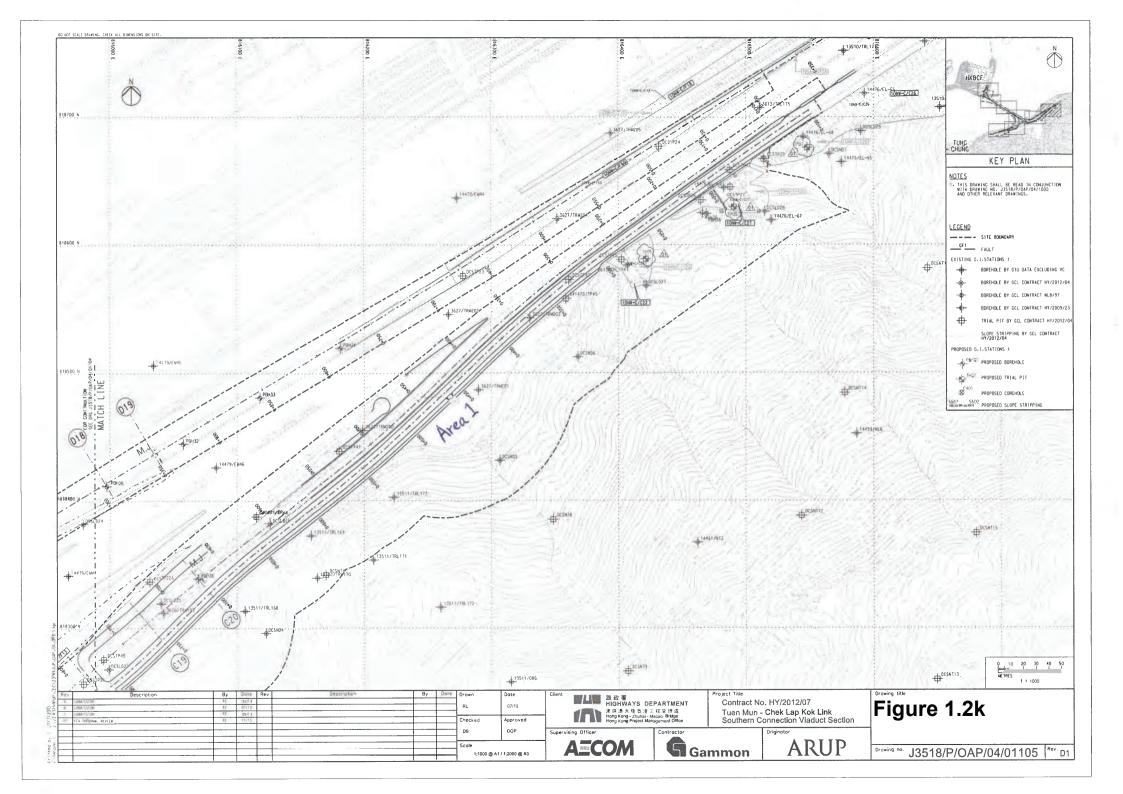


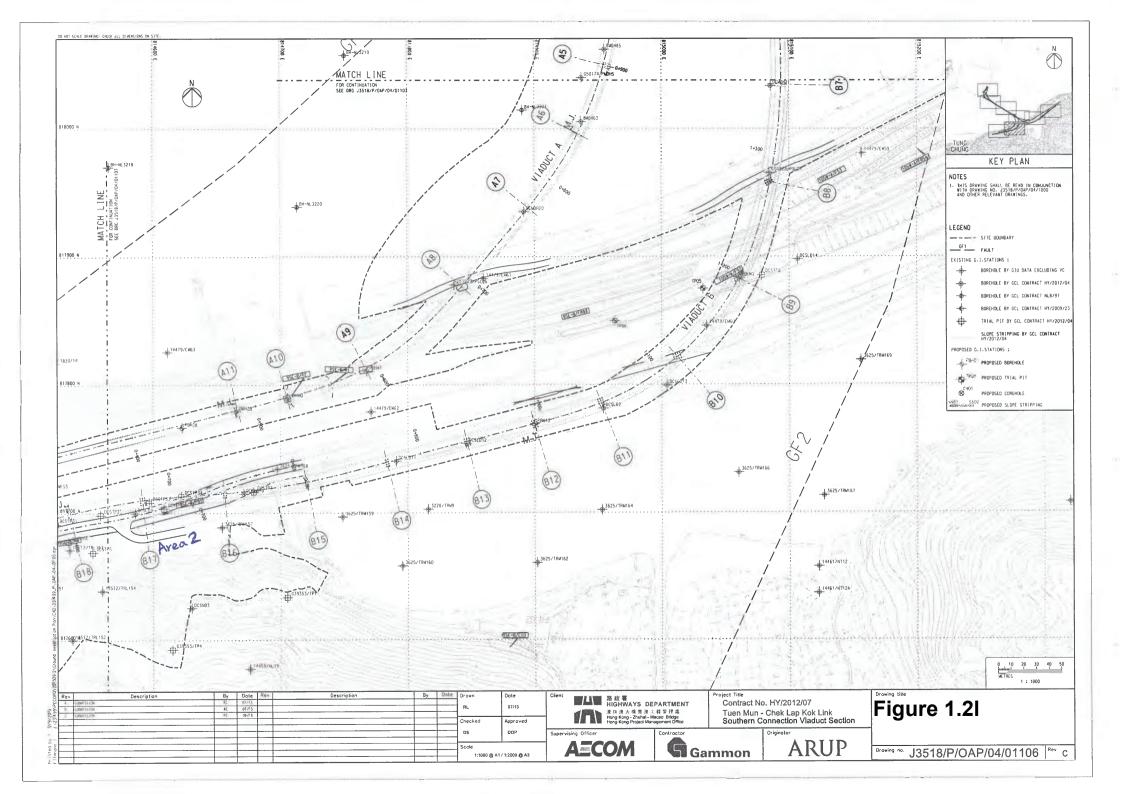












1.2 SCOPE OF REPORT

This is the Sixth Quarterly EM&A Report under the *Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.* This report presents a summary of the environmental monitoring and audit works from 1 March to 31 May 2015.

1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

| Party | Position | Name | Telephone | Fax |
|--|------------------------------|----------------|-----------|-----------|
| SOR | Chief Resident | Daniel Ip | 3553 3800 | 2492 2057 |
| (AECOM Asia Company Limited) | Engineer | | | |
| | Resident Engineer | Kingman Chan | 3691 2950 | 3691 2899 |
| ENPO / IEC (Ramboll Environ | ENPO Leader | Y.H. Hui | 3547 2133 | 3465 2899 |
| Hong Kong Ltd.) | IEC | Dr. F.C. Tsang | 3547 2134 | 3465 2899 |
| Contractor (Gammon Construction Limited) | Environmental Manager | Brian Kam | 3520 0387 | 3520 0486 |
| | Environmental Officer | Roy Leung | 3520 0387 | 3520 0486 |
| | 24-hour Complaint Hotline | | 9738 4332 | |
| ET (ERM-HK) | ET Leader | Jovy Tam | 2271 3113 | 2723 5660 |

Table 1.1Contact Information of Key Personnel

1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of the Contract commenced on 31 October 2013. The rolling construction programme for the period of March to May 2015 is shown in *Appendix B*.

As informed by the Contractor, details of the major works carried out in this reporting period are listed below:

March 2015

Marine Works

- Construction of Pile caps at Viaducts B, C, D & E;
- Marine piling platform installation & uninstallation;
- Marine Piling at Viaducts C & E; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Pre-drilling works at Viaduct A;
- Construction of pile cap at Viaducts B, C, D & E;
- Additional land GI, trial pits & lab testing;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

<u>April 2015</u>

Marine Works

- Construction and installation of pile caps;
- Marine piling platform installation & uninstallation;
- Pier construction;
- Installation of launching gantry;
- Marine piling; and,
- Installation of pier head segment.

Land-based Works

- Construction and installation of pile caps;
- Pier construction;
- Drainage works;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Tree survey, felling and transplanting;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

<u>May 2015</u>

Marine Works

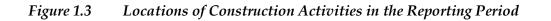
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- Installation of pier head segment.

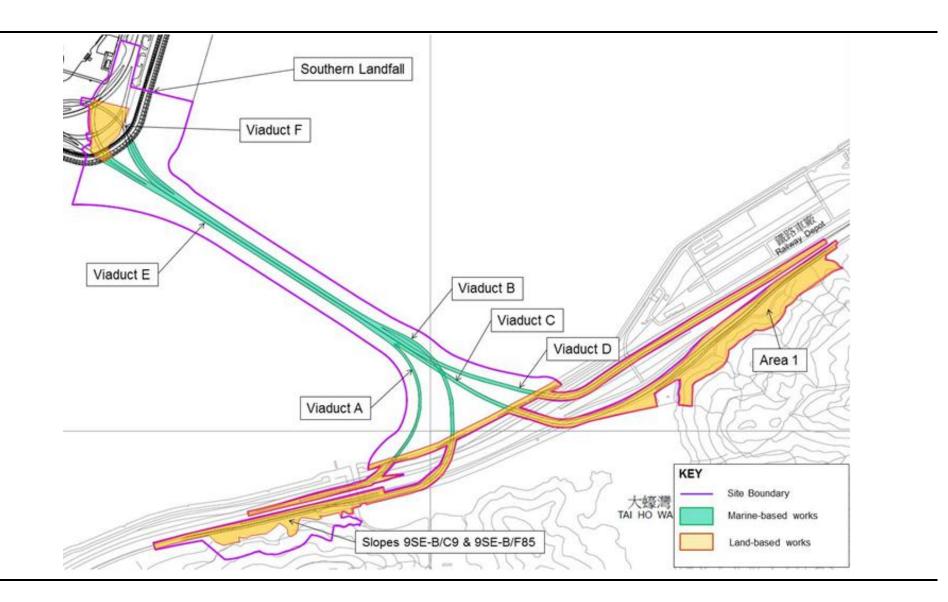
Land-based Works

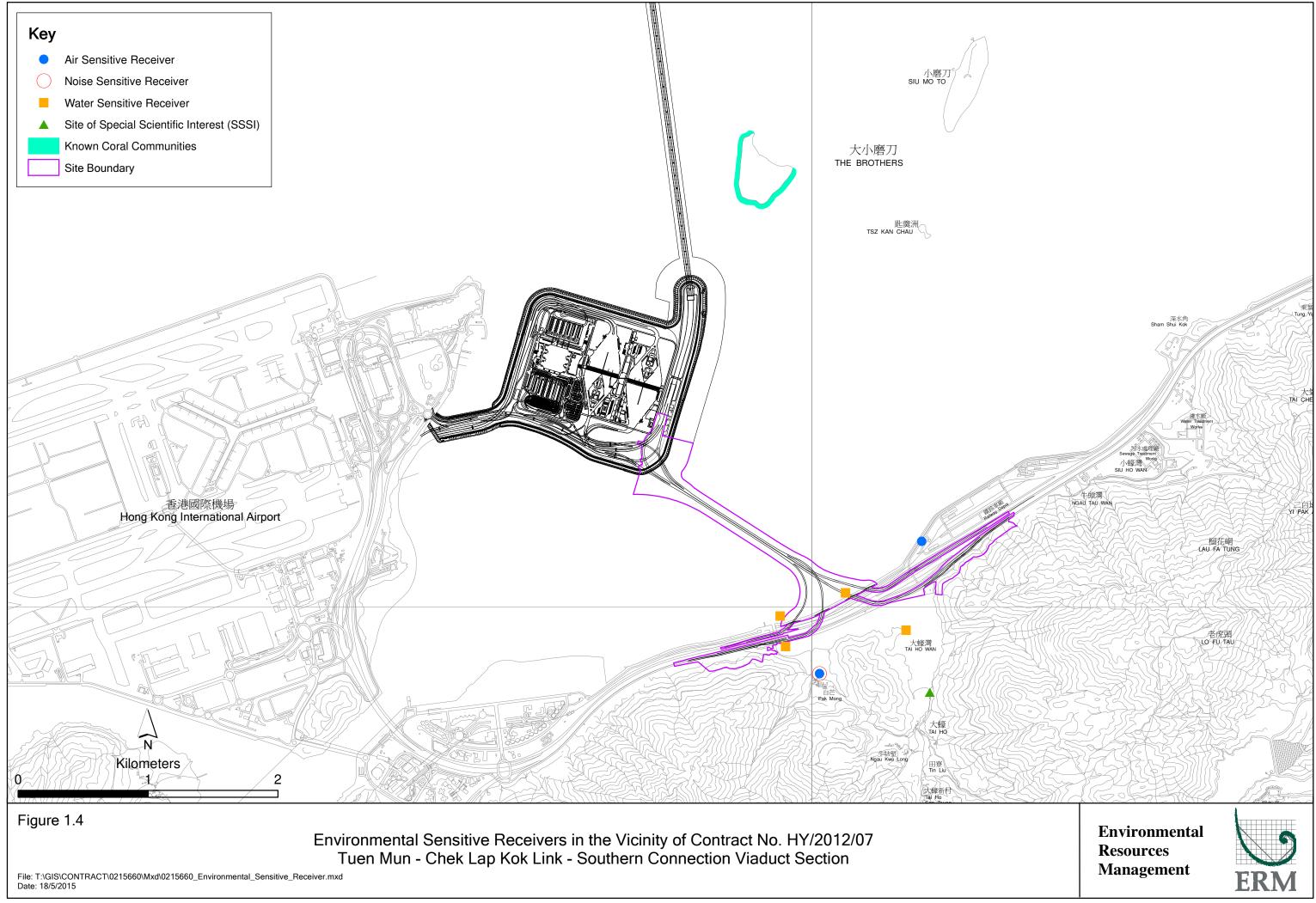
- Construction and installation of pile caps;
- Pier construction;
- Drainage works;
- Re-alignment of Cheung Tung Road;
- Land piling;

- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Tree survey, felling and transplanting;
- Relocation of MTRC fence; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

The locations of the construction activities are shown in *Figure 1.3*. The Environmental Sensitive Receivers in the vicinity of the Project are shown in *Figure 1.4*.







The environmental mitigation measures implementation schedule is presented in *Appendix C*.

1.5 SUMMARY OF EM&A PROGRAMME REQUIREMENTS

The EM&A programme required environmental monitoring for air quality, noise, water quality and marine ecology as well as environmental site inspections for air quality, noise, water quality, waste management, marine ecology and landscape and visual impacts. The EM&A requirements and related findings for each component are described in the following sections, which include:

- Monitoring parameters;
- Monitoring schedules for the reporting months and forthcoming months;
- Action and Limit levels for all environmental parameters;
- Event Action Plan;
- Results and observations;
- Environmental mitigation measures, as recommended in the approved EIA Report; and
- Environmental requirement in contract documents.

The EM&A programme required environmental monitoring for air quality, noise, water quality and marine ecology as well as environmental site inspections for air quality, noise, water quality, waste management, marine ecology and landscape and visual impacts. The EM&A requirements and related findings for each component are summarized in the following sections.

2.1 AIR QUALITY

The baseline air quality monitoring undertaken by the Hong Kong – Zhuhai – Macao Bridge Hong Kong Projects (HKZMB) during October 2011 has included the two monitoring stations ASR9A and ASR9C for this project. Thus, the baseline monitoring results and Action/ Limit Level presented in HKZMB Baseline Monitoring Report ⁽¹⁾ are adopted for this Project.

2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days while the highest dust impact was expected. Impact 24-hour TSP monitoring was carried out once every six (6) days. The Action and Limit Levels of the air quality monitoring is provided in *Appendix D*.

1-hour TSP and 24-hour TSP monitoring were conducted at 2 alternative air quality monitoring stations, ASR8A (Area 4) and ASR9 (Entrance of MTR Depot) during the reporting period in accordance with the requirement of the Updated EM&A Manual. The monitoring stations are indicated in *Figure 2.1* and details are presented in *Table 2.1*.

High Volume Samplers (HVSs) were used for carrying out 1-hour and 24-hour TSP monitoring during the reporting period. The HVS meets all requirements of the Updated EM&A Manual. Brand and model of the equipment are given in *Table 2.2*.

Wind data monitoring equipment was installed at Area 4 during the reporting period for logging wind speed and wind direction. The wind sensor was setup such that it was clear of obstructions or turbulence caused by building. The wind data monitoring equipment is recalibrated at least once every six months.

2

 ⁽¹⁾ Agreement No. CE 35/2011 (EP) Baseline Environmental Monitoring for Hong Kong - Zhuhai - Macao Bridge Hong Kong Projects
 - Investigation. Baseline Environmental Monitoring Report (Version C). Submitted on 8 March 2012 and subsequently approved by EPD.

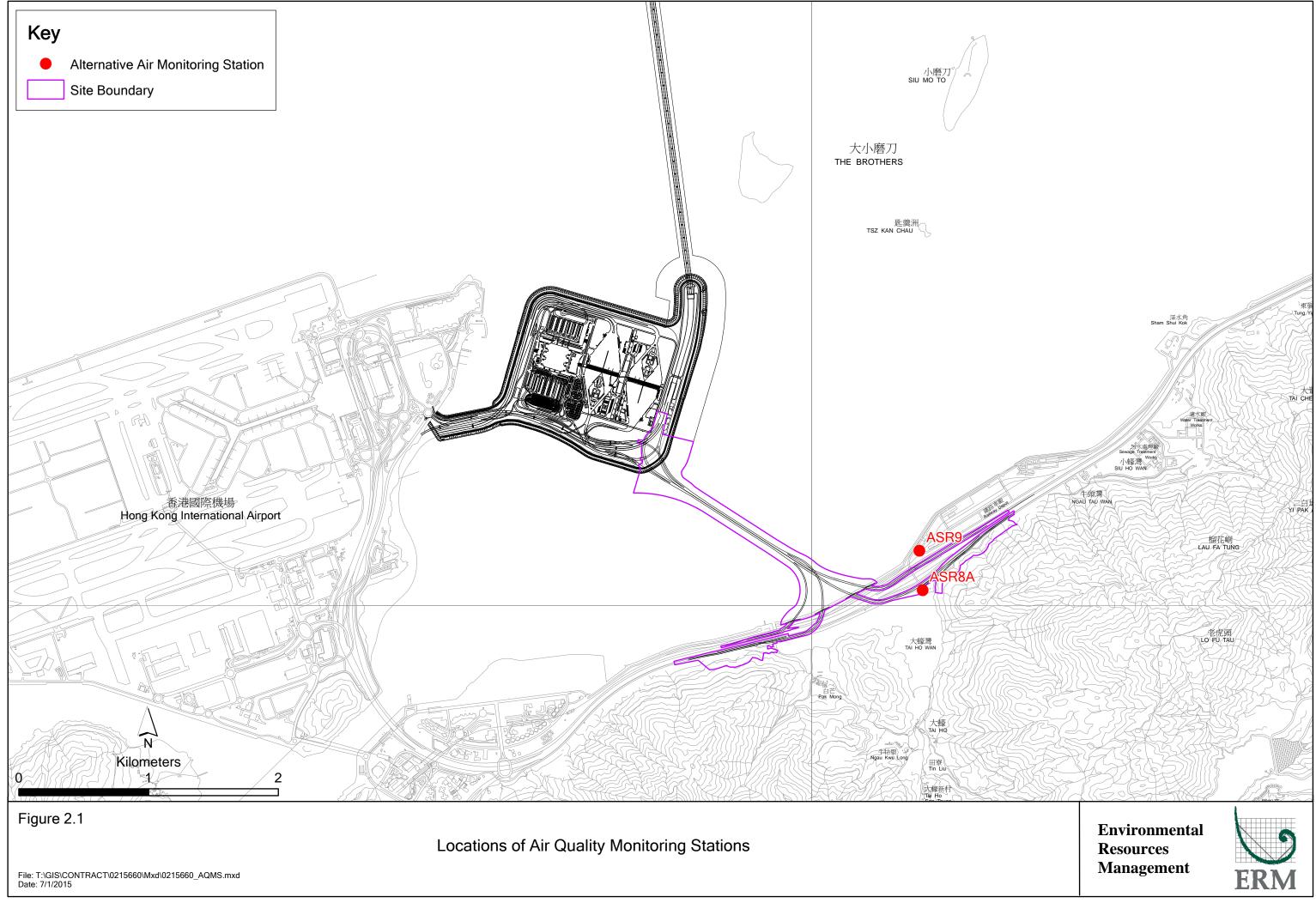


Table 2.1Locations of Impact Air Quality Monitoring Stations and Monitoring Dates
in this Reporting Period

| Monitoring Station ⁽¹⁾ | Monitoring Period | Location | Description | Parameters & Frequency |
|--------------------------------------|--|--------------|---|---|
| ASR8A | 4, 10, 16, 19, 25 and 31 March 2015 | Area 4 | On ground at the Area 4 | • 1-hour Total Suspended |
| ASR9 | 6, 9, 15, 21, 27 and 30 April 2015 6, 12, 18, 21 and 27 May 2015 | MTR Depot | On the ground nearby MTR Depot Entrance | Particulates (1-hour TSP, µg/m³), 3 times per day every 6 days 24-hour Total Suspended Particulates (24-hour TSP, µg/m³), daily for 24-hour every 6 days |

Note:

(1) Air Quality Monitoring Stations ASR9A and ASR9C at Siu Ho Wan MTRC Depot proposed in accordance with the Updated EM&A were relocated to ASR9 and ASR8A respectively.

Table 2.2Air Quality Monitoring Equipment

| Equipment | Brand and Model |
|---------------------------------|--|
| High Volume Sampler | Tisch Environmental Mass Flow Controlled |
| (1-hour TSP and 24-hour TSP) | Total Suspended Particulate (TSP) High |
| | Volume Sampler (Model No. TE-5170) |
| Wind Sensor | Global Water (Wind Speed Sensor: WE550; Wind Direction Sensor: WE570) |
| Wind Anemometer for calibration | Lutron (Model No. AM-4201) |

2.1.2 Action & Limit Levels

The Action and Limit Levels of the air quality monitoring are provided in *Appendix D*. The Event and Action plan is presented in *Appendix J*.

2.1.3 Monitoring Schedule for the Reporting Quarter

The schedules for air quality monitoring in the reporting quarter are provided in *Appendix E*.

2.1.4 Results and Observations

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in *Tables 2.3* and *2.4*, respectively. Monitoring results are presented graphically in *Appendix F*. Detailed impact air quality monitoring results and meteorological information were reported in the *Seventeenth* to *Nineteenth Monthly EM&A Report*.

Table 2.3Summary of 1-hour TSP Monitoring Results in this Reporting Period

| Month | Station | Average (µg/m³) | Range (µg/m³) | Action Level (μg/m³) | Limit Level (µg/m³) |
|------------|--|--------------------|---------------|-------------------------|------------------------|
| March 2015 | ASR 8A | 88 | 58 - 156 | 394 | 500 |
| | esources Managemen M&A_20151002.doc | Т | | | GCL 19 October 2015 |

8

| Month | Station | Average (µg/m³) | Range (µg/m³) | Action Level (μg/m³) | Limit Level (µg/m³) |
|------------|---------|--------------------|---------------|-------------------------|------------------------|
| | ASR 9 | 109 | 60 - 235 | 393 | 500 |
| April 2015 | ASR 8A | 86 | 59 - 124 | 394 | 500 |
| | ASR 9 | 112 | 59 - 217 | 393 | 500 |
| May 2015 | ASR 8A | 64 | 49 - 149 | 394 | 500 |
| | ASR 9 | 77 | 53 - 119 | 393 | 500 |

Table 2.4Summary of 24-hour TSP Monitoring Results in this Reporting Period

| Month | Station | Average (µg/m³) | Range (µg/m³) | Action Level (μg/m³) | Limit Level (µg/m³) |
|------------|---------|--------------------|---------------|-------------------------|------------------------|
| March 2015 | ASR 8A | 57 | 43 - 76 | 178 | 260 |
| | ASR 9 | 77 | 54 - 101 | 178 | 260 |
| April 2015 | ASR 8A | 56 | 50 - 60 | 178 | 260 |
| | ASR 9 | 65 | 56 - 72 | 178 | 260 |
| May 2015 | ASR 8A | 48 | 43 - 52 | 178 | 260 |
| | ASR 9 | 56 | 46 - 71 | 178 | 260 |

The major dust sources in the reporting period include construction activities under the Contract as well as nearby traffic emissions.

In this reporting period, a total of seventeen (17) monitoring events were undertaken within the reporting period, in which no Action or Limit Level exceedance for 1-hour and 24-hour TSP for air quality was recorded during the reporting period.

2.2 NOISE MONITORING

The baseline noise monitoring undertaken by the Hong Kong – Zhuhai – Macao Bridge Hong Kong Projects (HKZMB) during the period of 18 October to 1 November 2011 has included the monitoring station NSR1 for this project. Thus, the baseline monitoring results and Action/ Limit Level presented in *HKZMB Baseline Monitoring Report* ⁽¹⁾ are adopted for this Project.

2.2.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual, impact noise monitoring should be conducted once per week during the construction phase of the Contract.

Noise monitoring was conducted at the alternative noise monitoring station, NSR1A (Pak Mong Village Pavilion) during the reporting period in accordance with the requirement of Updated EM&A Manual. *Figure 2.2* shows the location of the monitoring station. *Table 2.5* describes the details of the monitoring station.

Noise monitoring was performed using sound level meter at the designated monitoring station in the reporting quarter. The deployed sound level meter complies with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meter at a known sound pressure level. Brand and model of the equipment is given in *Table 2.6.*

⁽¹⁾ Agreement No. CE 35/2011 (EP) Baseline Environmental Monitoring for Hong Kong - Zhuhai - Macao Bridge Hong Kong Projects - Investigation. Baseline Environmental Monitoring Report (Version C). Submitted on 8 March 2012 and subsequently approved by EPD.

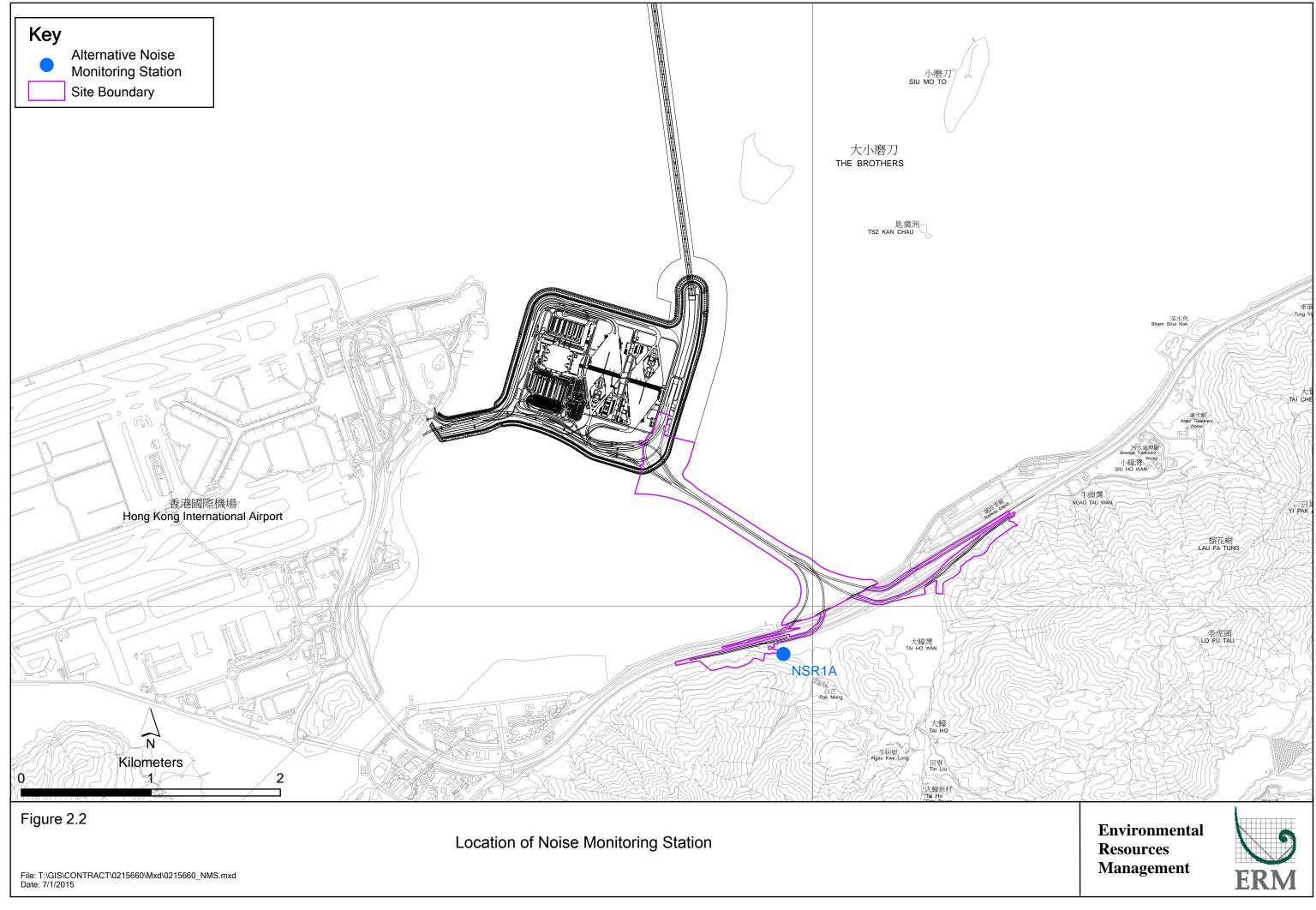


Table 2.5Location of Impact Noise Monitoring Station and Monitoring Dates in this
Reporting Period

| Monitoring Station | Monitoring Period | Location | Parameters & Frequency |
|-----------------------|----------------------|---------------------------------|---|
| NSR1A | March to May 2015 | Pak Mong Village Pavilion | 30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq} L₁₀ and L₉₀ would be recorded. At least once a week |
| Note: | | | |

(1) Noise Monitoring Station NSR1 at Pak Mong Village proposed in accordance with the Updated EM&A was relocated to NSR1A.

Table 2.6Noise Monitoring Equipment

| Equipment | Brand and Model | |
|------------------------------|-----------------|----------|
| Integrated Sound Level Meter | Rion NL-31 | <u> </u> |
| Acoustic Calibrator | Rion NC-73 | |

2.2.2 Action and Limit Levels

The Action and Limit levels of the noise monitoring are provided in *Appendix D*. The Event and Action plan is presented in *Appendix J*.

2.2.3 Monitoring Schedule for the Reporting Quarter

The schedules for noise monitoring in the reporting quarter are provided in *Appendix E*.

2.2.4 Results and Observations

The monitoring results for noise monitoring are summarized in *Table 2.7*. Monitoring results are presented graphically in *Appendix G* and detailed impact noise monitoring results are reported in the *Seventeenth* to *Nineteenth Monthly EM&A Report*.

Table 2.7Summary of Construction Noise Monitoring Results at NSR1A in the
Reporting Period

| Month | Average , dB(A), L _{eq} | Range, dB(A), L _{eq} | Limit Level, dB(A), L _{eq} | |
|------------|----------------------------------|-------------------------------|-------------------------------------|--|
| | (30mins) | (30mins) | (30mins) | |
| March 2015 | 60 | 57 - 61 | 75 | |
| April 2015 | 60 | 57 - 61 | 75 | |
| May 2015 | 60 | 57 – 61 | 75 | |

A total of seventeen (17) monitoring events were undertaken in the reporting period with no Action Level and Limit Level exceedance recorded at the monitoring station in the reporting period. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix J*.

Major noise sources during the noise monitoring included construction activities, nearby traffic noise and aircraft noise.

2.3 WATER QUALITY MONITORING

The baseline water quality monitoring undertaken by the Hong Kong – Zhuhai – Macao Bridge Hong Kong Projects (HKZMB) between 6 and 31 October 2011 has included all monitoring stations except SR4a for the Project. Thus, the baseline monitoring results except for station SR4a and Action/Limit Level presented in HKZMB Baseline Monitoring Report ⁽¹⁾ are adopted for this Project. Baseline water quality monitoring was conducted at station SR4a from 29 August to 24 September 2013.

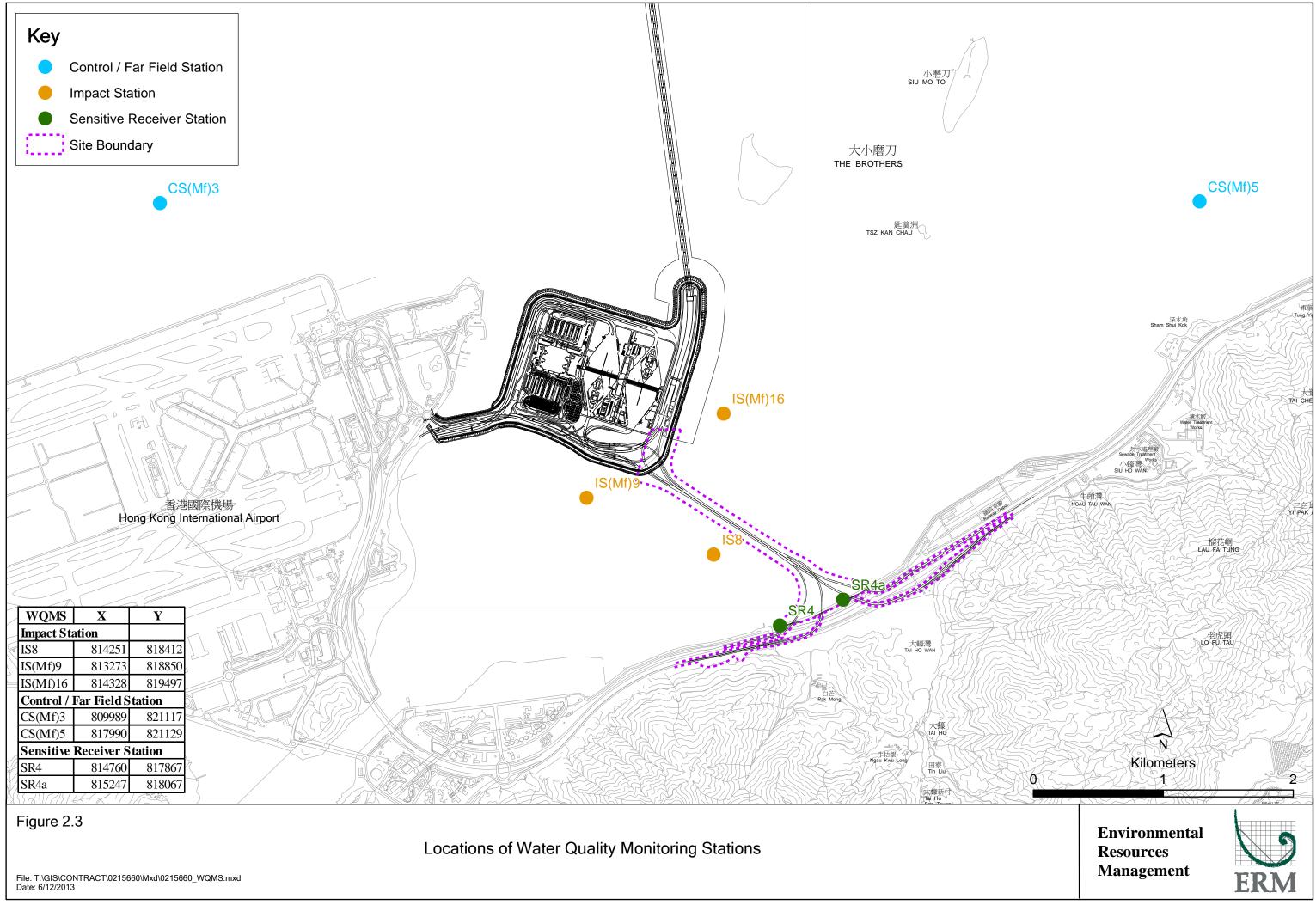
2.3.1 Monitoring Requirements and Equipment

Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. Impact water quality monitoring was undertaken three days per week during the construction period at seven water quality monitoring stations in accordance with the Updated EM&A Manual (*Figure 2.3; Table 2.8*).

Table 2.8Locations of Water Quality Monitoring Stations and the Corresponding
Monitoring Requirements

| Station ID | Туре | Coordinates | | *Parameters, unit | Depth | Frequency |
|---------------|---|-------------|----------|--|---|--|
| | | Easting | Northing | | | |
| IS(Mf)9 | Impact Station (Close to HKBCF construction site) | 813273 | 818850 | Temperature(°C) pH(pH unit) Turbidity (NTU) Water depth (m) Salinity (ppt) | 3 water depths: 1m below sea surface, mid-depth | Impact monitoring: 3 days per week, at mid-flood and mid-ebb |
| IS(Mf)16 | Impact Station (Close to HKBCF construction site) | 814328 | 819497 | DO (mg/L and % of saturation) SS (mg/L) | and 1m above sea bed. If the water depth is less than | tides during the construction period of the Contract. |
| IS8 | Impact Station(Close to HKBCF construction site) | 814251 | 818412 | | 3m, mid- depth sampling only. If water depth | |
| SR4 | Sensitive receiver (Tai Ho Inlet) | 814760 | 817867 | | less than 6m, mid- depth may | |
| SR4a | Sensitive receiver | 815247 | 818067 | | be omitted. | |
| CS(Mf)3 | Control Station | 809989 | 821117 | | | |
| CS(Mf)5 | Control Station | 817990 | 821129 | | | |

⁽¹⁾ Agreement No. CE 35/2011 (EP) Baseline Environmental Monitoring for Hong Kong - Zhuhai - Macao Bridge Hong Kong Projects - Investigation. Baseline Environmental Monitoring Report (Version C). Submitted on 8 March 2012 and subsequently approved by EPD.



| Station ID | Туре | Coordinates | *Parameters, unit | Depth | Frequency |
|---------------|------|------------------|-------------------|-------|-----------|
| | | Easting Northing | | | |

Notes:

In addition to the parameters presented monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or works underway nearby were also recorded.

Table 2.9 summarizes the equipment used in the impact water quality monitoring programme.

Table 2.9Water Quality Monitoring Equipment

| Equipment | Brand and Model |
|------------------------------------|--|
| DO, Temperature meter and Salinity | YSI Pro2030 |
| Turbidimeter | HACH Model 2100Q |
| pH meter | HANNA HI8314 |
| Positioning Equipment | Koden913MK2 with KBG-3 DGPS antenna |
| Water Depth Detector | Speedtech Instrument SM-5 |
| Water Sampler | Kemmerer 1520 (1520-C25) 2.2L with messenger |

2.3.2 Action & Limit Levels

The Action and Limit Levels of the water quality monitoring are provided in *Appendix D*.

2.3.3 Monitoring Schedule for the Reporting Quarter

The schedules for water quality monitoring in the reporting quarter are provided in *Appendix E*.

2.3.4 Results and Observations

Impact water quality monitoring was conducted at all designated monitoring stations in the reporting period. Monitoring results are presented graphically in *Appendix H* and detailed impact water quality monitoring results were reported in the *Seventeenth* to *Nineteenth Monthly EM&A Reports*.

In this reporting period, a total of thirty-nine (39) monitoring events were undertaken. One (1) Action level exceedance of depth-averaged SS during mid-ebb tide was recorded on 19 May 2015 at monitoring station SR4a. Actions were taken in accordance with the Event Action Plan as presented in *Appendix J*. The exceedance was considered not related to this Contract upon further investigation.

Apart from the observed exceedance, there were some results of depthaveraged turbidity and depth averaged- SS higher than the corresponding Action Levels at the impact stations and sensitive receivers, but the results were lower than 120% of the upstream control at the same tide of the same day (*Table 2.10*). As such, these observations were not regarded as exceedance. No action is thus required to be undertaken for these observations in accordance with the Event Action Plan (*Appendix L*).

Table 2.10Summary of WQM Results Breaching the Action Level without Exceedance

| Date | Tide | Parameter | Station |
|---------------|-----------------------|-----------|---------------------------------|
| 24 March 2015 | Mid-ebb and mid-flood | SS | IS(Mf)16, IS(Mf)9, IS8, SR4 and |
| | | | SR4a |
| 28 March 2015 | Mid-ebb and mid-flood | SS | IS(Mf)16, IS(Mf)9, IS8, SR4 and |
| | | | SR4a |
| 31 March 2015 | Mid-ebb and mid-flood | SS | IS(Mf)16, IS(Mf)9, IS8, SR4 and |
| | | | SR4a |
| 2 April 2015 | Mid-ebb | SS | IS(Mf)16, IS(Mf)9, IS8, SR4 and |
| - | | | SR4a |
| 2 April 2015 | Mid-flood | SS | IS(Mf)16 and IS8 |
| 7 April 2015 | Mid-ebb | SS | IS(Mf)9, SR4 and SR4a |
| 7 April 2015 | Mid-flood | SS | SR4 |
| 28 April 2015 | Mid-ebb | SS | IS8 |
| 14 May 2015 | Mid-flood | Turbidity | IS8 and SR4 |
| 14 May 2015 | Mid-ebb and mid-flood | SS | IS(Mf)16, IS(Mf)9, IS8, SR4 and |
| | | | SR4a |
| 16 May 2015 | Mid-ebb and mid-flood | SS | IS(Mf)16, IS(Mf)9, IS8, SR4 and |
| - | | | SR4a |
| 19 May 2015 | Mid-ebb and mid-flood | SS | IS(Mf)16, IS(Mf)9, IS8, SR4 and |
| - | | | SR4a |
| 23 May 2015 | Mid-ebb | SS | IS(Mf)16, IS(Mf)9, IS8 and SR4 |
| 23 May 2015 | Mid-flood | SS | IS8 and SR4 |

2.4 DOLPHIN MONITORING

2.4.1 Monitoring Requirements

Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins. In order to fulfil the EM&A requirements and make good use of available resources, the on-going impact line transect dolphin monitoring data collected by HyD's *Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge. Hong Kong Link Road - Section between Scenic Hill and Hong Kong Boundary Crossing Facilities* on the monthly basis is adopted to avoid duplicates of survey effort.

2.4.2 Monitoring Equipment

Table 2.11 summarises the equipment used for the impact dolphin monitoring.

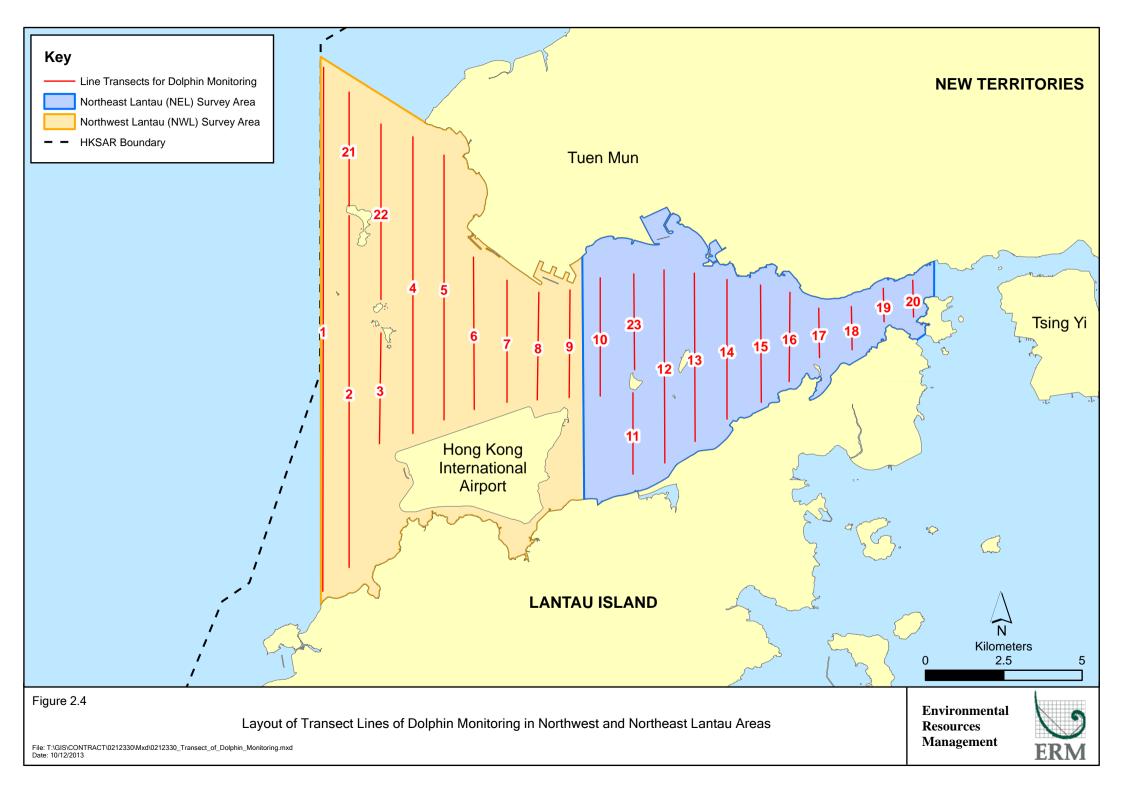
| Equipment | Model |
|---------------------------------|--|
| Global Positioning System (GPS) | Garmin 18X-PC |
| | Geo One Phottix |
| Camera | Nikon D90 300m 2.8D fixed focus |
| | Nikon D90 20-300m zoom lens |
| Laser Binoculars | Infinitor LRF 1000 |
| Marine Binocular | Bushell 7 x 50 marine binocular with compass |
| Vessel for Monitoring | and reticules |
| | 65 foot single engine motor vessel with |
| | viewing platform 4.5m above water level |

2.4.3 Monitoring Parameter, Frequencies & Duration

Dolphin monitoring should cover all transect lines in Northeast Lantau (NEL) and the Northwest Lantau (NWL) survey areas twice per month throughout the entire construction period. The monitoring data should be compatible with, and should be made available for, long-term studies of small cetacean ecology in Hong Kong. In order to provide a suitable long-term dataset for comparison, identical methodology and line transects employed in baseline dolphin monitoring was followed in the impact dolphin monitoring.

2.4.4 Monitoring Location

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in *Figure 2.4*. The co-ordinates of all transect lines are shown in *Table 2.12* below.



| | Line No. | Easting | Northing | | Line No. | Easting | Northing |
|----|-------------|---------|----------|----|-------------|---------|----------|
| 1 | Start Point | 804671 | 814577 | 13 | Start Point | 816506 | 819480 |
| 1 | End Point | 804671 | 831404 | 13 | End Point | 816506 | 824859 |
| 2 | Start Point | 805475 | 815457 | 14 | Start Point | 817537 | 820220 |
| 2 | End Point | 805477 | 826654 | 14 | End Point | 817537 | 824613 |
| 3 | Start Point | 806464 | 819435 | 15 | Start Point | 818568 | 820735 |
| 3 | End Point | 806464 | 822911 | 15 | End Point | 818568 | 824433 |
| 4 | Start Point | 807518 | 819771 | 16 | Start Point | 819532 | 821420 |
| 4 | End Point | 807518 | 829230 | 16 | End Point | 819532 | 824209 |
| 5 | Start Point | 808504 | 820220 | 17 | Start Point | 820451 | 822125 |
| 5 | End Point | 808504 | 828602 | 17 | End Point | 820451 | 823671 |
| 6 | Start Point | 809490 | 820466 | 18 | Start Point | 821504 | 822371 |
| 6 | End Point | 809490 | 825352 | 18 | End Point | 821504 | 823761 |
| 7 | Start Point | 810499 | 820690 | 19 | Start Point | 822513 | 823268 |
| 7 | End Point | 810499 | 824613 | 19 | End Point | 822513 | 824321 |
| 8 | Start Point | 811508 | 820847 | 20 | Start Point | 823477 | 823402 |
| 8 | End Point | 811508 | 824254 | 20 | End Point | 823477 | 824613 |
| 9 | Start Point | 812516 | 820892 | 21 | Start Point | 805476 | 827081 |
| 9 | End Point | 812516 | 824254 | 21 | End Point | 805476 | 830562 |
| 10 | Start Point | 813525 | 820872 | 22 | Start Point | 806464 | 824033 |
| 10 | End Point | 813525 | 824657 | 22 | End Point | 806464 | 829598 |
| 11 | Start Point | 814556 | 818449 | 23 | Start Point | 814559 | 821739 |
| 11 | End Point | 814556 | 820992 | 23 | End Point | 814559 | 824768 |
| 12 | Start Point | 815542 | 818807 | | | | |
| 12 | End Point | 815542 | 824882 | | | | |

Table 2.12 Impact Dolphin Monitoring Line Transect Co-ordinates

2.4.5 Action & Limit Levels

The action and limit levels of dolphin impact monitoring are shown in *Appendix D*. The Event and Action plan is presented in *Appendix J*.

2.4.6 Monitoring Schedule for the Reporting Period

The dolphin monitoring schedules for the reporting period are shown in *Appendix E*.

2.4.7 Results & Observations

A total of 899.81 km of survey effort was collected, with 97.7% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility). Among the two areas,

344.55 km and 555.26 km of survey effort were conducted in NEL and NWL survey areas respectively. The total survey effort conducted on primary lines was 655.32 km, while the effort on secondary lines was 244.49 km. Survey effort conducted on both primary and secondary lines were considered as on-effort survey data. The survey efforts are summarized in *Appendix I*.

During the six sets of monitoring surveys in March to May 2015, a total of seven groups of twenty-five (25) Chinese White Dolphins were sighted. Four (4) of the seven (7) dolphin sightings were made during on-effort search. Two (2) of the four (4) on-effort sightings were made on primary lines, while the other two were made on secondary lines. No sighting was made in the proximity of the Project's alignment. In this quarterly period, all dolphin groups were sighted in NWL, while none of them were sighted in NEL. Summary table of the dolphin sightings is shown in *Appendix I*.

Encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data from the primary transect lines under favourable conditions (Beaufort 3 or below) in the reporting period with the results presented in *Tables 2.13* and 2.14.

| Survey | Survey period | Encounter rate (STG) | Encounter rate (ANI) | |
|--------|--|-----------------------|---------------------------|--|
| Area | | (no. of on-effort | (no. of dolphins from all | |
| | | dolphin sightings per | on-effort sightings per | |
| | | 100 km of survey | 100 km of survey effort) | |
| | | effort) | | |
| | | Primary Lines Only | Primary Lines Only | |
| | Set 1: 4 th & 11 th Mar 2015 | 0.0 | 0.0 | |
| | Set 2: 17th & 26th Mar 2015 | 0.0 | 0.0 | |
| NEL | Set 3: 8th & 10th Apr 2015 | 0.0 | 0.0 | |
| INEL | Set 4: 17th & 22nd Apr 2015 | 0.0 | 0.0 | |
| | Set 5: 4th & 8th May 2015 | 0.0 | 0.0 | |
| | Set 6: 14th & 18th May 2015 | 0.0 | 0.0 | |
| NWL | Set 1: 4 th & 11 th Mar 2015 | 1.42 | 9.93 | |
| | Set 2: 17th & 26th Mar 2015 | 0.00 | 0.00 | |
| | Set 3: 8th & 10th Apr 2015 | 1.40 | 4.20 | |
| | Set 4: 17th & 22nd Apr 2015 | 0.00 | 0.00 | |
| | Set 5: 4th & 8th May 2015 | 0.00 | 0.00 | |
| | Set 6: 14th & 18th May 2015 | 0.00 | 0.00 | |

Table 2.13Individual Survey Event Encounter Rates

Note: Dolphin Encounter Rates are deduced from the six sets of surveys (two surveys in each set) in the reporting period in Northeast (NEL) and Northwest Lantau (NWL)

| Survey Area | Encounter (no. of on-effort of per 100 km of | lolphin sightings | Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort) | | |
|------------------|---|-------------------|---|---------------------------------|--|
| | March - May September - 2015 November 2011 | | March - May 2015 | September - November 2011 | |
| Northeast Lantau | 0.00 | 6.00 ± 5.05 | 0.00 | 22.19 ± 26.81 | |
| Northwest Lantau | 0.47 ± 0.73 | 9.85 ± 5.85 | 2.36 ± 4.07 | 44.66 ± 29.85 | |

Note: encounter rates deduced from the baseline monitoring period (September – November 2011) have been recalculated based only on survey effort and on-effort sighting data made along the primary transect lines under favourable conditions

Group size of Chinese White Dolphins ranged from one (1) to three (3) individuals per group in North Lantau region during March 2015 to May 2015. The average dolphin group sizes from these three months were compared with the ones deduced from the baseline period in September to November 2011, as shown in *Table 2.15*.

Table 2.15Comparison of Quarterly Average Encounter Rates

| | Average Dolphin Group Size | | | | |
|------------------|----------------------------|---------------------------|--|--|--|
| | March - May 2015 | September - November 2011 | | | |
| Overall | 3.57 ± 2.82 (n = 7) | 3.72 ± 3.13 (n = 66) | | | |
| Northeast Lantau | 0.00 | 3.18 ± 2.16 (n = 17) | | | |
| Northwest Lantau | 3.57 ± 2.82 (n = 7) | 3.92 ± 3.40 (n = 49) | | | |

Whilst one (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between March and May 2015. During this quarter of dolphin monitoring, no unacceptable impact from the activities of this Contract on Chinese White Dolphins was noticeable from the general observations.

Although the dolphins infrequently occurred along the alignment of TMCLKL Southern Connection Viaduct in the past and during the baseline monitoring period, it is apparent that dolphin usage has been significantly reduced in NEL, and many individuals have shifted away from the important habitat around the Brothers Islands.

It is critical to monitor the dolphin usage in North Lantau region in the upcoming quarters, to determine whether the dolphins are continuously affected by the various construction activities in relation to the HZMB-related works, and whether suitable mitigation measure can be applied to revert the situation.

2.4.8 Marine Mammal Exclusion Zone Monitoring

Daily marine mammal exclusion zone monitoring was undertaken during the period of marine works under this Contract. Passive Acoustic Monitoring (PAM) was also implemented for the detection of marine mammal when marine works were carried out outside the daylight hours under this Contract. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was recorded in the monitoring period during the exclusion zone monitoring.

2.5 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. Thirteen (13) site inspections were carried out in the reporting quarter on 4, 11, 19 and 26 March 2015; 2, 9, 15, 22 and 30 April 2015; 8, 13, 20 and 28 May 2015.

Key observations during the site inspections in this reporting period are summarized in *Table 2.16*.

| Table 2.16 | Specific Observations Identified during the Weekly Site Inspection in this |
|------------|--|
| | Reporting Period |

| Inspection Date | Location & Environmental Observations | Recommendations/ Remarks |
|-----------------|---|--|
| 4 March 2015 | Pier E12 The updated dumping permit was not displayed. The checklist for wet sep was not displayed. The label of sediment at barge Kin Yip was not well displayed. Pier B1 An air compressor was not placed on decoupling pad. | Pier E12 Dumping permit, checklist for wet sep and sediment label should be well displayed. Pier B1 The air compressor should be placed on decoupling pad. |
| 11 March 2015 | Area 1 A slope close to drainage was partially unpaved. Pier C14B Refuse was found placed next to drainage. Site Access 9B An old EP was displayed. | Area 1 The unpaved slope should be covered by tarpaulin sheet Pier C14B Refuse or waste container should be placed away from drainage. Site Access 9B Only the most updated permit should be displayed. |
| 19 March 2015 | Seafront Refuse was found disposed improperly. Chemical containers were placed without drip tray. Pier ACD1 Some chemical containers were not placed in drip tray. | Seafront Refuse should be cleaned up regularly. Chemical containers should be placed in drip tray. Pier ACD1 Chemical containers should be placed in drip tray. |

| Inspection Date | Location & Environmental Observations | Recommendations/ Remarks |
|-----------------|---|---|
| 26 March 2015 | Pak Mong | Pak Mong |
| | Soil stockpile was not covered. | • Soil stockpile should be covered by tarpaulin |
| | Barge Gammon 38 (next to Pier E7) | sheet or watered. |
| | • An air compressor was not placed on | Barge Gammon 38 (next to Pier E7) |
| | acoustic decoupling pad. | • Air compressor on marine platform should |
| | | be placed on acoustic decoupling pad. |
| 2 April 2015 | Dockyard near Area 23 | Dockyard near Area 23 |
| - | Drip trays were not plugged. | • Drip trays should be plugged. |
| | Area 1 | Area 1 |
| | • Soil stockpile was not covered. | • Soil stockpile should be covered by tarpaulin |
| | - | sheet or watered to avoid dust emission. |
| 9 April 2015 | Pier E13AB | Pier E13AB |
| - | • The updated checklist for wetsep was not | • The updated checklist should be displayed at |
| | displayed. | the wetsep. |
| | Pier E9 | Pier E9 |
| | A generator was not placed on acoustic | • Operating generators on marine platform |
| | decoupling pad. | should be placed on acoustic decoupling pad. |
| 15 April 2015 | Slope B/F9 | Slope B/F9 |
| - | • The exposed area was partially dry. | Watering was applied immediately. |
| | Pier B14 | Pier B14 |
| | • The updated EP was not displayed. | • The updated EP should be displayed. |
| | Pier D12 | Pier D12 |
| | • The updated EP was not displayed. | • The updated EP should be displayed. |
| | • A drip tray for generator was not plugged. | • The drip tray should be plugged. |
| 22 April 2015 | Seafront | Seafront |
| - | • Some chemical containers were not placed in | • Chemical containers should be placed in drip |
| | drip trip. | trip. |
| | Pier D3 | Pier D3 |
| | • Gutter was not properly installed. | • Gutter should be properly installed. |
| | Pier E11 | Pier E11 |
| | A generator was not placed on acoustic | • Generator on marine platform should be |
| | decoupling pad. | placed on acoustic decoupling pad. |
| 30 April 2015 | Pier ACD1 | Pier ACD1 |
| - | • A drip tray for generator was placed without | • Acoustic decoupling pad should be provided |
| | acoustic decoupling pad and containing | and stagnant water should be removed. |
| | stagnant water. | • A drip tray for generator should be plugged. |
| | • A drip tray for generator was not plugged. | |
| 8 May 2015 | Area 1 | Area 1 |
| | • Some chemical containers were not placed in | • Chemical containers should be placed in drip |
| | drip tray. | tray. |
| | Soil stockpile near drainage was not well | • Soil stockpile should be well covered. |
| | covered. | Site Access 4A |
| | Site Access 4A | • Chemical waste storage should be secured as |
| | Chemical waste storage was not secured | appropriate. |
| | properly. | Pier D14B |
| | Pier D14B | • Refuse in drainage should be cleaned up. |
| | Refuse was accumulated in drainage. | Pier D10 |
| | Pier D10 | • Checklist for wet sep should be displayed. |
| | Checklist for wet sep was not displayed. | |
| 13 May 2015 | Seafront | Seafront |
| | • Stagnant water was accumulated in drainage. | Stagnant water in drainage and drip tray |
| | Stagnant water was accumulated in a drip | should be regularly cleaned up regularly. |
| | tray for generator. | Gammon 39 (Pier E1) |
| | Gammon 39 (Pier E1) | • Excessive soil on barge should be cleaned up |
| | • Excessive soil was accumulated on barge. | regularly. |

| Inspection Date | Location & Environmental Observations | Recommendations/ Remarks | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|
| 20 May 2015 | Slope B/C8 | Slope B/C8 & B/C9 | | | | | | |
| | • Tarpaulin sheet for rock drilling was not well | • Tarpaulin sheet for rock drilling and cement | | | | | | |
| | covered. | loading station should be well covered. | | | | | | |
| | Slope B/C9 | | | | | | | |
| | Tarpaulin sheet for cement loading station | | | | | | | |
| | was not well covered. | | | | | | | |
| 28 May 2015 | Pier E6 | Pier E6 | | | | | | |
| | • Excessive soil was accumulated in gutter and | • Gutter should be cleaned up regularly and | | | | | | |
| | the gutter was not properly installed | properly installed. | | | | | | |

The Contractor has rectified all of the observations identified during environmental site inspections in the reporting period.

2.6 WASTE MANAGEMENT STATUS

The Contractor has submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

Wastes generated during this reporting period include mainly construction wastes (inert and non-inert), imported fill, recyclable materials and marine sediments (Categories L & M). Reference has been made to the waste flow table prepared by the Contractor (*Appendix K*). The quantities of different types of wastes are summarized in *Table 2.17*.

Table 2.17Quantities of Different Waste Generated in the Reporting Period

| Month/ | Inert | Imported | Inert | Non-inert | Recyclable | Chemical | Marine Sec | diment (m ³) |
|------------|--|-----------|-------------------|----------------|---------------|----------|------------|--------------------------|
| Year | Construction | Fill (m³) | Construction | Construction | Materials (c) | Wastes | Category | Category |
| | Waste ^(a) (m ³) | | Waste Re- | Waste (b) (kg) | (kg) | (kg) | L | Μ |
| | | | used | | | | | |
| | | | (m ³) | | | | | |
| March 2015 | 9,600 | 77 | 473 | 120,940 | 203 | 0 | 618 | 222 |
| April 2015 | 7,694 | 32 | 2,261 | 133,630 | 105 | 0 | 0 | 0 |
| May 2015 | 8,091 | 0 | 653 | 107,920 | 42 | 0 | 550 | 0 |
| Total | 25,385 | 109 | 3,387 | 362,490 | 350 | 0 | 1,168 | 222 |
| Notes: | | | | | | | | |

(a) Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.

(b) Non-inert construction wastes include general refuse disposed at landfill.

(c) Recyclable materials include metals, paper, cardboard, plastics, timber and others.

The Contractor was advised to properly maintain on site C&D materials and waste collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse/ recycle of C&D materials and wastes. The Contractor was also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat properly and store temporarily in designated chemical waste storage area on site in accordance with the *Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes*.

2.7 Environmental Licenses and Permits

The status of environmental licensing and permit is summarized in *Table 2.18* below.

| Tuen Mun- Chek Lap Kok Link Viaducts A, B, C, D & E Area1 adjacent to Cheung Ting Road, Siu Ho Wan |
|---|
| Area1 adjacent to Cheung Ting Road, Siu Ho Wan |
| Ho Wan |
| Area 2 a dia contrto Choung Tung Pood |
| Area 2 adjacent to Cheung Tung Road, Pak Mong Village |
| WA5 adjacent to Cheung Tung Road, Yan O |
| NA |
| For Area 23 |
| For Plant mobilization using tractor with trailer |
| Pre-casted pile cap shell installation at E10-E13 |
| Pier A8A9 Safety Fence Erection |
| TTA Case 009 Ch.2.1E-4.2E |
| B8 Pier Head Segment Erection and Formwork Installation |
| For Load unload at NLH near Viaduct D |
| B9-B16 Pier Head Segments Erection |
| |

Table 2.18Summary of Environmental Licensing and Permit Status

ENVIRONMENTAL RESOURCES MANAGEMENT 0215660_6TH QTR EM&A_20151002.DOC

| License/ Permit | License or Permit No. | Date of Issue | Date of Expiry | License/ Permit Holder | Remarks |
|--|-----------------------|---------------|----------------|------------------------|--|
| Construction Noise Permit for night works and works in general holidays | GW-RS0470-14 | 29-Apr-15 | 28-Oct-15 | GCL | For Broad Permit |
| Construction Noise Permit for night works and works in general holidays | GW-RS0489-15 | 08-May-15 | 07-Aug-15 | GCL | B8 Pier Head Temp Works Lifting |
| Construction Noise Permit for night works and works in general holidays | GW-RS0491-15 | 08-May-15 | 30-Jun-15 | GCL | TTA Case 009 Ch.2.1E-4.2E |
| Construction Noise Permit for night works and works in general holidays | GW-RS1032-14 | 27-Mar-15 | 27-Sep-15 | GCL | For Load unload at NLH near Viaduct D |
| Construction Noise Permit for night works and works in general holidays | GW-RS1225-14 | 31-Oct-14 | 02-May-15 | GCL | For Broad Permit |
| Construction Noise Permit for night works and works in general holidays | GW-RS1406-15 | 30-Mar-15 | 31-May-15 | GCL | B9-B16 Pier Head Segments Erection |
| Construction Noise Permit for night works and works in general holidays | GW-RW0093-15 | 26-Feb-15 | 26-Aug-15 | GCL | General works at WA5 |
| Construction Noise Permit | Nil | N/A | N/A | GCL | For Piling Works |
| Construction Waste Disposal Account | 7017735 | 10-Jul-13 | NA | GCL | NA |
| Construction Waste Disposal Account | 7019470 | 03-Mar-14 | NA | GCL | Vessel CHIT Account |
| Effluent Discharge License | WT00019017-2014 | 13-May-14 | 31-May-19 | GCL | Marine Portion |
| Effluent Discharge License | WT00019018-2014 | 13-May-14 | 31-May-19 | GCL | Land Portion |
| Marine Dumping Permit | EP/MD/15-248 | 27 Mar 2015 | 26 Apr 2015 | GCL | For dumping Type I (Dedicated Site) and Type II sediment |
| Marine Dumping Permit | EP/MD/15-203 | 28 Jan 2015 | 27 Jul 2015 | GCL | For dumping Type I sediment |
| Marine Dumping Permit | EP/MD/16-002 | 17 Apr 2015 | 26 May 2015 | GCL | For dumping Type I (Dedicated Site) and Type II sediment |
| Marine Dumping Permit | EP/MD/16-020 | 22 May 2015 | 26 Jun 2015 | GCL | For dumping Type I (Dedicated Site) and Type II sediment |

| License/ Permit | License or Permit No. | Date of Issue | Date of Expiry | License/ Permit Holder | Remarks |
|-----------------------|-----------------------|---------------|----------------|------------------------|-----------------------------|
| Marine Dumping Permit | EP/MD/15-257 | 2 Apr 2015 | 7 Oct 2015 | GCL | For dumping Type I sediment |

2.8 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

In response to the site audit findings, the Contractor has carried out corrective actions.

A summary of the Environmental Mitigation and Enhancement Measure Implementation Schedules (EMIS) is presented in *Appendix C*. The necessary mitigation measures were implemented properly for this Contract.

2.9 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

Results for 1-hour TSP, 24-hour TSP and construction noise complied with the Action/ Limit levels in the reporting period.

One (1) Action level exceedance of depth-averaged SS during mid-ebb tide was recorded on 19 May 2015 at monitoring station SR4a. Actions were taken in accordance with the Event Action Plan as presented in *Appendix J*. The exceedance was considered not related to this Contract upon further investigation.

The construction impact on depth-averaged SS was assessed by comparing the quarterly mean values of depth-averaged SS with the relevant ambient mean values. Except for IS(Mf)9 during mid-flood tide, results showed that the quarterly means of depth-averaged SS at all sampling stations during both mid-ebb and mid-flood tides were higher than the corresponding ambient means (Table 2.19). One-way ANOVA was conducted to examine whether there is significant difference of depth-averaged SS between ambient mean and quarterly mean. Apart from IS(Mf)16 ($F_{1,68}$ = 2.5, p = 0.12) during midebb tide, CS(Mf)3 ($F_{1,71}$ = 0.9, p = 0.35), CS(Mf)5 ($F_{1,73}$ = 2.6, p = 0.11) and IS8 ($F_{1,61} = 0.4$, p = 0.54) during mid-flood tide, statistically significant (p < 0.05) difference was detected for depth-averaged SS between ambient mean and quarterly mean at the other monitoring stations. The observed difference is due to the highly variable SS results at the corresponding upstream control stations in the reporting period, which is considered as natural fluctuation in the western waters of Hong Kong. The ET will monitor the trend of depthaveraged SS in the upcoming quarters to determine whether there is any change in water quality associated with this Project and further mitigation measures will be recommended if deemed necessary.

Table 2.19Comparison between Quarterly Mean and Ambient Mean Values of Depth-
averaged Suspended Solids

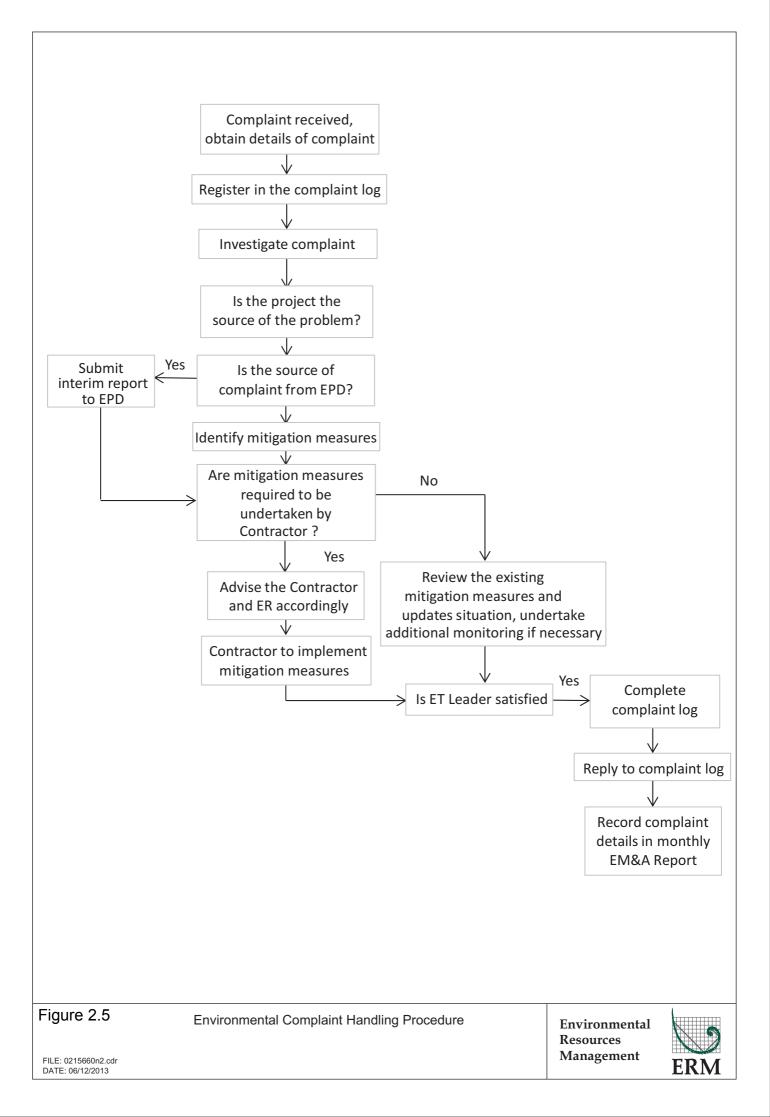
| Station | Baselir | ne Mean | Ambien | t Mean ^(a) | | Mean (March May 2015) |
|-------------|-----------------|-----------------|----------------|-----------------------|---------|--------------------------|
| | Mid-ebb | Mid-flood | Mid-ebb | Mid-flood | Mid-ebb | Mid-flood |
| CS(Mf)3 | 9.2 | 12.8 | 12.0 | 16.6 | 19.9 | 19.2 |
| CS(Mf)5 | 9.2 | 11.5 | 11.9 | 14.9 | 19.0 | 18.5 |
| SR4 | 10.3 | 12.3 | 13.4 | 16.0 | 18.9 | 18.7 |
| SR4a | 9.1 | 9.8 | 11.9 | 12.7 | 18.4 | 18.0 |
| IS8 | 11.3 | 13.5 | 14.6 | 17.6 | 19.2 | 19.0 |
| IS(Mf)9 | 10.9 | 14.3 | 14.2 | 18.5 | 19.1 | 18.5 |
| IS(Mf)16 | 11.4 | 10.3 | 14.8 | 13.4 | 18.9 | 18.5 |
| Notes: | | | | | | |
| (a) Ambient | mean value is d | efined as a 30% | increase of th | e baseline mea | n value | |

One (1) Limit Level exceedance was recorded for impact dolphin monitoring in this reporting quarter. Following the review of the monitoring data and marine works details as per the procedure stipulated in the Event and Action Plan of the Updated EM&A Manual, there is no evidence showing that the sources of impact directly related to the construction works under this Contract that may have affected the dolphin usage in the North Lantau region. Investigation findings were detailed in *Appendix L*.

2.10 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.5.

There was no complaint, notification of summons or successful prosecution recorded in the reporting period. Statistics on complaint, notification of summons of successful prosecution are summarized in *Appendix L*.



3.1 CONSTRUCTION ACTIVITIES FOR THE COMING QUARTER

As informed by the Contractor, the major works for the Contract in the coming quarter are summarized below:

June 2015

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pile cap installation;
- Pier construction;
- Launching gantry assembly;
- Marine piling and
- Installation of pier head segment

Land-based Works

- Construction and installation of pile caps;
- Pier construction;
- Pile cap installation;
- Re-alignment of Cheung Tung Road;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Relocation of MTRC fence; and
- Slope work of Slopes 9SE-B/C9 and 9SE-B/F85

<u>July 2015</u>

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pile cap installation;
- Pier construction;
- Launching gantry assembly;
- Marine piling; and,
- Installation of pier head segment

Land-based Works

- Predrilling at Viaduct F;
- Construction and installation of pile caps;
- Pier construction;
- Pile cap installation;

3

- Re-alignment of Cheung Tung Road;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Relocation of MTRC fence; and,
- Slope work of Viaducts A & B

<u>August 2015</u>

Marine Works

- Construction and installation of pile caps;
- Uninstallation of marine piling platform;
- Pile cap installation;
- Pier construction;
- Launching gantry assembly;
- Marine piling and
- Installation of pier head segment

Land-based Works

- Predrilling at Viaduct F;
- Construction and installation of pile caps;
- Pier construction;
- Pile cap installation;
- Re-alignment of Cheung Tung Road;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Relocation of MTRC fence; and
- Slope work of Viaducts A & B.

3.2 KEY ISSUES FOR THE COMING QUARTER

Potential environmental impacts arising from the above upcoming construction activities are mainly associated with air quality, noise, marine water quality, marine ecology and waste management issues.

3.3 MONITORING SCHEDULE FOR THE COMING QUARTER

Impact monitoring for air quality, noise, marine water quality and dolphin monitoring are scheduled to continue for the next reporting period.

The monitoring programme has been reviewed and was considered as adequate to cater for the nature of works in progress.

4.1 CONCLUSIONS

This Sixth Quarterly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 March to 31 May 2015, in accordance with the Updated EM&A Manual and the requirements of the *Environmental Permit (EP-354/2009/D)*.

Neither Action Level nor Limit Level exceedances were observed for air quality and noise monitoring in this reporting period.

One (1) exceedance of Action Level for depth-averaged SS during mid-ebb tide was recorded for water quality monitoring on 19 May 2015.

A total of seven groups of twenty-five (25) Chinese White Dolphins were sighted during the six sets of survey from March to May 2015. Whilst one (1) Limit Level exceedance was recorded for the quarterly dolphin monitoring data between March to May 2015, no unacceptable impact from the activities of this Contract on Chinese White Dolphins was noticeable from the general observations. It is critical to monitor the dolphin usage in North Lantau region in the upcoming quarters, to determine whether the dolphins are continuously affected by the various construction activities in relation to the HZMB-related works, and whether suitable mitigation measure can be applied to revert the situation.

Environmental site inspection was carried out thirteen (13) times in the reporting period. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

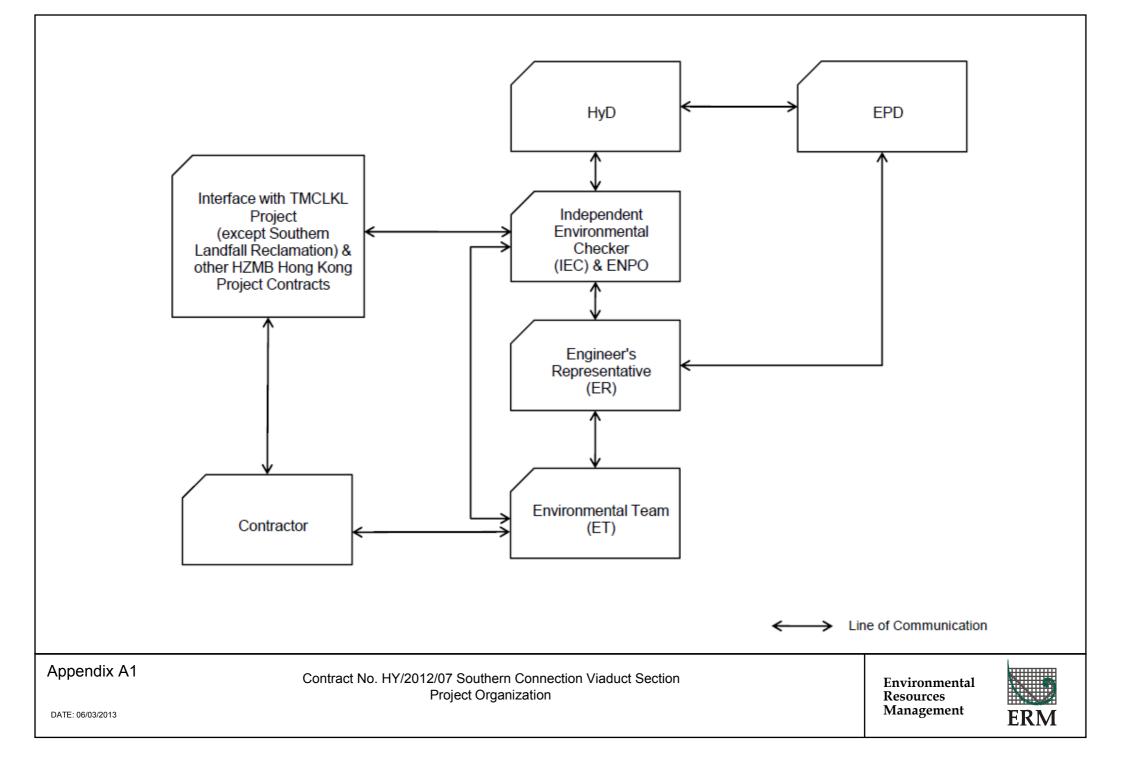
No environmental complaint, summons/ prosecution were received during the reporting period.

The monitoring programme has been reviewed and was considered as adequate to cater for the nature of works in progress. Change to the monitoring programme was thus not recommended at this stage. The monitoring programme will be evaluated as appropriate in the next reporting period. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

4

Appendix A

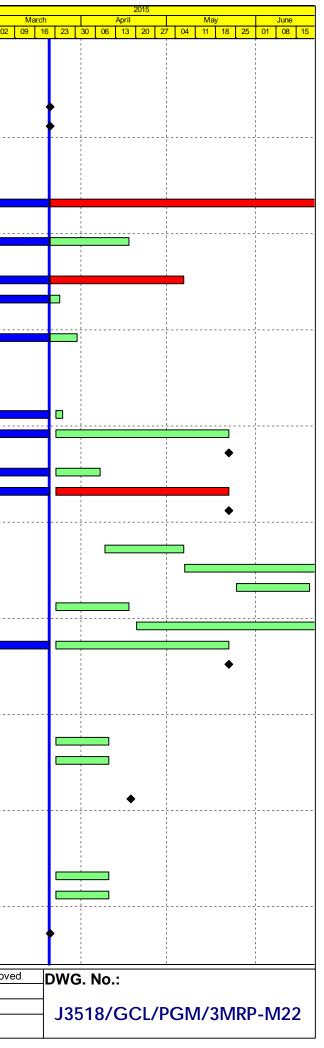
Project Organization for Environmental Works



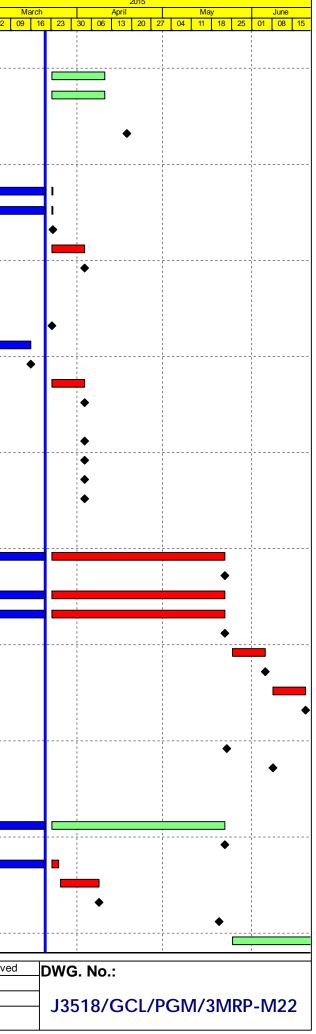
Appendix B

Construction Programme for the Reporting Quarter

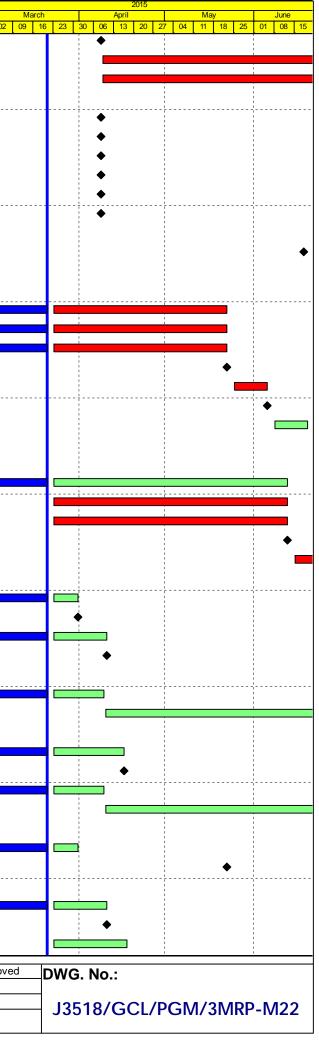
| ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|--|---|-------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------------|-------------|------------|------------------------|
| IY/2012/07 - | · TM-CLK Link-SC [DWP rE] - Status Update 21-03-2015 | | | | | | | | | | |
| Contract Key I | | | | | | | | | | | |
| the second s | Dates / Access Period | | | | | | | | | | |
| POS02 | Portion A (Commencement of Works+499 days) | 0 | 21-Mar-15* | 0% | 0 | | 01-Nov-14 | | -139 | 0 | 0% |
| POS03 | Portion B (Commencement of Works+619 days) | 0 | 21-Mar-15* | 0% | 0 | | 03-Mar-15 | | -18 | 307 | 0% |
| General Subm | issions | | | | | | | | | | |
| General Requ | irements | | | | | | | | | | |
| | Vorks Design | | | | | | | | | | |
| PR00130 | Unloading Jetty at HKBCF - Working Platform design and approval | 90 | 02-Jun-14 A | 10% | 81 | 02-Jul-15 | 12-Nov-14 | 17-Feb-15 | -105 | 15 | 10% |
| Land Works | | | 1 | | | | <u> </u> | | | | |
| PR00160 | Propose/submit a performance review for piled fnds in accordance w/ ETWB TCW No. 4/20 | 101 | 26-May-14 A | 80.2% | 20 | 17-Apr-15 | 11-Jan-16 | 02-Feb-16 | 239 | 353 | 80% |
| Land GI Worl | (\$ | | | | | | | | | | |
| PR02204 | SQR Sampling & Testing and Approval | 110 | 14-Aug-14 A | 68.18% | 35 | 06-May-15 | 27-Nov-14 | 09-Jan-15 | -92 | 2 | 68% |
| PR03110 | Trial Pits along Cheung Tung Road | 20 | 21-Oct-13 A | 85% | 3 | 24-Mar-15 | 27-Apr-18 | 30-Apr-18 | 917 | 5 | 85% |
| Additional La | | | | | | | | | | | |
| PR03200 | PBH25, 29, 30, 31 (Piers D9, C14, C16, C17) | 33 | 11-Jan-14 A | 75.76% | 8 | 30-Mar-15 | 21-Apr-18 | 30-Apr-18 | 912 | 912 | 75% |
| Design Submi | | | | 10.1070 | Ŭ | | 217,0110 | 007.0110 | 012 | 012 | 10/0 |
| | gn (v18.8 18-08-14) | | | | | | | | | | |
| Ground Inve | | | | | | | | | | | |
| ARDD0009 | Consultation with GEO | 20 | 13-Aug-13 A | 85% | 3 | 25-Mar-15 | 14-Apr-15 | 16-Apr-15 | 16 | 42 | 85% |
| ARDD0010 | IC/SO Approval of Ground Investigation Interpretative Report - AP03.00 | 75 | 13-Aug-13 A | 40% | 45 | 22-May-15 | 30-Jan-17 | 31-Mar-17 | 485 | 0 | 50% |
| ARDD0010-1 | IC/SO Approval of Ground Investigation Interpretative Report - AP03.00 | 0 | 13-Aug-13 A | 0% | 43 0 | 22-May-15 | 30-3aii-17 | 31-Mar-17 | 485 | 0 | 0% |
| ARDD0010-1 ARDD0013-2 | | 60 | 16-Jul-13 A | 80% | 12 | 07-Apr-15 | 13-Apr-18 | 30-Apr-18 | 799 | 799 | 90% |
| | Additional GI Fieldwork, Lab Testing and Permitting - Other areas | | | | | · · | · · | • | | | |
| ARDD0017-2 | IC/SO Approval of Additional GI Interpretative Report - AP03.00 | 75 | 29-Jan-14 A | 40% | 45 | 22-May-15 | 13-Feb-15 | 16-Apr-15 | -26 | 0 | 30% |
| ARDD0017-4 | IC/SO Approval of Additional GI Interpretative Report - AP03.00 | 0 | | 0% | 0 | 22-May-15 | | 16-Apr-15 | -26 | 0 | 0% |
| General Sub | | | | | | | | | | | |
| ARDD0037-1 | Preparation of Seismic Performance Report Viaduct A,B,C,D - AP12.01 | 20 | 09-Apr-15 | 0% | 20 | 06-May-15 | 23-Sep-15 | 20-Oct-15 | 119 | 0 | 0% |
| ARDD0037-2 | IC/SO Approval of Seismic Performance Report Viaduct A,B,C,D - AP12.01 | 75 | 07-May-15 | 0% | 75 | 19-Aug-15 | 21-Oct-15 | 02-Feb-16 | 119 | 222 | 0% |
| ARDD0037-4 | Preparation of Seismic Performance Report Viaduct E - AP12.02 | 20 | 25-May-15 | 0% | 20 | 19-Jun-15 | 23-Sep-15 | 20-Oct-15 | 87 | 0 | 0% |
| ARDD0037-7 | Preparation of Seismic Performance Report Viaduct F - AP12.03 | 20 | 23-Mar-15 | 0% | 20 | 17-Apr-15 | 23-Sep-15 | 20-Oct-15 | 132 | 0 | 0% |
| ARDD0037-8 | IC/SO Approval of Seismic Performance Report Viaduct F - AP12.03 | 75 | 20-Apr-15 | 0% | 75 | 31-Jul-15 | 21-Oct-15 | 02-Feb-16 | 132 | 0 | 0% |
| ARDD0042-2 | IC/SO Approval of O&M Facility Provisions DDA - BP11.01 | 75 | 14-Jan-15 A | 40% | 45 | 22-May-15 | 19-Aug-15 | 20-Oct-15 | 107 | 0 | 50% |
| ARDD0042-4 | IC/SO Approval of O&M Facility Provisions DDA - BP11.01 | 0 | | 0% | 0 | 22-May-15 | | 20-Oct-15 | 107 | 65 | 0% |
| Viaduct E5 a | nd E6 | | | | | | | | | | |
| Viaduct Desi | gn | | | | | | | | | | |
| Viaduct E5 E | 6 Superstructure Optimisation | | | | | | | | | | |
| TGP0540 | Viaduct E5 & E6 - Preparation of Optimised Bearing Schedule | 15 | 23-Mar-15 | 0% | 15 | 10-Apr-15 | 27-Mar-18 | 16-Apr-18 | 786 | 17 | 0% |
| TGP0550 | Viaduct E5 & E6 - Preparation of Optimised Movement Joint Schedule | 15 | 23-Mar-15 | 0% | 15 | 10-Apr-15 | 10-Apr-18 | 30-Apr-18 | 796 | 796 | 0% |
| Associated C | Construction Milestones | | | | | | | | | | |
| ARDD0175 | Viaduct E5 & E6 - DDA approval ready for Initial Segment Casting | 0 | 18-Apr-15 | 0% | 0 | | 21-Apr-15 | | 4 | 82 | 0% |
| Viaduct E7 8 | E8 | | , | 1 | 1 | 1 | | | | | |
| Viaduct Desi | gn | | | | | | | | | | |
| Viaduct E7 E | 8 Superstructure Optimisation | | | | | | | | | | |
| TGP0740 | Viaduct E7 & E8 - Preparation of Optimised Bearing Schedule | 15 | 23-Mar-15 | 0% | 15 | 10-Apr-15 | 27-Mar-18 | 16-Apr-18 | 786 | 17 | 0% |
| TGP0750 | Viaduct E7 & E8 - Preparation of Optimised Movement Joint Schedule | 15 | 23-Mar-15 | 0% | 15 | 10-Apr-15 | 10-Apr-18 | 30-Apr-18 | 796 | 796 | 0% |
| | Construction Milestones | | | | | | | | | | |
| ARDD0220 | Viaduct E7 & E8 - DDA approval ready for Initial Segment Casting | 0 | 21-Mar-15 | 0% | 0 | | 22-Apr-15 | | 33 | 111 | 0% |
| Viaduct E2 | | | | | - | | | | | | 0,0 |
| | | | | | | | | | | ing T | Oheelert |
| Actual Work | | | hek Lap Kok I | | | | | Date 09-Mar-15 | Revis | | Checked DB |
| Planned Bar Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CC | | ing Program | - | - | - | es) | 31-Mar-15 | | | VY |
| Milestone | Milestones, No Level of Effort. | (P | Progress as | OT 21-IV | ar-15 |) | | I | | I | |



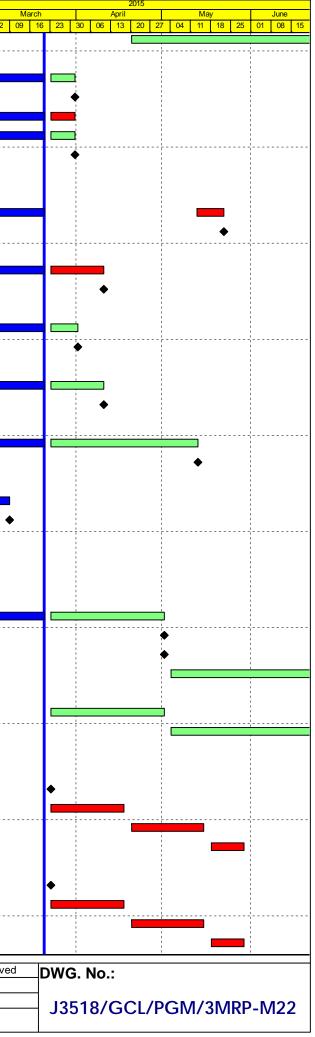
| Activity ID | Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|------------------------|---|--|--------------|--------------------------------|------------------------|---------------|----------------------------------|------------------------|------------------------|-------------|------------|------------------------|---------|
| | | | | | | | | | | | | | 23 02 |
| Viaduct Desi | <u> </u> | d'an | | | | | | | | | | | |
| | uperstructure Optimis | | 45 | 00 Mar 45 | 00/ | 45 | 40.4.5 | 07 14-1 40 | 40.4 | 700 | 47 | 00/ | [|
| TGP0240 | · · | n of Optimised Bearing Schedule | 15 | 23-Mar-15 | 0% | 15 | 10-Apr-15 | 27-Mar-18 | 16-Apr-18 | 786 | 17 | 0% | |
| TGP0250 | Construction Milestor | n of Optimised Movement Joint Schedule | 15 | 23-Mar-15 | 0% | 15 | 10-Apr-15 | 10-Apr-18 | 30-Apr-18 | 796 | 796 | 0% | |
| ARDD0266 | | by a ready for Initial Segment Casting | 0 | 18-Apr-15 | 0% | 0 | | 06-Feb-15 | | -71 | 0 | 0% | |
| Viaduct E1 | | , , , | | | | | | | | | | | |
| Viaduct Desi | qn | | | | | | | | | | | | |
| | <u> </u> | on and Further Issue of Construction Method and Temporary W | /orks [60 | 30-Jul-14 A | 98.33% | 1 | 23-Mar-15 | 30-Apr-18 | 30-Apr-18 | 810 | 0 | 98% | |
| ARDD0287-4 | Viaduct E1 - Preparatio | n of Draft Working Drawing Set | 60 | 30-Jul-14 A | 98.33% | 1 | 23-Mar-15 | 30-Apr-18 | 30-Apr-18 | 810 | 0 | 98% | |
| ARDD0287-5 | Viaduct E1 - GCL/FRE | Final Coordinated Construction Method/Temporary Work Detail | ls 0 | | 0% | 0 | 23-Mar-15 | · · | 30-Apr-18 | 810 | 810 | 0% | 1 |
| | | nsent of Supplemental Working Drawings Viaduct E1 | 10 | 23-Mar-15 | 0% | 10 | 03-Apr-15 | 24-Dec-14 | 07-Jan-15 | -63 | 0 | 0% | |
| | | nsent of Supplemental Working Drawings Viaduct E1 | 0 | | 0% | 0 | 03-Apr-15 | | 07-Jan-15 | -63 | 10 | 0% | |
| Viaduct D | | | | | | | | | | | | | |
| Viaduct Desi | gn | | | | | | | | | | | | |
| | <u> </u> | Final Coordinated Construction Method/Temporary Work Details | s 0 | | 0% | 0 | 23-Mar-15 | | 30-Apr-18 | 811 | 811 | 0% | |
| ARDD0333-6 | Viaduct D - Preparation | and Coordination of Working Drawing Set | 10 | 17-Feb-15 A | 100% | 0 | 16-Mar-15 A | | | | | 100% | |
| ARDD0333-7 | Viaduct D - Issue of Re | vised DDA Submission - DP14.03 | 0 | | 100% | 0 | 16-Mar-15 A | | | | | 100% | |
| ARDD0333-8 | Viaduct D - IC/SO Con | sent of Supplemental Working Drawings Viaduct D | 10 | 23-Mar-15 | 0% | 10 | 03-Apr-15 | 07-Jan-15 | 20-Jan-15 | -53 | 0 | 0% | I |
| | | sent of Supplemental Working Drawings Viaduct D | 0 | | 0% | 0 | 03-Apr-15 | | 20-Jan-15 | -53 | 18 | 0% | I |
| | o Contractor | | | | | | | | | | | | |
| ARDD0348 | | ent Types and Reinforcement | 0 | | 0% | 0 | 03-Apr-15 | | 20-Jan-15 | -53 | 18 | 0% | |
| ARDD0350 | - | rage and PT Requirements | 0 | | 0% | 0 | 03-Apr-15 | | 20-Jan-15 | -53 | 18 | 0% | |
| ARDD0352 | Viaduct D - Final Bearin | | 0 | | 0% | 0 | 03-Apr-15 | | 30-Apr-18 | 801 | 801 | 0% | |
| ARDD0354 | | ment Joint (MJ) Schedule | 0 | | 0% | 0 | 03-Apr-15 | | 20-Oct-15 | 142 | 49 | 0% | |
| Viaduct C | | | | | 0,0 | Ū | 00 / pi 10 | | 20 0 01 10 | | 10 | 0,0 | |
| Viaduct Desi | an | | | | | | | | | | | | |
| ARDD0384 | 7 | oval of Sub & Superstructure DDA - DP13.03 | 75 | 22-Dec-14 A | 40% | 45 | 22-May-15 | 06-Jan-15 | 10-Mar-15 | -54 | 0 | 50% | |
| | | oval of Sub & Superstructure DDA - DP13.03 | 0 | | 0% | 0 | 22-May-15 | | 10-Mar-15 | -54 | 0 | 0% | |
| | | n and Further Issue of Construction Method and Temporary Wo | - | 02-Mar-15 A | 25% | 45 | 22-May-15 | 16-Dec-14 | 17-Feb-15 | -69 | 0 | 25% | |
| | | of Draft DDA Working Drawing Set | 60 | 02-Mar-15 A | 25% | 45 | 22-May-15 | 16-Dec-14 | 17-Feb-15 | -69 | 0 | 25% | |
| | · . | Final Coordinated Construction Method/Temporary Work Details | | | 0% | 0 | 22-May-15 | 10 200 11 | 17-Feb-15 | -69 | 0 | 0% | |
| | | and Coordination of Working Drawing Set | 10 | 25-May-15 | 0% | 10 | 05-Jun-15 | 17-Feb-15 | 03-Mar-15 | -69 | 0 | 0% | |
| | · · · | of Working DDA Drawings for Viaduct C DP13.03 | 0 | | 0% | 0 | 05-Jun-15 | | 03-Mar-15 | -69 | 0 | 0% | |
| | | sent of Supplemental Working Drawings Viaduct C | 10 | 08-Jun-15 | 0% | 10 | 19-Jun-15 | 03-Mar-15 | 17-Mar-15 | -69 | 0 | 0% | |
| | | sent of Supplemental Working Drawings Viaduct C | 0 | | 0% | 0 | 19-Jun-15 | | 17-Mar-15 | -69 | 0 | 0% | |
| | Construction Milestor | | 0 | | 070 | U | 10-001-10 | | 17-10141-15 | -03 | 0 | 070 | |
| ARDD0413 | | val ready for Commencement of Pilecaps C1-C17 | 0 | 23-May-15 | 0% | 0 | | 10-Mar-15 | | -74 | 0 | 0% | |
| ARDD0413 | | val ready for Initial Segment Casting | 0 | 08-Jun-15 | 0% | 0 | | 16-Mar-15 | | -84 | 13 | 0% | |
| Viaduct A | Viaduoi O - DDA appio | | 0 | 00-0011-10 | 070 | U | | 10-10101-10 | | -0- | 10 | 070 | |
| Viaduct A | an | | | | | | | | | | | | |
| | <u> </u> | oval of Foundation DDA - DP11.01 | 75 | 04-Oct-14 A | 40% | 45 | 22-May-15 | 16-Apr-15 | 17-Jun-15 | 18 | 0 | 50% | |
| | | oval of Foundation DDA - DP11.01 | 0 | 04 00 147 | 0% | | 22-May-15 | 10-70-10 | 17-Jun-15 | 18 | 0 | 0% | |
| | | v of Draft DDA Rev A1 - DP11.03 | 5 | 19-Feb-15 A | 40% | 3 | 25-May-15 | 23-Dec-14 | 25-Dec-14 | -64 | 0 | 0% | |
| | | ncorporate GCL Comments | 10 | 26-Mar-15 | 0% | 10 | 08-Apr-15 | 23-Dec-14 26-Dec-14 | 08-Jan-15 | -64 | 0 | 0% | |
| ARDD0433-2 ARDD0434 | · | • | 0 | 20-iviai - 10 | 0% | 0 | 08-Apr-15 08-Apr-15 | 20-060-14 | 08-Jan-15 | -64 | 0 | 0% | |
| ARDD0434 ARDD0434-1 | Viaduct A - Submission of DDA - DP11.03 1 Viaduct A - Earliest IC Certificate for DDA DP11.02, DP11.03 | | | | 0% | 0 | 20-May-15 | | 24-Aug-15 | 68 | 8 | 0% | |
| ARDD0434-1 ARDD0435 | Viaduct A - Earliest IC C | · | 0 75 | 25-May-15 | 0% | 75 | 20-May-15 04-Sep-15 | 09-Jul-15 | 24-Aug-15 21-Oct-15 | 33 | 0 | 0% | |
| | | | 10 | 20-1viay-10 | 0 /0 | 13 | 04-3ep-13 | 03-30-13 | 21-00-13 | | U | U70 | |
| Actual Work | | Project ID: J3518DWPrE-M22 | Tuen Mun - C | - | | | | | Date | Revis | | Checked | Approve |
| Planned Bar | | Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CQ 3 | -Month Roll | | • | - | - | es) | 09-Mar-15 31-Mar-15 | | D | /B /Y | |
| Critical Bar | | Milestones, No Level of Effort. | (F | Progress as | s of 21-N | lar-15 |) | | 51-IVIAI-13 | | | <u> </u> | |
| · · · | | | | | | | | | | | | | |



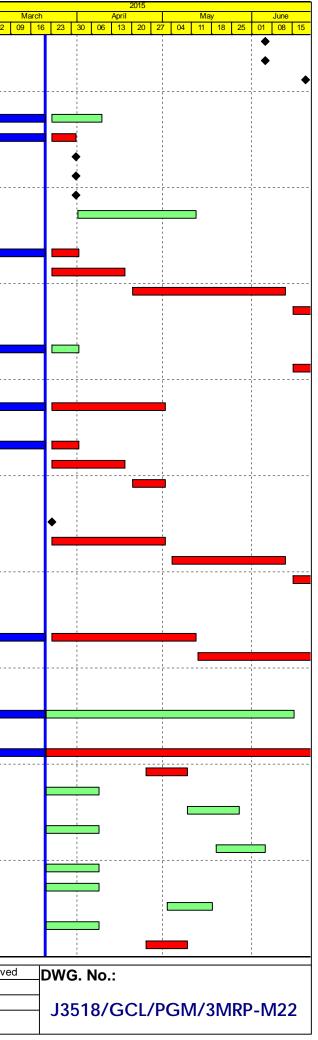
| Activity ID | | Activity Name | Or | rig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|-------------|--|---|--|------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|---------------------------------------|
| | ARDD0435-2 | Viaduct A - GCL/FRE Issue of Construction Method/Temporary Work Da | a la | 0 | | 0% | 0 | 08-Apr-15 | | 08-Jan-15 | -64 | 0 | 0% | 23 02 |
| | ARDD0435-3 | Viaduct A - Coordination and Further Issue of Construction Method and T | emporary Works Da | 60 | 09-Apr-15 | 0% | 60 | 01-Jul-15 | 09-Jan-15 | 02-Apr-15 | -64 | 0 | 0% | - |
| | | Viaduct A - Preparation of Draft DDA Working Drawing Set | | 60 | 09-Apr-15 | 0% | 60 | 01-Jul-15 | 09-Jan-15 | 02-Apr-15 | -64 | 0 | 0% | - |
| | Information to | o Contractor | | | | | | | | | | | | |
| | ARDD0445 | Viaduct A - Final Pilecap Reinforcement | | 0 | | 0% | 0 | 08-Apr-15 | | 13-Feb-15 | -38 | 0 | 0% | > |
| | ARDD0447 | Viaduct A - Final Pier Shapes and Reinforcement | | 0 | | 0% | 0 | 08-Apr-15 | | 27-Feb-15 | -28 | 11 | 0% | - > |
| | ARDD0450 | Viaduct A - Final Segment Types and Reinforcement | | 0 | | 0% | 0 | 08-Apr-15 | | 22-Jan-16 | 207 | 107 | 0% | -) |
| | ARDD0452 | Viaduct A - Final Anchorage and PT Requirements | | 0 | | 0% | 0 | 08-Apr-15 | | 22-Jan-16 | 207 | 107 | 0% | - |
| | ARDD0454 | Viaduct A - Final Bearing Schedule | | 0 | | 0% | 0 | 08-Apr-15 | | 23-Dec-15 | 185 | 57 | 0% | - |
| | ARDD0456 | Viaduct A - Final Movement Joint (MJ) Schedule | | 0 | | 0% | 0 | 08-Apr-15 | | 20-Oct-15 | 139 | 46 | 0% | ») |
| | Associated C | onstruction Milestones | | | | | | | | | | | | |
| | ARDD0463 | Viaduct A - DDA approval ready for Commencement of Piling | | 0 | 18-Jun-15 | 0% | 0 | | 22-Oct-15 | | 126 | 0 | 0% | _ |
| <u>ا</u> | /iaduct F1 & | F3 | | | | | | | 11 | | | | | |
| | Viaduct Desig | gn | | | | | | | | | | | | |
| | ARDD0485 | Viaduct F1 & F3 - IC/SO Approval of DDA - DP16.02, 16.03, 16.08, 16.0 | 9 | 75 | 25-Nov-14 A | 40% | 45 | 22-May-15 | 02-Mar-15 | 01-May-15 | -15 | 25 | 50% | • • |
| | ARDD0486-2 | Viaduct F1 & F3 - Coordination and Further Issue of Construction Metho | d and Temporary W | 60 | 02-Mar-15 A | 25% | 45 | 22-May-15 | 16-Feb-15 | 17-Apr-15 | -25 | 0 | 25% | , |
| | ARDD0486-3 | Viaduct F1 & F3 - Preparation of Draft Working Drawing Set | | 60 | 02-Mar-15 A | 25% | 45 | 22-May-15 | 16-Feb-15 | 17-Apr-15 | -25 | 0 | 25% | , _ |
| | ARDD0486-4 | Viaduct F1 & F3 - GCL/FRE Final Coordinated Construction Method/Ten | nporary Work Detail | 0 | | 0% | 0 | 22-May-15 | | 17-Apr-15 | -25 | 0 | 0% | - > |
| | ARDD0486-5 | Viaduct F1 & F3 - Preparation and Coordination of DDA/Working Drawin | g Set | 10 | 25-May-15 | 0% | 10 | 05-Jun-15 | 20-Apr-15 | 01-May-15 | -25 | 0 | 0% | - |
| | ARDD0486-6 | Viaduct F1 & F3 - Submission of Working DDA Drawings Viaduct F1,F3 I | DP16.03, DP16.09 | 0 | | 0% | 0 | 05-Jun-15 | | 06-Jul-15 | 21 | 0 | 0% | , |
| | ARDD0486-7 | Viaduct F1 & F3 - IC/SO Consent of Supplemental Working Drawings Via | aduct F1,F3 | 10 | 08-Jun-15 | 0% | 10 | 19-Jun-15 | 07-Jul-15 | 20-Jul-15 | 21 | 5 | 0% | - |
| 1 | /iaduct F2, F | F4 and F5 | | | | | | | 11 | | | | | |
| | Viaduct Desig | gn | | | | | | | | | | | | |
| | ARDD0529 | Viaduct F2, F4 & F5 - IC/SO Approval of DDA - DP16.05, 06, 11, 12, 14, | 15 | 75 | 25-Nov-14 A | 20% | 60 | 12-Jun-15 | 27-Apr-15 | 17-Jul-15 | 25 | 10 | 20% | |
| | ARDD0530-3 | Viaduct F2, F4 & F5 - Coordination and Further Issue of Construction Me | ethod and Temporar | 60 | 23-Mar-15 | 0% | 60 | 12-Jun-15 | 26-Jan-15 | 17-Apr-15 | -40 | 0 | 0% | , |
| | ARDD0530-4 | Viaduct F2, F4 & F5 - Preparation of Draft Working Drawing Set | | 60 | 23-Mar-15 | 0% | 60 | 12-Jun-15 | 26-Jan-15 | 17-Apr-15 | -40 | 0 | 0% | - |
| | ARDD0530-5 | Viaduct F2, F4 & F5 - GCL/FRE Final Coordination Construction Method | /Temporary Work D | 0 | | 0% | 0 | 12-Jun-15 | | 17-Apr-15 | -40 | 0 | 0% | - |
| | ARDD0530-6 | Viaduct F2, F4 & F5 - Preparation and Coordination of DDA/Working Dra | awing Set | 10 | 15-Jun-15 | 0% | 10 | 26-Jun-15 | 20-Apr-15 | 01-May-15 | -40 | 0 | 0% | - |
| F | Parapet and | Utility Trough | | | | | | | | | | | | |
| | ARDD0562-4 | IC/SO Approval of DDA -DP30.01 | | 75 | 31-Jul-14 A | 90.67% | 7 | 31-Mar-15 | 07-Oct-15 | 15-Oct-15 | 142 | 0 | 90% | · · · · · · · · · · · · · · · · · · · |
| | ARDD0562-5 | IC/SO Approval of DDA -DP30.01 | | 0 | | 0% | 0 | 31-Mar-15 | | 15-Oct-15 | 142 | 0 | 0% | , |
| | ARDD0566 | IC/SO Approval of DDA -DP31.01 | | 75 | 24-Oct-14 A | 80% | 15 | 10-Apr-15 | 25-Sep-15 | 15-Oct-15 | 134 | 0 | 60% | |
| | ARDD0566-1 | IC/SO Approval of DDA -DP31.01 | | 0 | | 0% | 0 | 10-Apr-15 | | 15-Oct-15 | 134 | 22 | 0% | |
| 5 | Slopeworks f | or Viaduct B: 9SE- B/C8, B/C9, B/F9, B/F85+ 10SW-A/F52 | 2, A/F53 | | | | | | | | | | | |
| | ARDD0580-5 | Preparation of Slope A/F52 Submission - CP12.03 | | 20 | 10-Feb-15 A | 30% | 14 | 09-Apr-15 | 07-Apr-15 | 24-Apr-15 | 11 | 0 | 30% | |
| | ARDD0580-6 | IC/SO Approval of Slope - CP12.03 | | 75 | 10-Apr-15 | 0% | 75 | 23-Jul-15 | 27-Apr-15 | 07-Aug-15 | 11 | 0 | 0% | - |
| 5 | Slopeworks f | for Viaduct C: 10NW -C/C22, C/C26, C/C27, C/F13, C/F14. | C/F15 | | | | | | | | | | | |
| | ARDD0587 | IC/SO Approval of Slope Combined AIP/DDA -CP13.01 | | 190 | 19-Nov-13 A | 90% | 19 | 16-Apr-15 | 23-Jun-16 | 19-Jul-16 | 328 | 0 | 90% | · |
| | ARDD0587-1 | IC/SO Approval of Slope Combined AIP/DDA -CP13.01 | | 0 | | 0% | 0 | 16-Apr-15 | | 19-Jul-16 | 328 | 162 | 0% | , |
| | ARDD0588-1 | Preparation of Fill Slope Combined AIP/DDA - CP13.02 | | 20 | 21-Nov-14 A | 30% | 14 | 09-Apr-15 | 17-Mar-16 | 05-Apr-16 | 258 | 0 | 30% | · |
| | ARDD0588-2 | IC/SO Approval of Combined AIP/DDA -CP13.02 | | 75 | 10-Apr-15 | 0% | 75 | 23-Jul-15 | 06-Apr-16 | 19-Jul-16 | 258 | 0 | 0% | , |
| ۽ | Slopeworks f | for Viaduct A: 9SE-B/FR8, B/R1, B/R2 | | | | | | | | | | | | |
| | ARDD0595 | IC/SO Approval of Slope Combined AIP/DDA - CP11.01 | | 75 | 31-Jul-14 A | 90.67% | 7 | 31-Mar-15 | 06-Nov-15 | 16-Nov-15 | 164 | 38 | 90% | , |
| | ARDD0595-1 | IC/SO Approval of Slope Combined AIP/DDA -CP11.01 | | 0 | | 0% | 0 | 22-May-15 | | 16-Nov-15 | 126 | 101 | 0% | · |
| | | for Viaduct D: 10NW -C/R4, C/F9, C/F10, C/F11, C/F17, C/F | 50 | | | | | | | | | | | |
| | ARDD0603 | IC/SO Approval of Slope Combined AIP/DDA -CP14.01 | | 75 | 16-Dec-14 A | 80% | 15 | 10-Apr-15 | 15-May-15 | 04-Jun-15 | 39 | 0 | 90% | |
| | | IC/SO Approval of Slope Combined AIP/DDA-CP14.01 | | 0 | | 0% | 0 | 10-Apr-15 | | 04-Jun-15 | 39 | 30 | 0% | - : |
| | ARDD0604-1 | Further Update of Combined AIP/DDA - CP14.02 | | 20 | 23-Mar-15 | 0% | 20 | 17-Apr-15 | 29-May-15 | 25-Jun-15 | 49 | 0 | 0% | · |
| | Actual Work | Project ID: J3518DWPrE-M22 | Tuen Mi | un - Ch | nek Lap Kok L | ink - Sout | hern C | onnection | | Date | Revis | sion (| Checked | Approved |
| | Planned Bar | Layout: J3518-DWP-3MRP Submission - M22_ | | | ng Progran | | | | es) | 09-Mar-15 | - | DI | В | |
| 1 | | Filter: TASK filters: 3-Month Lookahead, No CO | | | | | | | , | 1 T | | | | |
| | Critical Bar Milestone | Milestones, No Level of Effort. | | (P | rogress as | of 21-M | ar-15) | | - | 31-Mar-15 | | W | Υ | |



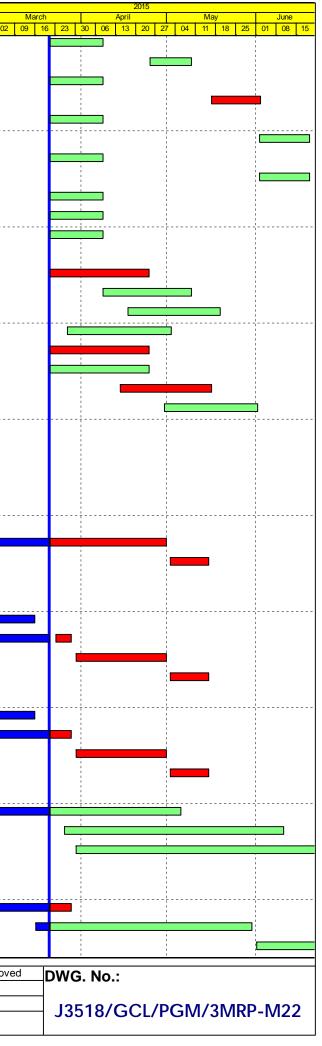
| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | 23 02 |
|--------------|---|---------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|---------------------------------------|
| ARDD0604-2 | 2 IC/SO Approval of Slope Combined AIP/DDA-CP14.02 | 75 | 20-Apr-15 | 0% | 75 | 31-Jul-15 | 26-Jun-15 | 08-Oct-15 | 49 | 0 | 0% | 23 02 |
| Waterwork | s, Drainage & Utility Diversions | | · · | | <u> </u> | | | | | | | |
| ARDD0629 | IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01 | 75 | 22-Jul-14 A | 90.67% | 7 | 31-Mar-15 | 12-May-15 | 20-May-15 | 36 | 0 | 90% | |
| ARDD0629- | I IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01 | 0 | | 0% | 0 | 31-Mar-15 | | 20-May-15 | 36 | 0 | 0% | |
| ARDD0629-2 | 2 Gov't Approval of Submissions for Waterworks, Drainage & Utility Diversions | 75 | 02-Jan-14 A | 90.67% | 7 | 31-Mar-15 | 13-Feb-15 | 23-Feb-15 | -26 | 0 | 90% | |
| ARDD0630-3 | 3 IC/SO Approval of Deck Drainage DDA - BP20.02 | 75 | 30-Jun-14 A | 90.67% | 7 | 31-Mar-15 | 23-Mar-17 | 31-Mar-17 | 523 | 0 | 90% | |
| ARDD0630-4 | IC/SO Approval of Deck Drainage DDA - BP20.02 | 0 | | 0% | 0 | 31-Mar-15 | | 31-Mar-17 | 523 | 0 | 0% | |
| Viaduct Ap | proach Ramp Retaining Walls | | | | | | | | | | | |
| Approach I | | | | | | | | | | | | |
| ARDD0652 | Approach D - IC/SO Approval of Approach Ramp D DDA - DP23.01 | 75 | 25-Sep-14 A | 89.33% | 8 | 22-May-15 | 07-Apr-15 | 16-Apr-15 | -26 | 0 | 90% | |
| ARDD0652 | 1 Approach D - IC/SO Approval of Approach Ramp D DDA - DP23.01 | 0 | | 0% | 0 | 22-May-15 | | 16-Apr-15 | -26 | 0 | 0% | |
| Approach I | Ramp C | | | | | | | | | | | |
| ARDD0658 | Approach C - IC/SO Approval of Approach Ramp C DDA - DP20.01 | 75 | 03-Oct-14 A | 80% | 15 | 10-Apr-15 | 24-Feb-15 | 17-Mar-15 | -19 | 0 | 80% | |
| ARDD0658 | 1 Approach C - IC/SO Approval of Approach Ramp C DDA - DP20.01 | 0 | | 0% | 0 | 10-Apr-15 | | 17-Mar-15 | -19 | 0 | 0% | |
| Approach I | Ramp B | | | | | | | | | 1 | | |
| ARDD0664 | Approach B - IC/SO Approval of Approach Ramp B DDA - DP21.01 | 75 | 14-Oct-14 A | 89.33% | 8 | 01-Apr-15 | 30-Dec-15 | 08-Jan-16 | 202 | 0 | 90% | |
| ARDD0664 | 1 Approach B - IC/SO Approval of Approach Ramp B DDA - DP21.01 | 0 | | 0% | 0 | 01-Apr-15 | | 08-Jan-16 | 202 | 230 | 0% | |
| Approach A | | | | | | | | | | | | |
| ARDD0670 | Approach A - IC/SO Approval of Approach Ramp A DDA - DP20.01 | 75 | 03-Oct-14 A | 80% | 15 | 10-Apr-15 | 21-Jul-15 | 10-Aug-15 | 86 | 0 | 80% | |
| ARDD0670 | 1 Approach A - IC/SO Approval of Approach Ramp A DDA - DP20.01 | 0 | | 0% | 0 | 10-Apr-15 | | 10-Aug-15 | 86 | 69 | 0% | |
| Approach I | | | | | | | | | | | | |
| ARDD0676 | Approach F - IC/SO Approval of Approach Ramp F DDA - DP24.01 | 75 | 23-Dec-14 A | 49.33% | 38 | 13-May-15 | 31-Mar-15 | 21-May-15 | 6 | 0 | 50% | · · · · · · · · · · · · · · · · · · · |
| ARDD0676 | 1 Approach F - IC/SO Approval of Approach Ramp F DDA - DP24.01 | 0 | | 0% | 0 | 13-May-15 | | 08-Dec-15 | 149 | 32 | 0% | |
| Viaduct Pa | vement | | | | | | | | | | | |
| ARDD871 | Viaduct Pavement - IC/SO Approval of AIP/DDA - BP02.01 | 75 | 27-Jun-14 A | 100% | 0 | 09-Mar-15 A | | | | | 100% | |
| ARDD871-1 | Viaduct Pavement - IC/SO Approval of AIP/DDA - BP02.01 | 0 | | 100% | 0 | 09-Mar-15 A | | | | | 100% | • |
| | kings and Street Furniture | | | | | | | | | | | |
| ARDD0688 | | 75 | 16-Oct-14 A | 100% | 0 | 26-Feb-15 A | | | | | 100% | |
| ARDD0688 | 1 IC/SO Approval of Signs, Markings & Street Furniture DDA - BP03.01 | 0 | | 100% | 0 | 26-Feb-15 A | | | | | 100% | • |
| ARDD0700 | | 75 | 15-Oct-14 A | 60% | 30 | 01-May-15 | 23-Nov-15 | 01-Jan-16 | 175 | 0 | 60% | |
| ARDD0700 | | 0 | | 0% | 0 | 01-May-15 | | 01-Jan-16 | 175 | 0 | 0% | |
| ARDD0701 | Water Supply Application to WSD | 0 | | 0% | 0 | 01-May-15 | | 01-Jan-16 | 175 | 0 | 0% | |
| ARDD0702 | Gov't Approval of LVIA | 40 | 04-May-15 | 0% | 40 | 26-Jun-15 | 04-Jan-16 | 26-Feb-16 | 175 | 168 | 0% | |
| Remaining | Works | | | | | | | | | | | |
| ARDD0704 | Preparation of Remaining Works AIP - ZP01.00 | 30 | 23-Mar-15 | 0% | 30 | 01-May-15 | 29-Aug-16 | 07-Oct-16 | 375 | 0 | 0% | |
| ARDD0705 | IC/SO Approval of Remaining Works AIP - ZP01.00 | 40 | 04-May-15 | 0% | 40 | 26-Jun-15 | 10-Oct-16 | 02-Dec-16 | 375 | 0 | 0% | |
| Segment T | arget Geometry And Erection Engineering | | | | <u> </u> | | .]] | | |] | | |
| Viaduct A | | | | | | | | | | | | |
| ARDD0716 | Viaduct A - Confirmation of Erection Sequence from Freyssinet | 0 | | 0% | 0 | 23-Mar-15 | Í | 05-Feb-15 | -31 | 0 | 0% | |
| ARDD0717 | Viaduct A - Erection Sequence Analysis | 20 | 23-Mar-15 | 0% | 20 | 17-Apr-15 | 06-Feb-15 | 05-Mar-15 | -31 | 0 | 0% | |
| ARDD0718 | Viaduct A - Target Geometry Analysis | 20 | 20-Apr-15 | 0% | 20 | 15-May-15 | 06-Mar-15 | 02-Apr-15 | -31 | 0 | 0% | |
| ARDD0719 | Viaduct A - Segment Geometry Schedules | 10 | 18-May-15 | 0% | 10 | 29-May-15 | 03-Apr-15 | 16-Apr-15 | -31 | 33 | 0% | |
| Viaduct C | | | | | | | | | | | | |
| ARDD0721 | Viaduct C - Confirmation of Erection Sequence from Freyssinet | 0 | | 0% | 0 | 23-Mar-15 | | 05-Jan-15 | -55 | 0 | 0% | |
| ARDD0722 | Viaduct C - Erection Sequence Analysis | 20 | 23-Mar-15 | 0% | 20 | 17-Apr-15 | 05-Jan-15 | 02-Feb-15 | -55 | 0 | 0% | |
| ARDD0723 | Viaduct C - Target Geometry Analysis | 20 | 20-Apr-15 | 0% | 20 | 15-May-15 | 02-Feb-15 | 02-Mar-15 | -55 | 0 | 0% | |
| ARDD0724 | Viaduct C - Segment Geometry Schedules | 10 | 18-May-15 | 0% | 10 | 29-May-15 | 02-Mar-15 | 16-Mar-15 | -55 | 5 | 0% | |
| Actual Work | Project ID: J3518DWPrE-M22 | Tuen Mun - C | hek Lap Kok I | _ink - Sou | thern | Connection | | Date | Revis | sion (| Checked | Approved |
| Planned Bar | Layout: J3518-DWP-3MRP Submission - M22_ | 3-Month Rolli | - | | | | | 09-Mar-15 | | D | В | |
| Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort. | | Progress as | • | - | - | , | 31-Mar-15 | | M | IΥ | |
| Milestone | | | - | | | - | | | | | | |



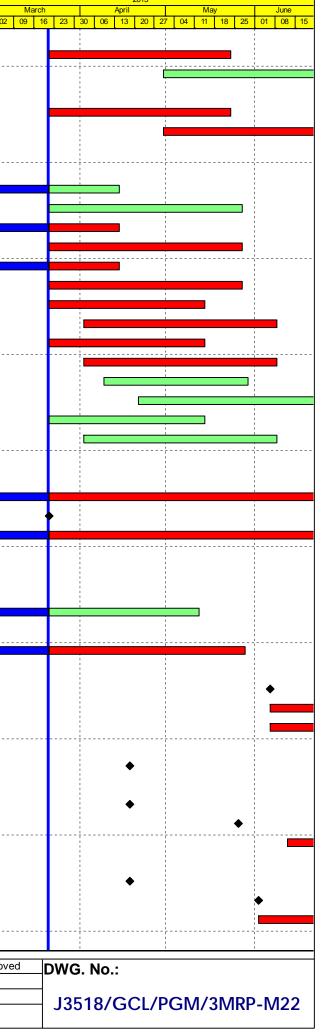
| Activity ID | | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|-------------|---------------|---|-------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------------|-------------|------------|------------------------|---------|
| | | | | | | | 05 1 45 | | 10.14 15 | | | | 23 02 |
| | | Viaduct C - Issue of Pierhead Segments Bridge C1, C2, C3, C4 | 0 | | 0% | 0 | 05-Jun-15 | | 16-Mar-15 | -60 | 0 | 0% | |
| | | Viaduct C - Issue of Casting Data and Segment Catalogue Bridge C4, C3 (Final) | 0 | | 0% | 0 | 05-Jun-15 | | 16-Mar-15 | -60 | 0 | 0% | |
| | | Viaduct C - Issue of Casting Data and Segment Catalogue Bridge C2, C1 (Final) | 0 | | 0% | 0 | 19-Jun-15 | | 17-Mar-15 | -69 | 0 | 0% | |
| | /iaduct D | | | | 0.001/ | | | | | | | | |
| | ARDD0728 | Viaduct D - Target Geometry Analysis | 20 | 11-Dec-14 A | 30% | 14 | 09-Apr-15 | 11-Apr-18 | 30-Apr-18 | 797 | 797 | 30% | |
| | ARDD0729 | Viaduct D - Segment Geometry Schedules | 10 | 11-Dec-14 A | 30% | 7 | 31-Mar-15 | 12-Jan-15 | 20-Jan-15 | -50 | 0 | 30% | |
| | ARDD0729-1 | Viaduct D - Issue of Pierhead Segments Bridge D1, D2, D3 | 0 | | 0% | 0 | 31-Mar-15 | | 20-Jan-15 | -50 | 3 | 0% | |
| | | Viaduct D - Issue of Casting Data and Segment Catalogue Bridge D2, D3 (Final) | 0 | | 0% | 0 | 31-Mar-15 | | 20-Jan-15 | -50 | 3 | 0% | |
| | ARDD0729-4 | Viaduct D - Issue of Casting Data and Segment Catalogue Bridge D1 (Final) | 0 | <u> </u> | 0% | 0 | 31-Mar-15 | 40.14 45 | 20-Jan-15 | -50 | 0 | 0% | |
| | | Viaduct D - Issue Erection Manual | 30 | 01-Apr-15 | 0% | 30 | 12-May-15 | 13-May-15 | 23-Jun-15 | 30 | 0 | 0% | |
| | /iaduct E5 ar | | | 1 | | | | | | 1 | 1 | | |
| | ARDD0734 | Viaduct E5 & E6 - Segment Geometry Schedules | 10 | 05-May-14 A | 20% | 8 | 01-Apr-15 | 28-Oct-14 | 07-Nov-14 | -103 | 0 | 20% | |
| | TGP0560 | Viaduct E5 & E6 - Issue of Optimised Casting Data and Segment Catalogue Bridge E5 | 20 | 23-Mar-15 | 0% | 20 | 17-Apr-15 | 16-Dec-14 | 13-Jan-15 | -69 | 0 | 0% | |
| | TGP0570 | Viaduct E5 & E6 - Issue of Optimised Casting Data and Segment Catalogue Bridge E6 | 40 | 20-Apr-15 | 0% | 40 | 12-Jun-15 | 13-Jan-15 | 10-Mar-15 | -69 | 0 | 0% | |
| | TGP0590 | Viaduct E5 & E6 - Issue Erection Manual | 10 | 15-Jun-15 | 0% | 10 | 26-Jun-15 | 02-Jun-15 | 16-Jun-15 | -9 | 100 | 0% | |
| \\ | /iaduct E7 & | | | | | | | | | | | | |
| | ARDD0739 | Viaduct E7 & E8 - Segment Geometry Schedules | 10 | 05-May-14 A | 20% | 8 | 01-Apr-15 | 21-May-15 | 02-Jun-15 | 44 | 112 | 20% | |
| | TGP0760 | Viaduct E7 & E8 - Issue of Optimised Casting Data and Segment Catalogue Bridge E7 | 40 | 15-Jun-15 | 0% | 40 | 07-Aug-15 | 10-Mar-15 | 05-May-15 | -69 | 0 | 0% | |
| \\ | /iaduct E1 | | | | | | | | | | | | |
| | ARDD0744-3 | Viaduct E1 - Issue Erection Manual | 30 | 11-Dec-14 A | 0% | 30 | 01-May-15 | 19-Jan-15 | 02-Mar-15 | -45 | 1 | 0% | |
| ۱ | /iaduct E2 | | | | | | | | | | | | |
| | ARDD0749 | Viaduct E2 - Segment Geometry Schedules | 10 | 24-Mar-14 A | 20% | 8 | 01-Apr-15 | 23-Feb-15 | 04-Mar-15 | -20 | 12 | 20% | |
| | TGP0260 | Viaduct E2 - Issue of Optimised Casting Data and Segment Catalogue Bridge E2 | 20 | 23-Mar-15 | 0% | 20 | 17-Apr-15 | 09-Jan-15 | 05-Feb-15 | -51 | 0 | 0% | |
| | TGP0290 | Viaduct E2 - Issue of Erection Manual | 10 | 20-Apr-15 | 0% | 10 | 01-May-15 | 05-Mar-15 | 18-Mar-15 | -32 | 44 | 0% | |
| ۱ ۱ | /iaduct F | | | | | | | | | | | | |
| | ARDD0751 | Viaduct F - Confirmation of Erection Sequence from Freyssinet | 0 | | 0% | 0 | 23-Mar-15 | | 23-Jan-15 | -40 | 0 | 0% | |
| | ARDD0752 | Viaduct F - Erection Sequence Analysis | 30 | 23-Mar-15 | 0% | 30 | 01-May-15 | 26-Jan-15 | 06-Mar-15 | -40 | 0 | 0% | |
| | ARDD0753 | Viaduct F - Target Geometry Analysis | 30 | 04-May-15 | 0% | 30 | 12-Jun-15 | 09-Mar-15 | 17-Apr-15 | -40 | 0 | 0% | |
| | ARDD0754 | Viaduct F - Segment Geometry Schedules | 10 | 15-Jun-15 | 0% | 10 | 26-Jun-15 | 20-Apr-15 | 01-May-15 | -40 | 0 | 0% | |
| Ot | her Design | | | | | | | | | | | | |
| M | arine Perm | anent Navigation Aids | | | | | | | | | | | |
| E | 3MT0135 | Preparation of MPNA DDA - BP36.01 | 46 | 11-Jun-14 A | 19.57% | 37 | 12-May-15 | 09-Mar-15 | 28-Apr-15 | -10 | 0 | 20% | |
| E | BMT0140 | IC/SO Approval of MPNA DDA BP36.01 | 75 | 13-May-15 | 0% | 75 | 25-Aug-15 | 29-Apr-15 | 11-Aug-15 | -10 | 0 | 0% | |
| Ma | jor Procure | nent | | | | | | | | | | | |
| Ma | arine Perma | nent Navigaion Aids | | | | | | | | | | | |
| PI | R65011 | Design & Approvals for Marine Navigation Aids | 150 | 23-Oct-13 A | 54.67% | 68 | 15-Jun-15 | 21-May-15 | 11-Aug-15 | 47 | 59 | 55% | |
| То | wer Cranes | | | | | | | | | | | | |
| PI | R66011 | Procure & Deliver Tower Cranes | 325 | 01-Oct-14 A | 53.85% | 150 | 21-Sep-15 | 19-Jan-15 | 25-Jul-15 | -50 | 770 | 50% | |
| PI | R66013 | Erect & Commission Tower Crane @ E4 | 12 | 25-Apr-15 | 0% | 12 | 09-May-15 | 19-Jan-15 | 02-Feb-15 | -74 | 0 | 0% | |
| PI | R66013-1 | Dismantle Tower Crane @ E4 | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 0% | |
| Pi | R66014 | Erect & Commission Tower Crane @ E5 | 12 | 09-May-15 | 0% | 12 | 27-May-15 | 08-Jun-15 | 29-Jun-15 | 21 | 47 | 0% | |
| PI | R66014-1 | Dismantle Tower Crane @ E5 | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 0% | |
| Pi | R66015 | Erect & Commission Tower Crane @ E6 | 12 | 19-May-15 | 0% | 12 | 05-Jun-15 | 12-Aug-15 | 27-Aug-15 | 60 | 97 | 0% | |
| PI | R66015-1 | Dismantle Tower Crane @ E6 | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 0% | |
| PI | R66016-1 | Dismantle Tower Crane @ E7 | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 0% | |
| PI | R66017 | Erect & Commission Tower Crane @ E8 | 12 | 02-May-15 | 0% | 12 | 18-May-15 | 08-Aug-15 | 25-Aug-15 | 71 | 132 | 0% | |
| PI | R66017-1 | Dismantle Tower Crane @ E8 | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 0% | |
| PI | R66018 | Erect & Commission Tower Crane @ E9 | 12 | 25-Apr-15 | 0% | 12 | 09-May-15 | 22-Jan-15 | 05-Feb-15 | -70 | 2 | 0% | |
| | | Project ID: J3518DWPrE-M22 | | hak Lan Kat I | ink C- | - | | | Doto | Revi | sion | Checked | Approve |
| | Actual Work | Leventh 12540 DW/D OMDD Culturing MOO | | hek Lap Kok I | | | | oc) | Date 09-Mar-15 | Kevi | | DB | Approve |
| | Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CO | | ing Program | • | - | - | 5) | 31-Mar-15 | | | VY | · |
| ٠ | Milestone | Milestones, No Level of Effort. | 1) | Progress as | | ar-15 |) | | | | | | |
| L | | | | | | | | | | | | | |



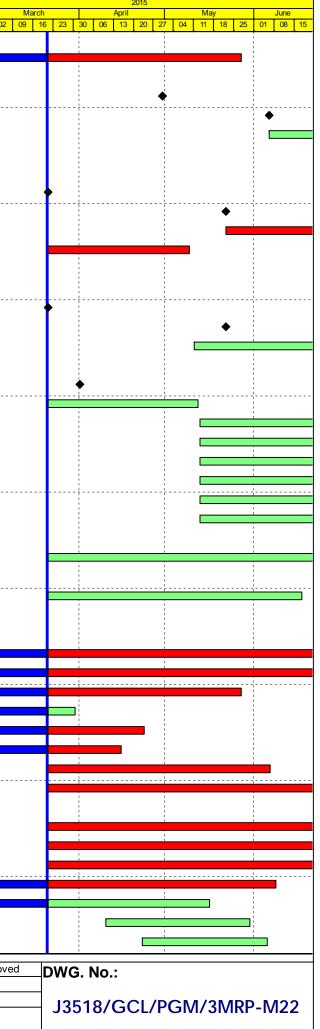
| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|---------------------------------|--|-------------|--------------------------------|------------------------|---------------|----------------------------------|------------------------|------------------------|-------------|------------|------------------------|-------|
| PR66018-1 | Dismantle Tower Crane @ E9 | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 23 0% | 02 |
| PR66019 | Erect & Commission Tower Crane @ E10 | 12 | 21-Mai-15 25-Apr-15 | 0% | 12 | 08-Apr-15 09-May-15 | 14-Api-18 11-May-15 | 28-May-15 | 13 | 18 | 0% | |
| PR66019-1 | Dismantle Tower Crane @ E10 | 12 | 23-Apr-15 21-Mar-15 | 0% | 12 | 09-May-15 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 0% | |
| PR66020 | Erect & Commission Tower Crane @ E11 | 12 | 16-May-15 | 0% | 12 | 02-Jun-15 | 17-Feb-15 | 06-Mar-15 | -65 | 61 | 0% | |
| PR66020-1 | Dismantle Tower Crane @ E11 | 12 | 21-Mar-15 | 0% | 12 | 02-501-15 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 0% | |
| PR66020-1 | Erect & Commission Tower Crane @ E12A | 12 | 02-Jun-15 | 0% | 12 | 19-Jun-15 | 08-Sep-15 | 24-Sep-15 | 73 | 110 | 0% | |
| PR66021-1 | Dismantle Tower Crane @ E12A | 12 | 21-Mar-15 | 0% | 12 | | | • | | 851 | 0% | |
| PR66021-1 PR66022 | | | | 0% | | 08-Apr-15 | 14-Apr-18 06-Aug-15 | 30-Apr-18 | 851 47 | 91 | 0% | |
| | Erect & Commission Tower Crane @ E12B | 12 | 02-Jun-15 | | 12 | 19-Jun-15 | | 22-Aug-15 | | - | | |
| PR66022-1 | Dismantle Tower Crane @ E12B | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 0% 0% | |
| PR66023-1 PR66024-1 | Dismantle Tower Crane @ E13-Sth Dismantle Tower Crane @ E13-Nth | 12 | 21-Mar-15 21-Mar-15 | 0% 0% | 12 12 | 08-Apr-15 08-Apr-15 | 14-Apr-18 14-Apr-18 | 30-Apr-18 30-Apr-18 | 851 851 | 851 851 | 0% | |
| | latforms for Tower Cranes | 12 | 21-10101-15 | 0% | 12 | 06-Api-15 | 14-Api-16 | 30-Api-16 | 100 | 651 | 0% | |
| PR66026 | Inst.Temp.Eqpt.Platform (piles & deck) @ E4 | 24 | 21-Mar-15 | 0% | 24 | 24-Apr-15 | 18-Dec-14 | 19-Jan-15 | -74 | 0 | 0% | |
| PR66027 | Inst.Temp.Eqpt.Platform (piles & deck) @ E5 | 24 | 08-Apr-15 | 0% | 24 | 09-May-15 | 06-May-15 | 08-Jun-15 | 21 | 0 | 0% | |
| PR66028 | Inst.Temp.Eqpt.Platform (piles & deck) @ E6 | 24 | 17-Apr-15 | 0% | 24 | 19-May-15 | 11-Jul-15 | 12-Aug-15 | 60 | 0 | 0% | |
| PR66030 | Inst.Temp.Eqpt.Platform (piles & deck) @ E8 | 24 | 27-Mar-15 | 0% | 24 | 02-May-15 | 09-Jul-15 | 08-Aug-15 | 71 | 0 | 0% | |
| PR66030 | Inst. Temp.Eqpt.Platform (piles & deck) @ E9 | 24 | 21-Mar-15 | 0% | 24 | 24-Apr-15 | 22-Dec-14 | 22-Jan-15 | -70 | 0 | 0% | |
| PR66032 | Inst. Temp.Eqpt.Platform (piles & deck) @ E9 | | 21-Mar-15 21-Mar-15 | 0% | 24 | · · | 09-Apr-15 | | | 0 | 0% | |
| | | 24 | | | | 24-Apr-15 | | 11-May-15 17-Feb-15 | 13 | - | 0% | |
| PR66033 PR66034 | Inst.Temp.Eqpt.Platform (piles & deck) @ E11 | 24 | 14-Apr-15 | 0% 0% | 24 | 16-May-15 | 20-Jan-15 | | -65 47 | 0 | 0% | |
| | Re-arrange temp.platform @ E12 | 24 | 30-Apr-15 | 0% | 24 | 01-Jun-15 | 07-Jul-15 | 06-Aug-15 | 47 | 0 | 0% | |
| | nt Installation Equipment | | | | | | | | | | | |
| Launching (PR67040 | Launching Gantry Design | 130 | 05-Feb-14 A | 100% | 0 | 23-Feb-15 A | | | | | 100% | |
| PR67040 | Launching Gantry Design | 130 | 10-Mar-14 A | 100% | 0 | 23-Feb-15 A | | | | | 100% | |
| PR67041 | Launching Gantry 1 Pablication | 24 | | 100% | 0 | 26-Feb-15 A | | | | | 100% | |
| | | 24 | 25-Aug-14 A | 100% | 0 | 20-FeD-15 A | | | | | 100% | |
| Launching (PR67043 | Launching Gantry 2 Fabrication | 142 | 16-Jun-14 A | 78.17% | 31 | 20 Apr 15 | 27-Nov-14 | 05-Jan-15 | -92 | 0 | 60% | |
| PR67043 | Launching Gantry 2 Pablication | 142 | 02-May-15 | 0% | 12 | 30-Apr-15 15-May-15 | 06-Jan-15 | 19-Jan-15 | -92 | 0 | 0% | |
| | | 12 | 02-1viay-15 | 0 78 | 12 | 15-iviay-15 | 00-Jan-15 | 19-Jan-15 | -92 | 0 | 078 | |
| Lifting Fram | | | | | | | | | | | | |
| PR68011 | Lifting Frame 1&2 Design | 86 | 02-Jun-14 A | 100% | 0 | 16-Mar-15 A | | | 1 | ĺ | 100% | |
| PR68012 | Lifting Frame 1&2 Approval | 24 | 28-Feb-15 A | 75% | 6 | 28-Mar-15 | | 06-Jan-15 | -68 | 0 | 80% | |
| PR68013 | Lifting Frame 1&2 Fabrication | 24 | 30-Mar-15 | 0% | 24 | 30-Apr-15 | 06-Jan-15 | 03-Feb-15 | -68 | 0 | 0% | |
| PR68014 | Lifting Frame 1&2 Delivery | 12 | 02-May-15 | 0% | 12 | | 03-Feb-15 | 17-Feb-15 | -68 | 11 | 0% | |
| Lifting Fram | | 12 | 02 May 10 | 070 | 12 | To May To | 0010010 | 11 1 65 10 | 00 | | 070 | |
| PR68015 | Lifting Frame 3&4 Design | 70 | 02-Jun-14 A | 100% | 0 | 16-Mar-15 A | | | | | 100% | |
| PR68016 | Lifting Frame 3&4 Approval | 24 | 28-Feb-15 A | 70.83% | 7 | | 05-Feb-15 | 13-Feb-15 | -35 | 0 | 80% | |
| PR68017 | Lifting Frame 3&4 Fabrication | 24 | 30-Mar-15 | 0% | 24 | 30-Apr-15 | 13-Feb-15 | 17-Mar-15 | -35 | 0 | 0% | |
| PR68018 | Lifting Frame 3&4 Delivery | 12 | 02-May-15 | 0% | 12 | | 17-Mar-15 | 31-Mar-15 | -35 | 24 | 0% | |
| Lifting Fram | - | 12 | | 070 | | To may To | | of mar to | 00 | | 0,0 | |
| PR68019 | Lifting Frame 5&6 Design | 70 | 22-Dec-14 A | 51.43% | 34 | 05-May-15 | 08-Jun-15 | 18-Jul-15 | 61 | 0 | 15% | |
| PR68020 | Lifting Frame 5&6 Approval | 60 | 26-Mar-15 | 0% | 60 | 10-Jun-15 | 12-Jun-15 | 22-Aug-15 | 61 | 4 | 0% | |
| PR68021 | Lifting Frame 5&6 Fabrication | 85 | 30-Mar-15 | 0% | 85 | 15-Jul-15 | 11-Jun-15 | 19-Sep-15 | 57 | 0 | 0% | |
| Unloading F | | | | 070 | | | in call ic | 10 000 10 | | | 0,0 | |
| Type 1 (at B | | | | | | | | | | | | |
| PR69100 | Unloading Frame Type 1 Design | 50 | 05-May-14 A | 86% | 7 | 28-Mar-15 | 10-Jan-15 | 17-Jan-15 | -57 | 0 | 40% | |
| PR69110 | Unloading Frame Type 1 Fabrication | 80 | 16-Mar-15 A | 31.25% | 55 | 30-May-15 | 06-Jan-18 | 14-Mar-18 | 829 | 0 | 0% | |
| PR69120 | Unloading Frame Type 1 Delivery | 24 | 01-Jun-15 | 0% | 24 | 29-Jun-15 | 15-Mar-18 | 16-Apr-18 | 829 | 24 | 0% | |
| | | | | | | | | | | | | |
| Actual Work | LAND LIDEAD DIVID ONDE ON LAND MOO | | hek Lap Kok I | | | | \ | Date 09-Mar-15 | Revi | | Checked App DB | orove |
| Planned Bar Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CC | | ing Program | • | - | - | es) | 09-Mar-15 31-Mar-15 | | | VY | |
| ♦ ♦ Milestone | Milestones, No Level of Effort. | (F | Progress as | of 21-M | ar-15 |) | | | | I* | I | |
| | | | | | | | | | | | | |



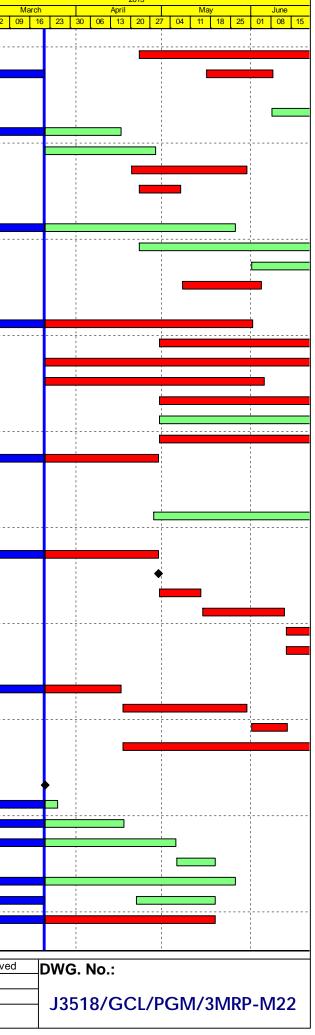
| / ID | Activity Name | Orig. Durn. | Act. Start / FC Early | Duration % | Rem. | Act. Finish / FC | Late Start | Late Finish | Total Float | Free Float | Physical % |
|---|--|---|---|---|---|---|---|--|--|--|--|
| | | Ĵ | Start | Complete | Durn. | Early Finish | | | | | Complete |
| Type 2 (at B | ridge E1) | | | | | | 1 1 | | | | |
| PR69170 | Unloading Frame Type 2 Design | 50 | 21-Mar-15 | 0% | 50 | 23-May-15 | 10-Jan-15 | 12-Mar-15 | -57 | 0 | 0% |
| PR69180 | Unloading Frame Type 2 Fabrication | 80 | 30-Apr-15 | 0% | 80 | 05-Aug-15 | 07-Dec-17 | 16-Mar-18 | 776 | 0 | 0% |
| Type 4 (at H | KBCF) | | | | | | | | | | |
| PR69250 | Unloading Frame Type 4 Design | 50 | 21-Mar-15 | 0% | 50 | 23-May-15 | 10-Jan-15 | 12-Mar-15 | -57 | 0 | 0% |
| PR69260 | Unloading Frame Type 4 (BCF) Fabrication | 80 | 30-Apr-15 | 0% | 80 | 05-Aug-15 | | 28-May-15 | -57 | 0 | 0% |
| Deck Segme | nts & Precast Pile Cap Shells | | • | | | J | | ļ | | | |
| Preliminarie | - | | | | | | | | | | |
| MBBE0018 | Precast Segment Mould Design (Viaduct E5, E6, E7 & E8) | 42 | 05-Jul-14 A | 59.52% | 17 | 14-Apr-15 | 25-Mar-15 | 18-Apr-15 | 4 | 903 | 60% |
| MBBE0020 | Precast Segment Mould Fabrication & Assembly (Viaduct E5, E6, E7 & E8) | 52 | 21-Mar-15 | 0% | 52 | 27-May-15 | 25-Mar-15 | 01-Jun-15 | 4 | 67 | 0% |
| MBBE0024 | Precast Segment Mould Design (Viaduct E2) | 42 | 28-Jun-14 A | 59.52% | 17 | 14-Apr-15 | 14-Jan-15 | 02-Feb-15 | -54 | 903 | 60% |
| MBBE0024 | Precast Segment Mould Design (Vladuct E2) Precast Segment Mould Fabrication & Assembly (Vladuct E2) | 52 | 20-Jun- 14 A 21-Mar-15 | 0% | 52 | 27-May-15 | 14-Jan-15 | 18-Mar-15 | -54 | 903 | 00% |
| MBBE0020 | | | 30-Jul-14 A | 59.52% | | , | | 02-Feb-15 | | - | |
| | Precast Segment Mould Design (Viaduct E1) | 42 | | | 17 | 14-Apr-15 | 11-Dec-14 | | -80 | 878 | 40% |
| MBBE0032 | Precast Segment Mould Fabrication & Assembly (Viaduct E1) | 52 | 21-Mar-15 | 0% | 52 | 27-May-15 | 11-Dec-14 | 13-Feb-15 | -80 | 0 | 0% |
| MBBE0036 | Precast Segment Mould Design (Viaduct D) | 42 | 21-Mar-15 | 0% | 42 | 14-May-15 | 13-Dec-14 | 03-Feb-15 | -78 | 0 | 0% |
| MBBE0038 | Precast Segment Mould Fabrication & Assembly (Viaduct D) | 52 | 02-Apr-15 | 0% | 52 | 08-Jun-15 | 27-Dec-14 | 02-Mar-15 | -78 | 0 | 0% |
| MBBE0042 | Precast Segment Mould Design (Viaduct C) | 42 | 21-Mar-15 | 0% | 42 | 14-May-15 | 06-Feb-15 | 31-Mar-15 | -34 | 0 | 0% |
| MBBE0044 | Precast Segment Mould Fabrication & Assembly (Viaduct C) | 52 | 02-Apr-15 | 0% | 52 | 08-Jun-15 | 18-Feb-15 | 28-Apr-15 | -34 | 42 | 0% |
| MBBE0048 | Precast Segment Mould Design (Viaduct A) | 42 | 09-Apr-15 | 0% | 42 | 29-May-15 | 17-Dec-15 | 06-Feb-16 | 209 | 0 | 0% |
| MBBE0050 | Precast Segment Mould Fabrication & Erection (Viaduct A) | 52 | 21-Apr-15 | 0% | 52 | 23-Jun-15 | 31-Dec-15 | 04-Mar-16 | 209 | 95 | 0% |
| MBBE0054 | Precast Segment Mould Design (Viaduct F1 to F5) | 42 | 21-Mar-15 | 0% | 42 | 14-May-15 | 15-Jun-15 | 04-Aug-15 | 67 | 0 | 0% |
| MBBE0056 | Precast Segment Mould Fabrication & Erection (Viaduct F1 to F5) | 52 | 02-Apr-15 | 0% | 52 | 08-Jun-15 | 27-Jun-15 | 27-Aug-15 | 67 | 58 | 0% |
| Viaduct B | | | | | | | | | | | |
| Precast Dec | k Segments | | | | | | | | | | |
| MBBE0130-1 | B: Progressive Pier Head Segment Manufacture & Delivery remaining segments | 54 | 02-Dec-14 A | 0% | 157 | 30-Sep-15 | 07-Mar-15 | 04-May-15 | -12 | 875 | 16.7% |
| MBBE130 | B: Commence Match Cast Segment Delivery | 0 | 21-Mar-15 | 0% | 0 | | 30-Apr-18 | | 920 | 920 | 0% |
| MBBE130-1 | B: Progressive Match Cast Segment Manufacture & Delivery remaining segments (334 Nr) | 96 | 24-Oct-14 A | 10.42% | 86 | 08-Jul-15 | 19-Nov-14 | 05-Mar-15 | -99 | 0 | 10.48% |
| Viaduct E | | | | | | | | | | | |
| Precast Pile | Caps | | | | | | | | | | |
| Viaduct E1 | | | | | | | | | | | |
| PP7330 | Production of Viaduct E1 Marine Precast Pile Cap Shells | 80 | | | | | | | | | |
| Viaduct E2 | | | 17-Oct-14 A | 50% | 40 | 12-May-15 | 10-Mar-18 | 30-Apr-18 | 880 | 880 | 50% |
| | | | 17-Oct-14 A | 50% | 40 | 12-May-15 | 10-Mar-18 | 30-Apr-18 | 880 | 880 | 50% |
| PP7260 | Production of Viaduct E2 Marine Precast Pile Cap Shells | 80 | 17-Oct-14 A 27-Oct-14 A | 50% 33.75% | 40 53 | 12-May-15 28-May-15 | 10-Mar-18 29-Jan-15 | 30-Apr-18 09-Apr-15 | 880 | 880 | 33% |
| | · | 80 | | | | | <u> </u> | | | jj | |
| Viaduct E5, | E6, E7 & E8 | 80 | 27-Oct-14 A | | | | <u> </u> | | | jj | |
| Viaduct E5, | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA | 0 | 27-Oct-14 A 06-Jun-15 | 33.75% 0% | 53 0 | 28-May-15 | 29-Jan-15 | 09-Apr-15 | -41 -137 | 0 | 33% |
| Viaduct E5, MBEC0120- PP7120 | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells | 0 60 | 27-Oct-14 A 06-Jun-15 06-Jun-15 | 33.75% 0% 0% | 53 0 60 | 28-May-15 | 29-Jan-15 15-Dec-14 15-Dec-14 | 09-Apr-15 02-Mar-15 | -41 -137 -137 | 0 | 33% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA 7 Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells 8 Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells | 0 | 27-Oct-14 A 06-Jun-15 | 33.75% 0% | 53 0 | 28-May-15 | 29-Jan-15 15-Dec-14 15-Dec-14 | 09-Apr-15 | -41 -137 | 0 | 33% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA 7 Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells 8 Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells ck Segments | 0 60 60 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 | 33.75% 0% 0% 0% | 53 0 60 60 | 28-May-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 | 09-Apr-15 02-Mar-15 | -41 -137 -137 -137 | 0 0 0 0 0 0 | 33% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA 7 Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells 8 Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells | 0 60 | 27-Oct-14 A 06-Jun-15 06-Jun-15 | 33.75% 0% 0% | 53 0 60 | 28-May-15 | 29-Jan-15 15-Dec-14 15-Dec-14 | 09-Apr-15 02-Mar-15 | -41 -137 -137 | 0 | 33% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA 7 Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells 8 Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells ck Segments Viaduct E2 - Pier Head Segment Casting | 0 60 60 0 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 | 33.75% 0% 0% 0% | 53 0 60 60 0 | 28-May-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 | 09-Apr-15 02-Mar-15 | -41 -137 -137 -137 -54 | 0 | 33% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells K Segments Viaduct E2 - Pier Head Segment Casting 3 E1: Commence Segment Casting on Approval of DDA | 0 60 60 0 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 | 33.75% 0% 0% 0% 0% | 53 0 60 60 0 | 28-May-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 06-Feb-15 | 09-Apr-15 02-Mar-15 | -41 -137 -137 -137 -54 -54 | 0 0 0 0 0 | 33% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- MBEE0130- | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells CK Segments Viaduct E2 - Pier Head Segment Casting 3 E1: Commence Segment Casting on Approval of DDA 3 E1: Commence Segment Delivery | 0 60 60 0 0 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 26-May-15 | 33.75% 0% 0% 0% 0% 0% | 53 0 60 60 0 0 0 | 28-May-15 17-Aug-15 17-Aug-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 06-Feb-15 | 09-Apr-15 02-Mar-15 02-Mar-15 | -41 -137 -137 -137 -54 -54 -80 -65 | 0 0 0 0 0 0 0 15 | 33% 0% 0% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- MBEE0130- MBEE0130- | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells K Segments Viaduct E2 - Pier Head Segment Casting 3 E1: Commence Segment Casting on Approval of DDA | 0 60 60 0 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 | 33.75% 0% 0% 0% 0% | 53 0 60 60 0 | 28-May-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 06-Feb-15 | 09-Apr-15 02-Mar-15 | -41 -137 -137 -137 -54 -80 | 0 0 0 0 0 | 33% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE0014 Viaduct E1 MBEE0120- MBEE0130- MBEE0130- Viaduct E2 | E6, E7 & E8 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells K Segments Viaduct E2 - Pier Head Segment Casting a E1: Commence Segment Casting on Approval of DDA E1: Commence Segment Delivery E1: Progressive Segment Manufacture & Delivery remaining segments (189 Nr) | 0 60 60 0 0 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 26-May-15 | 33.75% 0% 0% 0% 0% 0% | 53 0 60 60 0 0 0 | 28-May-15 17-Aug-15 17-Aug-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 06-Feb-15 07-Jan-15 04-Mar-15 | 09-Apr-15 02-Mar-15 02-Mar-15 | -41 -137 -137 -137 -54 -54 -80 -65 | 0 0 0 0 0 0 0 15 | 33% 0% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- MBEE0130- MBEE0130- Viaduct E2 MBEE0120- | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells K Segments Viaduct E2 - Pier Head Segment Casting a E1: Commence Segment Casting on Approval of DDA a E1: Commence Segment Delivery 5 E1: Progressive Segment Manufacture & Delivery remaining segments (189 Nr) 2 E2: Commence Segment Casting on Approval of DDA | 0 60 60 0 0 0 120 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 26-May-15 12-Jun-15 18-Apr-15 | 33.75% 0% 0% 0% 0% 0% 0% 0% | 53 0 60 60 0 0 0 120 0 0 | 28-May-15 17-Aug-15 17-Aug-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 04-Mar-15 04-Mar-15 04-Mar-15 | 09-Apr-15 02-Mar-15 02-Mar-15 | -41 -137 -137 -137 -54 -54 -80 -65 -80 | 0 0 0 0 0 0 15 0 | 33% 0% 0% 0% 0% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- MBEE0130- MBEE0130- Viaduct E2 MBEE0120- | E6, E7 & E8 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells K Segments Viaduct E2 - Pier Head Segment Casting a E1: Commence Segment Casting on Approval of DDA E1: Commence Segment Delivery E1: Progressive Segment Manufacture & Delivery remaining segments (189 Nr) | 0 60 60 0 0 0 120 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 26-May-15 12-Jun-15 | 33.75% 0% 0% 0% 0% 0% 0% | 53 0 60 60 0 0 0 120 | 28-May-15 17-Aug-15 17-Aug-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 06-Feb-15 07-Jan-15 04-Mar-15 | 09-Apr-15 02-Mar-15 02-Mar-15 | -41 -137 -137 -137 -54 -54 -80 -65 -80 | 0 0 0 0 0 0 15 0 | 33% 0% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- MBEE0130- Viaduct E2 MBEE0120- MBEE0120- | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells K Segments Viaduct E2 - Pier Head Segment Casting a E1: Commence Segment Casting on Approval of DDA a E1: Commence Segment Delivery 5 E1: Progressive Segment Manufacture & Delivery remaining segments (189 Nr) 2 E2: Commence Segment Casting on Approval of DDA | 0 60 60 0 0 0 120 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 26-May-15 12-Jun-15 18-Apr-15 | 33.75% 0% 0% 0% 0% 0% 0% 0% | 53 0 60 60 0 0 0 120 0 0 | 28-May-15 17-Aug-15 17-Aug-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 04-Mar-15 04-Mar-15 04-Mar-15 | 09-Apr-15 02-Mar-15 02-Mar-15 | -41 -137 -137 -137 -54 -54 -80 -65 -80 | 0 0 0 0 0 0 15 0 | 33% 0% 0% 0% 0% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- MBEE0130- Viaduct E2 MBEE0120- MBEE0120- | E6, E7 & E8 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells K Segments Viaduct E2 - Pier Head Segment Casting E1: Commence Segment Casting on Approval of DDA E1: Commence Segment Delivery E1: Progressive Segment Manufacture & Delivery remaining segments (189 Nr) E2: Commence Segment Delivery | 0 60 60 0 0 0 120 0 120 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 12-Jun-15 12-Jun-15 02-Jun-15 | 33.75% 0% 0% 0% 0% 0% 0% 0% 0% 0% | 53 0 60 60 0 0 0 120 0 0 0 0 0 0 | 28-May-15 28-May-15 17-Aug-15 17-Aug-15 04-Nov-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 06-Feb-15 04-Mar-15 04-Mar-15 04-Mar-15 | 09-Apr-15 02-Mar-15 02-Mar-15 31-Jul-15 | -41 -137 -137 -137 -54 -54 -80 -65 -80 -65 -80 | 0 0 0 0 0 0 15 0 15 0 | 33% 0% 0% 0% 0% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- MBEE0130- Viaduct E2 MBEE0130- MBEE0130- MBEE0130- Viaduct D | E6, E7 & E8 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells Esegments Viaduct E2 - Pier Head Segment Casting I - Commence Segment Casting on Approval of DDA E1: Commence Segment Delivery E1: Progressive Segment Casting on Approval of DDA E2: Commence Segment Delivery F2: Commence Segment Delivery F2: Progressive Segment Manufacture & Delivery remaining segments (358 Nr) | 0 60 60 0 0 0 120 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 26-May-15 12-Jun-15 12-Jun-15 02-Jun-15 | 33.75% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0 | 53 0 60 60 0 0 0 120 | 28-May-15 28-May-15 17-Aug-15 17-Aug-15 04-Nov-15 04-Nov-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 06-Feb-15 04-Mar-15 04-Mar-15 04-Mar-15 | 09-Apr-15 02-Mar-15 02-Mar-15 31-Jul-15 31-Jul-15 | -41 -137 -137 -137 -54 -54 -65 -80 -65 -80 | 0 0 0 0 0 0 15 0 15 0 0 0 15 0 0 15 | 33% 0% 0% 0% 0% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- MBEE0130- Viaduct E2 MBEE0130- MBEE0130- MBEE0130- Viaduct D | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells X Segments Viaduct E2 - Pier Head Segment Casting 3 E1: Commence Segment Casting on Approval of DDA 3 E1: Commence Segment Delivery 5 E1: Progressive Segment Manufacture & Delivery remaining segments (189 Nr) 2 E2: Commence Segment Delivery 7 E2: Progressive Segment Manufacture & Delivery remaining segments (358 Nr) Project ID: J3518DWPrE-M22 Tue | 0 60 60 0 0 0 120 120 120 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 12-Jun-15 18-Apr-15 02-Jun-15 02-Jun-15 02-Jun-15 | 33.75% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0 | 53 0 60 60 0 0 120 0 120 0 120 | 28-May-15 28-May-15 17-Aug-15 17-Aug-15 04-Nov-15 04-Nov-15 24-Oct-15 | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 04-Mar-15 04-Mar-15 04-Mar-15 24-Mar-15 24-Mar-15 | 09-Apr-15 02-Mar-15 02-Mar-15 31-Jul-15 | -41 -137 -137 -137 -54 -54 -80 -65 -80 -65 -80 | 0 0 0 0 0 15 0 15 0 0 0 35 sion C | 333% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% |
| Viaduct E5, MBEC0120- PP7120 PP7190 Precast Dec MBE00014 Viaduct E1 MBEE0120- MBEE0130- Viaduct E2 MBEE0130- MBEE0130- MBEE0130- Viaduct D | E6, E7 & E8 5 E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells X Segments Viaduct E2 - Pier Head Segment Casting 3 E1: Commence Segment Casting on Approval of DDA 3 E1: Commence Segment Delivery 5 E1: Progressive Segment Manufacture & Delivery remaining segments (189 Nr) 2 E2: Commence Segment Delivery 7 E2: Progressive Segment Manufacture & Delivery remaining segments (358 Nr) Project ID: J3518DWPrE-M22 Tue | 0 60 60 0 0 120 0 120 120 | 27-Oct-14 A 06-Jun-15 06-Jun-15 06-Jun-15 18-Apr-15 18-Apr-15 26-May-15 12-Jun-15 12-Jun-15 02-Jun-15 | 33.75% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0 | 53 0 60 60 0 0 120 0 120 120 120 | 28-May-15 17-Aug-15 17-Aug-15 17-Aug-15 04-Nov-15 04-Nov-15 24-Oct-15 Connection | 29-Jan-15 15-Dec-14 15-Dec-14 15-Dec-14 15-Dec-14 06-Feb-15 04-Mar-15 04-Mar-15 04-Mar-15 24-Mar-15 24-Mar-15 | 09-Apr-15 02-Mar-15 02-Mar-15 31-Jul-15 31-Jul-15 19-Aug-15 | -41 -137 -137 -137 -54 -54 -65 -80 -65 -80 | 0 0 0 0 0 15 0 15 0 0 35 sion C | 33% 0% 0% 0% 0% 0% 0% 0% |



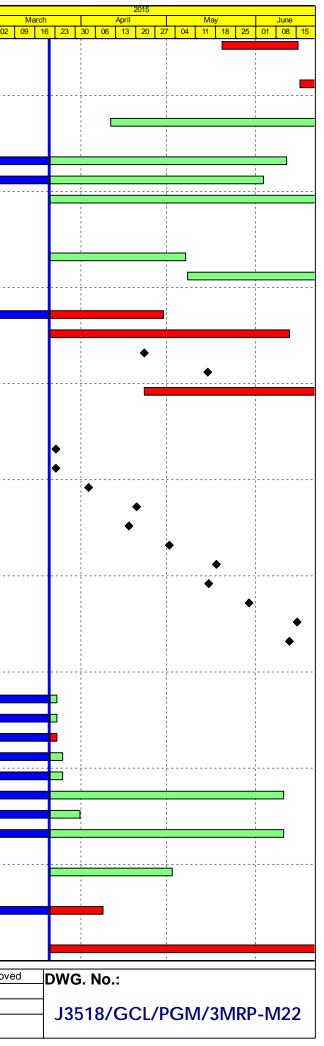
| | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|-----------------------------|---|---------------|--------------------------------|------------------------|---------------|----------------------------------|------------------------|------------------------|-------------|------------|------------------------|
| Precast Pile (| Caps | | | | | | II | | | | |
| MBDC0130-8 | D: Progressive Pile Cap Shell Manufacture & Delivery remaining shells | 90 | 07-Dec-14 A | 42.22% | 52 | 27-May-15 | 09-Feb-15 | 17-Apr-15 | -32 | 868 | 42.8% |
| Precast Deck | k Segments | | | | 2 | | | | | | |
| MBDE0120 | D: Commence Segment Casting on Approval of DDA | 0 | 30-Apr-15 | 0% | 0 | | 21-Jan-15 | | -78 | 0 | 0% |
| MBDE0130-1 | D: Commence Pier Head Segment Delivery | 0 | 06-Jun-15 | 0% | 0 | | 03-Jul-15 | | 21 | 0 | 0% |
| MBDE0130-5 | D: Progressive Pier Head Segment Manufacture & Delivery | 107 | 06-Jun-15 | 0% | 107 | 13-Oct-15 | 03-Jul-15 | 07-Nov-15 | 21 | 23 | 0% |
| /iaduct C | | | | | | | | | | | |
| Precast Pile | Caps | | | | | | | | | | |
| MBCC0120 | C: Commence Pile Cap Shell Casting on Approval of DDA | 0 | 21-Mar-15 | 0% | 0 | | 17-Jan-15 | | -51 | 0 | 0% |
| MBCC0130 | C: Commence Pile Cap Shell Delivery | 0 | 22-May-15 | 0% | 0 | | 18-Mar-15 | | -51 | 0 | 0% |
| MBCC0130-1 | C: Progressive Pile Cap Shell Manufacture & Delivery remaining shells | 80 | 22-May-15 | 0% | 80 | 26-Aug-15 | 18-Mar-15 | 27-Jun-15 | -51 | 0 | 0% |
| PP7490 | Production of initial Viaduct C Marine Precast Pile Cap Shells | 38 | 21-Mar-15 | 0% | 38 | 09-May-15 | 21-Jan-15 | 10-Mar-15 | -48 | 0 | 0% |
| /iaduct A | | | | | | | | | | | |
| Precast Pile | Caps | | , | | | | | | | | |
| MBAC0120 | A: Commence Pile Cap Shell Casting on Approval of DDA | 0 | 21-Mar-15 | 0% | 0 | | 02-Sep-15 | | 133 | 0 | 0% |
| MBAC0130 | A: Commence Pile Cap Shell Delivery | 0 | 22-May-15 | 0% | 0 | | 11-Dec-15 | | 168 | 30 | 0% |
| PP7570 | Production of initial Viaduct A Marine Precast Pile Cap Shells | 40 | 11-May-15 | 0% | 40 | 27-Jun-15 | 02-Sep-15 | 20-Oct-15 | 95 | 0 | 0% |
| arapets | | | | | | , | | | | | |
| IBEE0090 | Approval of DDA to start Precast Parapets/Barriers Casting | 0 | 01-Apr-15 | 0% | 0 | | 16-Oct-15 | | 160 | 31 | 0% |
| P6010 | Procure Sub-Contractor for Precast Parapets/Barriers | 40 | 21-Mar-15 | 0% | 40 | 12-May-15 | 28-Aug-15 | 15-Oct-15 | 129 | 0 | 0% |
| P6011 | Precast Parapets/Barriers Detail Design & Procure Moulds | 120 | 13-May-15 | 0% | 120 | 05-Oct-15 | 16-Oct-15 | 11-Mar-16 | 129 | 0 | 0% |
| P6011-02 | Viaduct B - Precast Parapets/Barriers Production & Delivery | 120 | 13-May-15 | 0% | 120 | 05-Oct-15 | 12-Feb-16 | 09-Jul-16 | 224 | 62 | 0% |
| P6011-03 | Viaduct C - Precast Parapets/Barriers Production & Delivery | 120 | 13-May-15 | 0% | 120 | 05-Oct-15 | 16-Dec-15 | 17-May-16 | 180 | 0 | 0% |
| P6011-04 | Viaduct D - Precast Parapets/Barriers Production & Delivery | 120 | 13-May-15 | 0% | 120 | 05-Oct-15 | 10-Dec-15 | 10-May-16 | 175 | 0 | 0% |
| P6011-05 | Viaduct E - Precast Parapets/Barriers Production & Delivery | 180 | 13-May-15 | 0% | 180 | 15-Dec-15 | 16-Oct-15 | 27-May-16 | 129 | 173 | 0% |
| P6011-06 | Viaduct F - Precast Parapets/Barriers Production & Delivery | 120 | 13-May-15 | 0% | 120 | 05-Oct-15 | 28-Jan-16 | 27-Jun-16 | 214 | 275 | 0% |
| aterials | | | 04 M 45 | 00/ | | 40.1.1.45 | | 00 NL 45 | | | |
| P7010 | Procure Sub-contractor for Signs & Street Furniture | 90 | 21-Mar-15 | 0% | 90 | 13-Jul-15 | 24-Jul-15 | 09-Nov-15 | 99 | 0 | 0% |
| I-Piles | | 70 | 01 Mar 45 | 001 | 70 | 47 1 45 | 00 1 45 | 00.0.445 | 100 | | 00/ |
| PP7550 | Procurement of Viaduct A Socketted H-Piles | 70 | 21-Mar-15 | 0% | 70 | 17-Jun-15 | 29-Jul-15 | 20-Oct-15 | 103 | 0 | 0% |
| Reinforceme | nt | | | | | | | | | | |
| Bored Piles PP7100 | Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E5 & E6 Piles | 105 | 07-Jul-14 A | 40.54% | 110 | 05-Aug-15 | 16 Oct 14 | 28-Feb-15 | 100 | 810 | 40% |
| PP7100 PP7170 | | 185 | | | 110 | - | 16-Oct-14 15-Dec-14 | | -128 | 810 | 40% |
| PP7170 PP7240 | Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E7 & E8 Piles Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E2 Piles | 185 | 07-Jul-14 A 15-Apr-14 A | 40.54% 50.94% | 110 52 | 27-May-15 | 06-Dec-14 | 05-May-15 09-Feb-15 | -77 -84 | 810 133 | 40% 50% |
| PP7240 PP7380 | Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E2 Piles | 25 | 28-Jul-14 A | 68% | 8 | 30-Mar-15 | 08-Jun-15 | 16-Jun-15 | -04 61 | 6 | 68% |
| PP7460 | Rebar - Cut, Bend & Fabricate File Cage for Viaduct D Files | 35 | 18-Aug-14 A | 28.57% | 25 | 23-Apr-15 | 10-Feb-15 | 14-Mar-15 | -31 | 0 | 28% |
| PP7540 | Rebar - Cut, Bend & Fabricate File Cage for Viaduct C Files Rebar - Cut, Bend & Fabricate File Cage for Viaduct A Piles | 21 | 12-Aug-14 A | 14.29% | 18 | 15-Apr-15 | 04-Feb-15 | 28-Feb-15 | -31 | 6 | 14% |
| PP7620 | Rebar - Cut, Bend & Fabricate File Cage for Viaduct A Files Rebar - Cut, Bend & Fabricate File Cage for Viaduct F1 & F3 Files | 61 | 21-Mar-15 | 0% | 61 | 06-Jun-15 | 17-Dec-14 | 04-Mar-15 | -35 | 0 | 0% |
| PP7690 | Rebar - Cut, Bend & Fabricate File Cage for Viaduct F 2, F4 & F5 Piles | 73 | 21-Mar-15 | 0% | 73 | 22-Jun-15 | 14-Jan-15 | 16-Apr-15 | -54 | 0 | 0% |
| Marine Pile C | | 10 | 21 100 10 | 070 | 10 | 22 001110 | | 107.0110 | 04 | Ű | 070 |
| PP7110 | Rebar - Cut, Bend & Fabricate for Viaduct E5 & E6 Pile Caps | 245 | 21-Mar-15 | 0% | 245 | 16-Jan-16 | 16-Oct-14 | 14-Aug-15 | -128 | 0 | 0% |
| PP7180 | Rebar - Cut, Bend & Fabricate for Viaduct E7 & E8 Pile Caps | 102 | 21-Mar-15 | 0% | 102 | 27-Jul-15 | 15-Dec-14 | 24-Apr-15 | -77 | 0 | 0% |
| PP7250 | Rebar - Cut, Bend & Fabricate for Viaduct E2 Pile Caps | 185 | 21-Mar-15 | 0% | 185 | 04-Nov-15 | 06-Dec-14 | 27-Jul-15 | -84 | 0 | 0% |
| PP7320 | Rebar - Cut, Bend & Fabricate for Viaduct E2 File Caps | 67 | 11-Dec-14 A | 7.46% | 62 | 08-Jun-15 | 26-Nov-14 | 09-Feb-15 | -93 | 0 | 7% |
| PP7400 | Rebar - Cut, Bend & Fabricate for Viaduct D Marine Pile Caps | 47 | 18-Dec-14 A | 6.38% | 44 | 16-May-15 | 06-Mar-18 | 30-Apr-18 | 876 | 876 | 6% |
| PP7480 | Rebar - Cut, Bend & Fabricate for Viaduct D Marine File Caps | 42 | 10-Apr-15 | 0% | 42 | 30-May-15 | 08-Mar-18 | 30-Apr-18 | 865 | 865 | 0% |
| PP7560 | Rebar - Cut, Bend & Fabricate for Viaduct & Marine Pile Caps | 36 | 23-Apr-15 | 0% | 36 | 05-Jun-15 | 07-Sep-15 | 20-Oct-15 | 113 | 76 | 0% |
| | | | · · | | | | ··• | | | | |
| Actual Work | Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_ | Tuen Mun - C | - | | | | | Date | Revi | | Checked B |
| | | 3-Month Polli | na Proarar | nmo (Pa | N & AN | nt /11 Pan | 661 | 09-Mar-15 | | טן | ט |
| Planned Bar Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CC | 3-Month Rolli | Progress as | • | - | - | | 31-Mar-15 | | v | /Y |



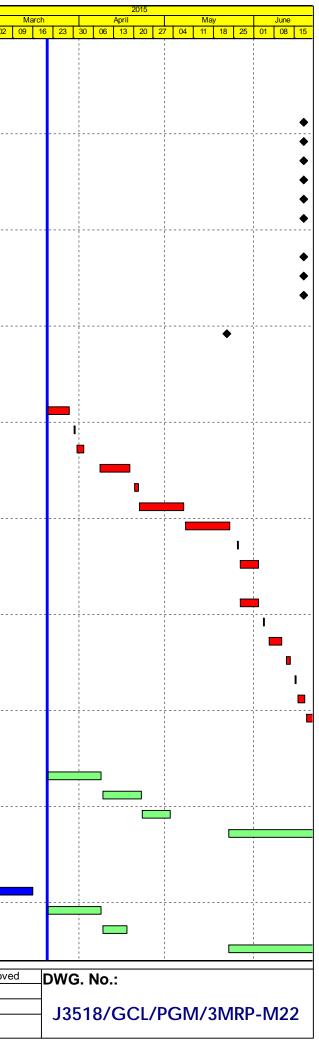
| | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|--|---|--|--|---|---|---|---|---|--|---|--|
| Marine Piers | s - Viaduct E | | I | | | | | | | | |
| PP7270 | Rebar - Cut, Bend & Fabricate for Viaduct E2 Piers | 180 | 23-Apr-15 | 0% | 180 | 26-Nov-15 | 07-Jan-15 | 18-Aug-15 | -84 | 31 | 0% |
| PP7340 | Rebar - Cut, Bend & Fabricate for Viaduct E1 Piers | 31 | 22-Feb-15 A | 40% | 19 | 08-Jun-15 | 19-Jan-15 | 09-Feb-15 | -93 | 1 | 0% |
| Land Pile Ca | ips | | | | | | | | | | |
| PP7630 | Rebar - Cut, Bend & Fabricate for Viaduct F1 & F3 Pile Caps | 47 | 08-Jun-15 | 0% | 47 | 03-Aug-15 | 08-Aug-15 | 03-Oct-15 | 51 | 0 | 0% |
| PP7752 | Rebar - Cut, Bend & Fabricate for Viaduct B Land Pile Caps | 26 | 16-Jul-14 A | 26.92% | 19 | 16-Apr-15 | 09-Apr-18 | 30-Apr-18 | 901 | 901 | 26% |
| PP7754 | Rebar - Cut, Bend & Fabricate for Viaduct D Land Pile Caps | 29 | 21-Mar-15 | 0% | 29 | 28-Apr-15 | 08-Jun-15 | 13-Jul-15 | 61 | 0 | 0% |
| PP7756 | Rebar - Cut, Bend & Fabricate for Viaduct C Land Pile Caps | 34 | 20-Apr-15 | 0% | 34 | 30-May-15 | 10-Mar-15 | 23-Apr-15 | -31 | 0 | 0% |
| PP7758 | Rebar - Cut, Bend & Fabricate for Viaduct A Land Pile Caps | 12 | 23-Apr-15 | 0% | 12 | 07-May-15 | 28-Feb-15 | 14-Mar-15 | -41 | 0 | 0% |
| | e Piers - Viaduct A, B, C, D & F | | | 0,0 | | or may re | 201.00.10 | | | , in the second | |
| PP7060 | Bending of Rebar for Viaduct B Piers | 64 | 11-Aug-14 A | 20.31% | 51 | 26-May-15 | 26-Feb-18 | 30-Apr-18 | 869 | 869 | 20% |
| PP7420 | Bending of Rebar for Viaduct D Piers | 71 | 23-Apr-15 | 0% | 71 | 18-Jul-15 | 08-Jul-15 | 29-Sep-15 | 61 | 75 | 0% |
| PP7500 | Bending of Rebar for Viaduct D Fiers | 78 | 01-Jun-15 | 0% | 78 | 01-Sep-15 | 13-Aug-15 | 14-Nov-15 | 61 | 0 | 0% |
| PP7580 | | | | | - | 04-Jun-15 | | | -41 | 0 | 0% |
| | Bending of Rebar for Viaduct A Piers | 23 | 08-May-15 | 0% | 23 | 04-Jun-15 | 14-Mar-15 | 15-Apr-15 | -41 | 0 | 0% |
| | works / Falseworks | 70 | 00.0 | 00% | 50 | 04 1 45 | 47 5 . 45 | 00 455 45 | 05 | 0.1 | 0.001/ |
| PP7070 | On-Site Preparation & Assembly of Pier Formwork for Viaduct B Piers | 70 | 03-Sep-14 A | 20% | 56 | 01-Jun-15 | 17-Feb-15 | 30-Apr-15 | -25 | 24 | 20% |
| PP7140 | On-Site Preparation & Assembly of Pier Formwork for Viaduct E5 & E6 Piers | 90 | 30-Apr-15 | 0% | 90 | 17-Aug-15 | 29-Nov-14 | 21-Mar-15 | -120 | 22 | 0% |
| PP7280 | On-Site Preparation & Assembly of Pier Formwork for Viaduct E2 Piers | 80 | 21-Mar-15 | 0% | 80 | 30-Jun-15 | 01-Nov-14 | 06-Feb-15 | -114 | 0 | 0% |
| PP7350 | On-Site Preparation & Assembly of Pier Formwork for Viaduct E1 Piers | 60 | 21-Mar-15 | 0% | 60 | 05-Jun-15 | 16-Dec-14 | 02-Mar-15 | -76 | 5 | 0% |
| PP7430 | On-Site Preparation & Assembly of Pier Formwork for Viaduct D Piers | 80 | 30-Apr-15 | 0% | 80 | 05-Aug-15 | 18-Apr-15 | 24-Jul-15 | -10 | 0 | 0% |
| PP7510 | On-Site Preparation & Assembly of Pier Formwork for Viaduct C Piers | 80 | 30-Apr-15 | 0% | 80 | 05-Aug-15 | 10-Jun-15 | 12-Sep-15 | 33 | 0 | 0% |
| PP7710 | On-Site Preparation & Assembly of Pier Formwork for Viaduct F2, F4 & F5 Pile Caps | 60 | 30-Apr-15 | 0% | 60 | 13-Jul-15 | 18-Apr-15 | 30-Jun-15 | -10 | 0 | 0% |
| PPPF02 | Design & Fabrication of Falsework / Formwork & Delivery | 120 | 20-Feb-14 A | 75% | 30 | 29-Apr-15 | 25-Oct-14 | 29-Nov-14 | -120 | 0 | 75% |
| Bearings | | | | | | | | | | | |
| Journigs | | | | | | | | | | | |
| Viaduct A | | | | | | | | | | | |
| | Preliminary Design of Bearings - Viaduct A | 50 | 28-Apr-15 | 0% | 50 | 27-Jun-15 | 27-Oct-15 | 23-Dec-15 | 149 | 0 | 0% |
| Viaduct A | Preliminary Design of Bearings - Viaduct A | 50 | 28-Apr-15 | 0% | 50 | 27-Jun-15 | 27-Oct-15 | 23-Dec-15 | 149 | 0 | 0% |
| Viaduct A PPBRA1 | Preliminary Design of Bearings - Viaduct A Preliminary Design of Bearings - Viaduct C | 50 50 | 28-Apr-15 22-Dec-14 A | 0% 40% | 50 30 | 27-Jun-15 29-Apr-15 | 27-Oct-15 16-Dec-14 | 23-Dec-15 22-Jan-15 | 149 -76 | 0 | 0% |
| Viaduct A PPBRA1 Viaduct C | | | | | | | | | | | |
| Viaduct A PPBRA1 Viaduct C PPBRC1 | Preliminary Design of Bearings - Viaduct C | 50 | | 40% | 30 | 29-Apr-15 | | 22-Jan-15 | -76 | 0 | 40% |
| Viaduct A PPBRA1 Viaduct C PPBRC1 PPBRC2 | Preliminary Design of Bearings - Viaduct C Confirmation of bearing assumption - Viaduct C | 50 0 | 22-Dec-14 A | 40% 0% | 30 0 | 29-Apr-15 29-Apr-15 | 16-Dec-14 | 22-Jan-15 22-Jan-15 | -76 -76 | 0 0 | 40% 0% |
| Viaduct A PPBRA1 Viaduct C PPBRC1 PPBRC2 PPBRC3 | Preliminary Design of Bearings - Viaduct C Confirmation of bearing assumption - Viaduct C Bearing design and submission - Viaduct C | 50 0 12 | 22-Dec-14 A 30-Apr-15 | 40% 0% 0% | 30 0 12 | 29-Apr-15 29-Apr-15 14-May-15 | 16-Dec-14 23-Jan-15 | 22-Jan-15 22-Jan-15 05-Feb-15 | -76 -76 -76 | 0 0 0 | 40% 0% 0% |
| Viaduct A PPBRA1 Viaduct C PPBRC1 PPBRC2 PPBRC3 PPBRC4 | Preliminary Design of Bearings - Viaduct C Confirmation of bearing assumption - Viaduct C Bearing design and submission - Viaduct C Design check by ICE - Viaduct C | 50 0 12 24 | 22-Dec-14 A 30-Apr-15 15-May-15 | 40% 0% 0% 0% | 30 0 12 24 | 29-Apr-15 29-Apr-15 14-May-15 12-Jun-15 | 16-Dec-14 23-Jan-15 06-Feb-15 | 22-Jan-15 22-Jan-15 05-Feb-15 09-Mar-15 | -76 -76 -76 -76 | 0 0 0 0 | 40% 0% 0% |
| Viaduct A PPBRA1 Viaduct C PPBRC1 PPBRC2 PPBRC3 PPBRC4 PPBRC5 PPBRC7 | Preliminary Design of Bearings - Viaduct C Confirmation of bearing assumption - Viaduct C Bearing design and submission - Viaduct C Design check by ICE - Viaduct C SO review & comment on design submission - Viaduct C | 50 0 12 24 36 | 22-Dec-14 A 30-Apr-15 15-May-15 13-Jun-15 | 40% 0% 0% 0% | 30 0 12 24 36 | 29-Apr-15 29-Apr-15 14-May-15 12-Jun-15 27-Jul-15 | 16-Dec-14 23-Jan-15 06-Feb-15 10-Mar-15 | 22-Jan-15 22-Jan-15 05-Feb-15 09-Mar-15 24-Apr-15 | -76 -76 -76 -76 -76 | 0 0 0 0 0 | 40% 0% 0% 0% |
| Viaduct A PPBRA1 Viaduct C PPBRC1 PPBRC2 PPBRC3 PPBRC4 PPBRC5 PPBRC7 | Preliminary Design of Bearings - Viaduct C Confirmation of bearing assumption - Viaduct C Bearing design and submission - Viaduct C Design check by ICE - Viaduct C SO review & comment on design submission - Viaduct C | 50 0 12 24 36 | 22-Dec-14 A 30-Apr-15 15-May-15 13-Jun-15 | 40% 0% 0% 0% | 30 0 12 24 36 | 29-Apr-15 29-Apr-15 14-May-15 12-Jun-15 27-Jul-15 | 16-Dec-14 23-Jan-15 06-Feb-15 10-Mar-15 | 22-Jan-15 22-Jan-15 05-Feb-15 09-Mar-15 24-Apr-15 | -76 -76 -76 -76 -76 | 0 0 0 0 0 | 40% 0% 0% 0% |
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| Viaduct A PPBRA1 Viaduct C PPBRC1 PPBRC2 PPBRC3 PPBRC4 PPBRC5 PPBRC7 Viaduct D PPBRD4 | Preliminary Design of Bearings - Viaduct C Confirmation of bearing assumption - Viaduct C Bearing design and submission - Viaduct C Design check by ICE - Viaduct C SO review & comment on design submission - Viaduct C Manufacture of Bearing - Viaduct C Design check by ICE - Viaduct C Design check by ICE - Viaduct C | 50 0 12 24 36 54 24 | 22-Dec-14 A 30-Apr-15 15-May-15 13-Jun-15 13-Jun-15 20-Dec-14 A | 40% 0% 0% 0% 0% 20.83% | 30 0 12 24 36 54 19 | 29-Apr-15 29-Apr-15 14-May-15 12-Jun-15 27-Jul-15 17-Aug-15 16-Apr-15 | 16-Dec-14 23-Jan-15 06-Feb-15 10-Mar-15 10-Mar-15 | 22-Jan-15 22-Jan-15 05-Feb-15 09-Mar-15 24-Apr-15 16-May-15 25-Feb-15 | -76 -76 -76 -76 -76 -76 -76 -76 -39 | 0 0 0 0 0 0 | 40% 0% 0% 0% 0% 20% 0% |
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| Viaduct A PPBRA1 Viaduct C PPBRC1 PPBRC2 PPBRC3 PPBRC4 PPBRC5 PPBRC7 Viaduct D PPBRD4 PPBRD4 PPBRD5 PPBRD5 PPBRD5 PPBRD5 PPBRD5 PPBRD5 PPBRD5 PPBRD5 PPBRD3 PPBRE2 PPBRE3 PPBRE4 | Preliminary Design of Bearings - Viaduct C Confirmation of bearing assumption - Viaduct C Bearing design and submission - Viaduct C Design check by ICE - Viaduct C SO review & comment on design submission - Viaduct C Manufacture of Bearing - Viaduct C Design check by ICE - Viaduct D SO review & comment on design submission - Viaduct D Bearing Design Amendment & re-issue - Viaduct D Bearing Design Amendment & re-issue - Viaduct D Confirmation of bearing assumption - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing design and submission - Viaduct E (E1, E2, E5, E6, E7 & E8) Design check by ICE - Viaduct E (E1, E2, E5, E6, E7 & E8) | 50 0 12 24 36 54 24 36 12 24 36 12 54 0 0 12 24 | 22-Dec-14 A 30-Apr-15 15-May-15 13-Jun-15 13-Jun-15 20-Dec-14 A 17-Apr-15 01-Jun-15 17-Apr-15 06-Jan-14 A 06-Jun-14 A | 40% 0% 0% 0% 0% 20.83% 0% 20.83% 0% 0% 0% 0% 0% 16.67% | 30 0 12 24 36 54 19 36 12 54 54 0 4 20 | 29-Apr-15 29-Apr-15 14-May-15 12-Jun-15 27-Jul-15 17-Aug-15 17-Aug-15 30-May-15 30-May-15 22-Jun-15 22-Jun-15 25-Mar-15 17-Apr-15 | 16-Dec-14 23-Jan-15 06-Feb-15 10-Mar-15 10-Mar-15 10-Mar-15 26-Feb-15 26-Feb-15 26-Feb-15 26-Feb-15 | 22-Jan-15 22-Jan-15 05-Feb-15 09-Mar-15 24-Apr-15 16-May-15 25-Feb-15 13-Apr-15 05-May-15 05-May-15 30-Apr-18 30-Apr-18 | -76 -76 -76 -76 -76 -76 -76 -76 -39 -39 -39 -33 -39 -33 -39 -39 -39 -39 | 0 0 0 0 0 0 0 0 0 0 0 6 0 0 6 0 0 920 916 900 | 40% 0% 0% 0% 20% 20% 0% 0% 0% 0% |
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| Viaduct A PPBRA1 PPBRC1 PPBRC2 PPBRC3 PPBRC3 PPBRC4 PPBRC5 PPBRC5 PPBRC7 Viaduct D PPBRD4 PPBRD4 PPBRD5 PPBRD5 PPBRD6 PPBRD7 Viaduct E PPBRE3 PPBRE3 PPBRE3 PPBRE5 PPBRE5 PPBRE6 PPBRE5 PPBRE6 PPBRE7 PPBRE8 PPBRE8 PPBRE9 Bridge E1 | Preliminary Design of Bearings - Viaduct C Confirmation of bearing assumption - Viaduct C Bearing design and submission - Viaduct C Design check by ICE - Viaduct C SO review & comment on design submission - Viaduct C Manufacture of Bearing - Viaduct C Design check by ICE - Viaduct D SO review & comment on design submission - Viaduct D Bearing Design Amendment & re-issue - Viaduct D Bearing Design Amendment & re-issue - Viaduct D Manufacture of Bearing - Viaduct D Confirmation of bearing assumption - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing design and submission - Viaduct E (E1, E2, E5, E6, E7 & E8) Design check by ICE - Viaduct E (E1, E2, E5, E6, E7 & E8) SO review & comment on design submission - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing design and submission - Viaduct E (E1, E2, E5, E6, E7 & E8) SO review & comment on design submission - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing Design Amendment & re-issue - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing Design Amendment & re-issue - Viaduct E (E1, E2, E5, E6, E7 & E8) Manufacture of Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8) Manufacture of Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing Delivery - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing Delivery - Viaduct E (E1, E2, E5, E6, E7 | 50 0 12 24 36 54 24 36 12 24 36 12 54 0 12 24 36 12 24 36 12 24 36 12 24 36 12 24 36 12 | 22-Dec-14 A 30-Apr-15 15-May-15 13-Jun-15 13-Jun-15 20-Dec-14 A 20-Dec-14 A 17-Apr-15 01-Jun-15 17-Apr-15 06-Jan-14 A 06-Jun-14 A 10-Oct-14 A 06-May-15 02-Jun-14 A 30-Jun-14 A | 40% 0% 0% 0% 0% 20.83% 0% 20.83% 0% 66.67% 16.67% 16.67% 16.67% 5.56% 0% 5.56% 4.17% | 30 0 12 24 36 54 19 36 12 54 0 4 20 34 20 34 12 51 23 46 | 29-Apr-15 29-Apr-15 14-May-15 12-Jun-15 27-Jul-15 17-Aug-15 17-Aug-15 30-May-15 30-May-15 22-Jun-15 22-Jun-15 22-Mar-15 17-Apr-15 19-May-15 19-May-15 19-May-15 | 16-Dec-14 23-Jan-15 06-Feb-15 10-Mar-15 10-Mar-15 20-Mar-15 21-Apr-15 26-Feb-15 26-Feb-15 26-Feb-18 03-Mar-18 17-Apr-18 26-Feb-18 | 22-Jan-15 22-Jan-15 05-Feb-15 24-Apr-15 16-May-15 25-Feb-15 13-Apr-15 05-May-15 05-May-15 30-Apr-18 30-Apr-18 30-Apr-18 30-Apr-18 30-Apr-18 | -76 -76 -76 -76 -76 -76 -76 -76 -39 -39 -39 -39 -39 -39 -39 -39 -39 -39 | 0 0 0 0 0 0 0 0 0 0 0 0 920 916 900 916 900 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 40% 0% 0% 0% 20% 20% 0% 0% 65% 16% 5% 5% |
| Viaduct A PPBRA1 Viaduct C PPBRC1 PPBRC2 PPBRC3 PPBRC4 PPBRC5 PPBRC5 PPBRC7 Viaduct D PPBRD4 PPBRD4 PPBRD5 PPBRD5 PPBRD5 PPBRD7 Viaduct E PPBRE2 PPBRE3 PPBRE3 PPBRE3 PPBRE5 PPBRE5 PPBRE5 PPBRE5 PPBRE5 PPBRE5 PPBRE5 PPBRE5 PPBRE5 PPBRE5 | Preliminary Design of Bearings - Viaduct C Confirmation of bearing assumption - Viaduct C Bearing design and submission - Viaduct C Design check by ICE - Viaduct C SO review & comment on design submission - Viaduct C Manufacture of Bearing - Viaduct C Design check by ICE - Viaduct D SO review & comment on design submission - Viaduct D Bearing Design Amendment & re-issue - Viaduct D Manufacture of Bearing - Viaduct D Confirmation of bearing assumption - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing design and submission - Viaduct E (E1, E2, E5, E6, E7 & E8) Design check by ICE - Viaduct E (E1, E2, E5, E6, E7 & E8) Design check by ICE - Viaduct E (E1, E2, E5, E6, E7 & E8) SO review & comment on design submission - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing Design Amendment & re-issue - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing Design Amendment & re-issue - Viaduct E (E1, E2, E5, E6, E7 & E8) Manufacture of Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8) Testing Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8) Bearing Delivery - Viaduct E (E1, E2, E5, E6, E7 & E8) Project ID: J3518DWPrE-M22 I worst I2610 DMID OMDD Ordensing Mon | 50 0 12 24 36 54 24 36 12 36 12 54 0 12 24 36 12 54 24 36 12 54 48 en Mun - C | 22-Dec-14 A 30-Apr-15 15-May-15 13-Jun-15 13-Jun-15 20-Dec-14 A 20-Dec-14 A 17-Apr-15 01-Jun-15 17-Apr-15 06-Jan-14 A 06-Jan-14 A 10-Oct-14 A 10-Oct-14 A 30-Jun-14 A | 40% 0% 0% 0% 0% 20.83% 0% 0% 0% 0% 0% 66.67% 16.67% 16.67% 16.67% 5.56% 0% 5.56% 4.17% 4.17% | 30 0 12 24 36 54 19 36 12 54 0 4 20 34 20 34 20 34 12 51 23 46 51 | 29-Apr-15 29-Apr-15 12-Jun-15 27-Jul-15 27-Jul-15 17-Aug-15 16-Apr-15 30-May-15 22-Jun-15 22-Jun-15 25-Mar-15 17-Apr-15 25-May-15 26-May-15 26-May-15 19-May-15 39-May-15 | 16-Dec-14 23-Jan-15 06-Feb-15 10-Mar-15 10-Mar-15 21-Apr-15 26-Feb-15 21-Apr-15 26-Feb-18 07-Apr-18 07-Apr-18 26-Feb-18 17-Apr-18 26-Feb-18 03-Apr-18 | 22-Jan-15 22-Jan-15 05-Feb-15 09-Mar-15 24-Apr-15 16-May-15 25-Feb-15 13-Apr-15 05-May-15 05-May-15 30-Apr-18 30-Apr-18 30-Apr-18 30-Apr-18 30-Apr-18 | -76 -76 -76 -76 -76 -76 -76 -39 -39 -39 -33 -39 -33 -39 920 916 900 874 874 874 874 874 874 | 0 0 0 0 0 0 0 0 0 0 0 0 920 916 900 916 900 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 40% 0% 0% 0% 0% 20% 0% 0% 0% 65% 65% 5% 5% 5% 5% 5% 5% |



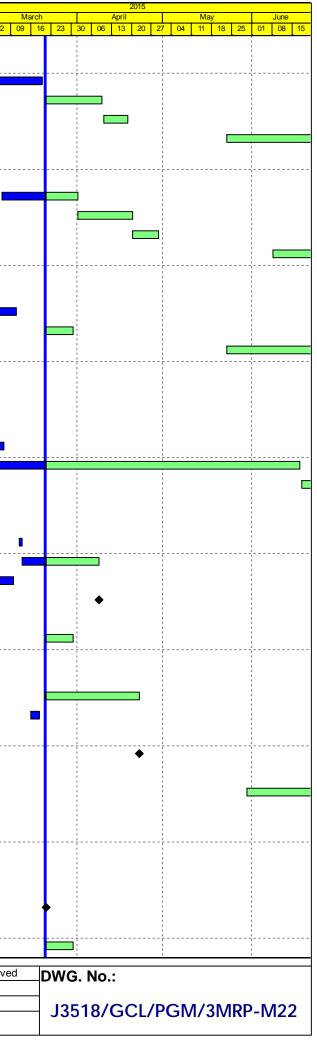
| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|-----------------------------|--|-------------|--------------------------------|------------------------|---------------|----------------------------------|---------------------------------------|-------------------|-----------------|------------|------------------------|----------|
| | | | | | D ann | | | | | | | 23 02 |
| PP7360 | Site preparation Bearings for Viaduct E1 | 18 | 20-May-15 | 0% | 18 | 15-Jun-15 | 04-Feb-15 | 27-Feb-15 | -79 | 0 | 0% | |
| Bridge E2 | | | | | | | | | | | | |
| PP7290 | Site preparation Bearings for Viaduct E2 | 18 | 16-Jun-15 | 0% | 18 | 11-Jul-15 | 28-Feb-15 | 20-Mar-15 | -79 | 0 | 0% | |
| Viaduct F | | | | | | | | | | | | |
| PPBRF1 | Preliminary Design of Bearings - Viaduct F | 70 | 11-Apr-15 | 0% | 70 | 06-Jul-15 | 17-Apr-15 | 11-Jul-15 | 5 | 0 | 0% | |
| Movement . | loints | | | | | | | | | | | |
| PPMJ01 | Design & Submission of MJ | 138 | 08-Feb-14 A | 52.9% | 65 | 11-Jun-15 | 04-Aug-15 | 20-Oct-15 | 108 | 855 | 30% | |
| PPMJ02-1 | MJ Design Approval | 96 | 26-May-14 A | 39.58% | 58 | 03-Jun-15 | 04-Aug-15 | 12-Oct-15 | 108 | 130 | 40% | <u> </u> |
| PPMJ02-2 | Manufacture & delivery of MJ | 188 | 21-Mar-15 | 0% | 188 | 07-Nov-15 | 04-Aug-15 | 19-Mar-16 | 108 | 0 | 0% | |
| Other Sub-C | ontract Procurement | | | | | | | | | | | |
| Pavement | | | | | | | | | | | | |
| PP7760-2 | Procure Pavement Viaduct Sub-Contractor | 36 | 21-Mar-15 | 0% | 36 | 07-May-15 | 08-Oct-15 | 19-Nov-15 | 162 | 0 | 0% | |
| PP7760-4 | Pavement Viaduct Sub-Contractor - Materials approvals & MS | 90 | 08-May-15 | 0% | 90 | 24-Aug-15 | 20-Nov-15 | 10-Mar-16 | 162 | 101 | 0% | |
| Structural H | ealth Monitoring System (SHMS) | | | | 1 | | | | | | | |
| PP7778 | SHMS - So approval of Final System Proposal | 30 | 16-Dec-14 A | 0% | 30 | 29-Apr-15 | 10-Nov-14 | 15-Dec-14 | -107 | 30 | 0% | |
| PP7780 | SHMS - Prepare Civil Work Provision | 66 | 21-Mar-15 | 0% | 66 | 12-Jun-15 | 06-Oct-14 | 22-Dec-14 | -137 | 0 | 0% | |
| PP7782 | SHMS - Submit Precast Pile Cap Shell SHMS details for E5-E6-E7-E8 | 0 | 23-Apr-15 | 0% | 0 | | 03-Nov-14 | | -137 | 0 | 0% | |
| PP7786 | SHMS - Submit Segment SHMS details for E5-E6-E7-E8 | 0 | 15-May-15 | 0% | 0 | | 24-Feb-15 | | -64 | 0 | 0% | |
| PP7788 | SHMS - FAT & Delivery for Bridge E5-E6-E7-E8 equipment | 54 | 23-Apr-15 | 0% | 54 | 27-Jun-15 | 01-Dec-14 | 05-Feb-15 | -113 | 14 | 0% | |
| | on / Mobilisations | | | | | | | | - | | | |
| | Mgt Submission & Approval | | | | | | | | | | | |
| TTM00640 | Earliest Implementation of TTM after TMLG Meeting No. 18 | 0 | 23-Mar-15 | 0% | 0 | Ì | 08-Dec-15 | | 186 | 20 | 0% | |
| TTM00650 | Send TTMs to SO & Govt Depts for TMLG Meeting No. 19 | 0 | | 0% | 0 | 23-Mar-15 | | 14-May-15 | 39 | 0 | 0% | |
| TTM00660 | TMLG Meeting No. 19 | 0 | | 0% | 0 | 03-Apr-15* | | 28-May-15 | 39 | 0 | 0% | |
| TTM00670 | Earliest Implementation of TTM after TMLG Meeting No. 19 | 0 | 20-Apr-15 | 0% | 0 | 00-Api-10 | 08-Dec-15 | 20-May-10 | 166 | 20 | 0% | |
| TTM00670 | Send TTMs to SO & Govt Depts for TMLG Meeting No. 20 | 0 | 20-Api-13 | 0% | 0 | 17-Apr-15 | 00-Dec-15 | 11-Jun-15 | 39 | 0 | 0% | |
| | | | | | - | · · · | | | | | | |
| TTM00690 | TMLG Meeting No. 20 | 0 | 40.14.45 | 0% | 0 | 01-May-15* | 00 D 45 | 25-Jun-15 | 39 | 0 | 0% | |
| TTM00700 | Earliest Implementation of TTM after TMLG Meeting No. 20 | 0 | 18-May-15 | 0% | 0 | 15.14 | 08-Dec-15 | 00 1 1 4 5 | 146 | 20 | 0% | |
| TTM00710 | Send TTMs to SO & Govt Depts for TMLG Meeting No. 21 | 0 | | 0% | 0 | 15-May-15 | | 09-Jul-15 | 39 | 0 | 0% | |
| TTM00720 | TMLG Meeting No. 21 | 0 | | 0% | 0 | 29-May-15* | | 23-Jul-15 | 39 | 0 | 0% | |
| TTM00730 | Earliest Implementation of TTM after TMLG Meeting No. 21 | 0 | 15-Jun-15 | 0% | 0 | | 08-Dec-15 | | 126 | 20 | 0% | |
| TTM00740 | Send TTMs to SO & Govt Depts for TMLG Meeting No. 22 | 0 | | 0% | 0 | 12-Jun-15 | | 06-Aug-15 | 39 | 0 | 0% | |
| Tree Felling | | | | | | | | | | | | |
| | rees in Contract | | | 1 | 1 | 1 | | | | | | |
| TR00200 | Tree transplant for Viaduct B - affecting Piers B11 to B17 | 90 | 17-Feb-14 A | 97.78% | 2 | 23-Mar-15 | 09-May-16 | 10-May-16 | 313 | 861 | 95% | |
| TR00220 | Tree transplant for Viaduct B - affecting Pier B18 & Abutment B | 90 | 17-Feb-14 A | 97.78% | 2 | 23-Mar-15 | 09-Jan-16 | 11-Jan-16 | 220 | 861 | 95% | |
| TR00240 | Tree transplant for Viaduct B - affecting realigned CTR | 90 | 17-Feb-14 A | 97.78% | 2 | 23-Mar-15 | 24-Feb-15 | 25-Feb-15 | -22 | 861 | 95% | |
| TR00250 | Tree felling for Viaduct B - affecting Slopes 9SE-B/F9, C8 & C9 | 48 | 05-May-14 A | 91.67% | 4 | 25-Mar-15 | 25-Apr-18 | 30-Apr-18 | 859 | 859 | 90% | |
| TR00260 | Tree felling for Viaduct C - affecting Piers C9 to Abutment C | 24 | 30-Jan-14 A | 83.33% | 4 | 25-Mar-15 | 25-Apr-18 | 30-Apr-18 | 859 | 859 | 70% | |
| TR00270 | Tree transplant for Viaduct C - affecting Piers C9 to Abutment C | 90 | 17-Feb-14 A | 35.56% | 58 | 10-Jun-15 | 12-Feb-18 | 30-Apr-18 | 805 | 805 | 35% | <u> </u> |
| TR00280 | Tree felling for Viaduct C - affecting realigned CTR | 30 | 30-Jan-14 A | 70% | 9 | 31-Mar-15 | 19-Apr-18 | 30-Apr-18 | 854 | 854 | 70% | <u> </u> |
| TR00290 | Tree transplant for Viaduct C - affecting realigned CTR | 90 | 17-Feb-14 A | 35.56% | 58 | 10-Jun-15 | 12-Feb-18 | 30-Apr-18 | 805 | 805 | 35% | _ |
| Site Set Up f | or Works Area 3 and Site Offices along CEDD Access Road | | | , | | | | | | | , | |
| PR30030 | Works Area 3-A1/3-A2 - Construct 1.5m steel access bridge | 30 | 21-Mar-15 | 0% | 30 | 02-May-15 | 20-Mar-18 | 30-Apr-18 | 833 | 833 | 0% | |
| Temporary V | /orking Platform at North Lantau | 1 | 1 | J | | | , , , , , , , , , , , , , , , , , , , | | 1 | | | |
| PR08080 | Inst.Unloading Frame incl. T&C for seg.lift (incl. Load Test) | 15 | 24-Oct-14 A | 20% | 12 | 08-Apr-15 | 29-Dec-14 | 12-Jan-15 | -67 | 0 | 20% | |
| Unloading J | etty at HKBCF | | | | | | | | | | | |
| PR09010 | Unloading Jetty at HKBCF - Procurement of materials and lifting gantry | 85 | 21-Mar-15 | 0% | 85 | 20-Jul-15 | 12-Nov-14 | 25-Feb-15 | -105 | 0 | 0% | |
| | | | | | | | | | | | | |
| Actual Work | Lawards 12540 DW/D 2MDD Cubrainsian M00 | | hek Lap Kok I | | | | | Date 09-Mar-15 | Revis | | Checked B | Appro |
| Planned Bar Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CC | | ng Program | • | - | - | jes) | 31-Mar-15 | | | /Y | |
| Milestone | Milestones, No Level of Effort. | (F | Progress as | of 21-M | ar-15 |) | | | ب ــــــ | | I | |
| | | | | | | | | | | | | |



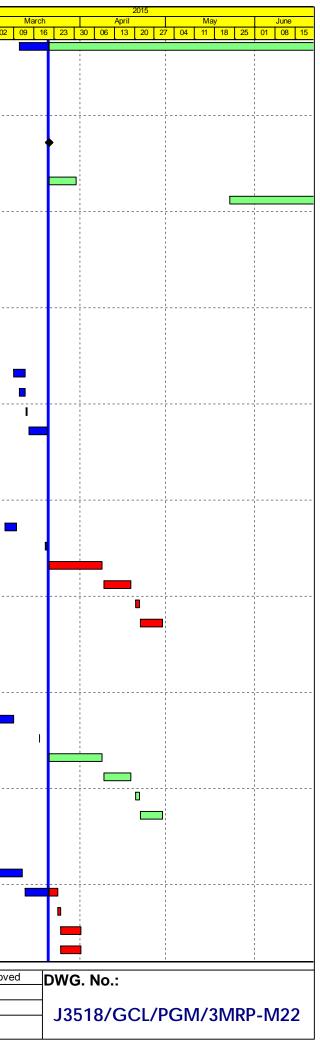
| Activity ID | | Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|-------------|--|----------------------------|--|----------------|--------------------------------|------------------------|---------------|----------------------------------|------------|------------------------|-------------|------------|------------------------|---------|
| CC | ONSTRUCTIO | DN | | | | | | | | | | | | 23 02 |
| | | SUBSTRUCTURE | | | - <u></u> | | | | | | | | | |
| | /iaduct A | | | | | | | | | | | | | |
| | Milestones - | Marine Foundation | | | | | | | | | | | | |
| | GFXX113-1 | A7 (A1e) - Start date fo | or piling | 0 | 18-Jun-15 | 0% | 0 | | 14-Dec-15 | | 148 | 0 | 0% | |
| | GFXX118-1 | A6 (A1f) - Start date for | | 0 | 18-Jun-15 | 0% | 0 | | 31-Oct-15 | | 111 | 69 | 0% | |
| | GFXX123-1 | A5 (A2a) - Start date fo | | 0 | 18-Jun-15 | 0% | 0 | | 13-Nov-15 | | 122 | 81 | 0% | |
| | GFXX128-1 | A4 (A2b) - Start date fo | , , | 0 | 18-Jun-15 | 0% | 0 | | 15-Mar-16 | | 221 | 69 | 0% | |
| | GFXX133-1 | A3 (A2c) - Start date fo | | 0 | 18-Jun-15 | 0% | 0 | | 14-Jan-16 | | 172 | 74 | 0% | |
| | GFXX138-1 | A2 (A2d) - Start date for | | 0 | 18-Jun-15 | 0% | 0 | | 14-Nov-15 | | 123 | 69 | 0% | |
| | | Land Foundation | , k | | | 0,0 | Ŭ | | | | | | | |
| | ZA00030 | A9 (A1c) - Start date fo | ar piling | 0 | 18-Jun-15 | 0% | 0 | İ | 12-Feb-16 | | 194 | 104 | 0% | |
| | ZA00040 | A10 (A1b) - Start date f | | 0 | 18-Jun-15 | 0% | 0 | | 22-Oct-15 | | 103 | 66 | 0% | |
| | ZA00040 | A11 (A1a) - Start date f | | 0 | 18-Jun-15 | 0% | 0 | | 15-Dec-15 | | 149 | 128 | 0% | |
| | | ATT (ATA) - Start date T | or pling | 0 | 18-3011-13 | 0 /8 | 0 | | 13-Dec-13 | | 149 | 120 | 078 | |
| | General ZA00010 | Vieduct A Approval of | Foundation DDA DP11.01 | 0 | 1 | 0% | 0 | 22-May-15 | | 17-Jun-15 | 10 | 0 | 0% | |
| | | Viaduci A - Approvaror | | 0 | | 0% | 0 | 22-10lay-15 | | 17-Jun-15 | 18 | 0 | 0% | |
| | Bridge A2 | | | | | | | | | | | | | |
| | Pier A1 (A2e) | | | | | | | | | | | | | |
| | Pile Cap Wo | | | - | 04 M 45 A | 00/ | _ | 00.14 45 | | 44 5 4 45 | 00 | 2 | | |
| | SA2E0070 | | Cap M2 - Inst. Floating Seal & Casing Head Steelwork | 7 | 21-Mar-15 A | 0% | 7 | 28-Mar-15 | 03-Feb-15 | 11-Feb-15 | -36 | 0 | 0% | |
| | SA2E0080 | , , , | Cap M2 - Install precast shell in position | 1 | 30-Mar-15 | 0% | 1 | 30-Mar-15 | 11-Feb-15 | 12-Feb-15 | -36 | 0 | 0% | |
| | SA2E0090 | . , | Cap M2 - Inst.Access & make Watertight | 3 | 31-Mar-15 | 0% | 3 | 02-Apr-15 | 12-Feb-15 | 16-Feb-15 | -36 | 0 | 0% | |
| | | | Cap M2 - Weld Fin plates/Plug Rebar & Concrete | 9 | 08-Apr-15 | 0% | 9 | 18-Apr-15 | 16-Feb-15 | 02-Mar-15 | -36 | 0 | 0% | |
| | SA2E0110 | A1 (A2e) - Marine Pile | Cap M2 - Dewater precast shell / Remove Lifting Frame | 2 | 20-Apr-15 | 0% | 2 | 21-Apr-15 | 02-Mar-15 | 04-Mar-15 | -36 | 0 | 0% | |
| | SA2E0120 | A1 (A2e) - Marine Pile | Cap M2 - Pile cut down | 12 | 22-Apr-15 | 0% | 12 | 07-May-15 | 04-Mar-15 | 18-Mar-15 | -36 | 0 | 0% | |
| | SA2E0130 | A1 (A2e) - Marine Pile | Cap M2 - Rebar fixing, inst.inserts etc | 12 | 08-May-15 | 0% | 12 | 23-May-15 | 18-Mar-15 | 01-Apr-15 | -36 | 0 | 0% | |
| | SA2E0140 | A1 (A2e) - Marine Pile | Cap M2 - Concreting | 1 | 26-May-15 | 0% | 1 | 26-May-15 | 01-Apr-15 | 02-Apr-15 | -36 | 0 | 0% | |
| | SA2E0164 | A1 (A2e) - Marine Pile | Cap M2 - Curing incl. CJ preparation | 6 | 27-May-15 | 0% | 6 | 02-Jun-15 | 02-Apr-15 | 14-Apr-15 | -36 | 0 | 0% | |
| | Pier Works | | | | | | | | | | | | | |
| | SA2E0170 | A1 (A2e) - Type 4B-MJ | Pier Temp. Support Platform | 6 | 27-May-15 | 0% | 6 | 02-Jun-15 | 02-Apr-15 | 14-Apr-15 | -36 | 0 | 0% | |
| | SA2E0172 | A1 (A2e) - Type 4B-MJ | Pier Scaffolding (1st Lift) | 1 | 04-Jun-15 | 0% | 1 | 04-Jun-15 | 14-Apr-15 | 16-Apr-15 | -36 | 1 | 0% | |
| | SA2E0180 | A1 (A2e) - Type 4B-MJ | Pier Rebarwork (1st Lift) | 3 | 06-Jun-15 | 0% | 3 | 10-Jun-15 | 16-Apr-15 | 20-Apr-15 | -37 | 0 | 0% | |
| | SA2E0190 | A1 (A2e) - Type 4B-MJ | Pier Formwork & Prep for Concreting (1st Lift) | 2 | 12-Jun-15 | 0% | 2 | 13-Jun-15 | 20-Apr-15 | 22-Apr-15 | -37 | 0 | 0% | |
| | SA2E0200 | A1 (A2e) - Type 4B-MJ | Pier Concreting (1st Lift) | 1 | 15-Jun-15 | 0% | 1 | 15-Jun-15 | 22-Apr-15 | 24-Apr-15 | -37 | 0 | 0% | |
| | SA2E0202 | A1 (A2e) - Type 4B-MJ | Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 16-Jun-15 | 0% | 2 | 18-Jun-15 | 24-Apr-15 | 27-Apr-15 | -37 | 0 | 0% | |
| | SA2E0210 | A1 (A2e) - Type 4B-MJ | Pier Scaffolding (2nd Lift) | 2 | 19-Jun-15 | 0% | 2 | 22-Jun-15 | 28-Apr-15 | 29-Apr-15 | -37 | 0 | 0% | |
| | Pier A2 (A2d) | 1 | | | , | | | | | | | | | |
| | Foundation | Works | | | | | | | | | | | | |
| | GFXX137 | A2 (A2d) - Inst.Temp.W | /orking Platform | 12 | 21-Mar-15* | 0% | 12 | 08-Apr-15 | 19-Jun-15 | 04-Jul-15 | 71 | 0 | 0% | |
| | GFXX138 | A2 (A2d) - Pre-drilling (| 2 nos) | 12 | 09-Apr-15 | 0% | 12 | 22-Apr-15 | 06-Jul-15 | 18-Jul-15 | 71 | 0 | 0% | |
| | GFXX138-2 | A2 (A2d) - Confirm Roo | ckhead Levels | 8 | 23-Apr-15 | 0% | 8 | 02-May-15 | 20-Jul-15 | 28-Jul-15 | 71 | 17 | 0% | |
| | GFXX139 | A2 (A2d) - Bored Piles | (2.20m dia. x 2 nos) | 90 | 23-May-15 | 0% | 90 | 08-Sep-15 | 29-Jul-15 | 13-Nov-15 | 54 | 0 | 0% | |
| | Pier A3 (A2c) | . , | | J | · · · · | | | · · | | | | | | |
| | Foundation | | | | | | | | | | | | | |
| | GFXX132 | A3 (A2c) - Inst.Temp.W | /orking Platform | 12 | 06-Feb-15 A | 100% | 0 | 16-Mar-15 A | | | | | 100% | į |
| | GFXX133 | A3 (A2c) - Pre-drilling (2 | 5 | 12 | 21-Mar-15 A | 0% | 12 | 08-Apr-15 | 26-Aug-15 | 08-Sep-15 | 127 | 0 | 0% | |
| | | A3 (A2c) - Confirm Roc | · | 8 | 09-Apr-15 | 0% | 8 | 17-Apr-15 | 09-Sep-15 | 17-Sep-15 | 127 | 29 | 0% | |
| | GFXX133-2 | A3 (A2c) - Bored Piles (| | 95 | 23-May-15 | 0% | 95 | 14-Sep-15 | 18-Sep-15 | 13-Jan-16 | 98 | 0 | 0% | |
| | | | | | | | | • | | | | | 070 | |
| | Actual Work | | Project ID: J3518DWPrE-M22 | Tuen Mun - C | - | | | | | Date | Revis | | | Approve |
| | Planned Bar | | Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CQ | 3-Month Rollin | | • • | - | - | es) | 09-Mar-15 31-Mar-15 | | D | B /Y | |
| • | Critical Bar Milestone | | Milestones, No Level of Effort. | (F | Progress as | of 21-M | ar-15 |) | | 51-IVIAI-15 | | | <u> </u> | |
| - | • | | | | | | | | | | | | | |



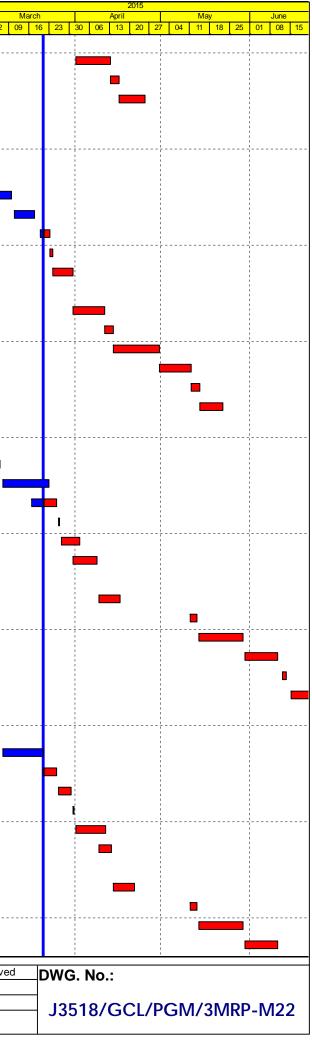
| tivity ID | Activity Name | | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|----------------------|---|---|--------|-------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|-------|
| Pier A4 (A2b) | | | | | | | | | | | | | | 23 02 |
| Foundation | | | | | | | | | | | | | | |
| GFXX127 | A4 (A2b) - Inst.Temp.V | Vorking Platform | | 12 | 26-Feb-15 A | 100% | 0 | 20-Mar-15 A | | | | | 100% | |
| GFXX128 | A4 (A2b) - Pre-drilling (| <u> </u> | | 13 | 21-Mar-15 | 0% | 13 | 09-Apr-15 | 17-Jun-15 | 03-Jul-15 | 69 | 0 | 0% | |
| | A4 (A2b) - Confirm Ro | · · · | | 8 | 10-Apr-15 | 0% | 8 | 18-Apr-15 | 04-Jul-15 | 13-Jul-15 | 69 | 28 | 0% | |
| GFXX129 | A4 (A2b) - Bored Piles | | | 90 | 23-May-15 | 0% | 90 | 08-Sep-15 | 14-Jul-15 | 29-Oct-15 | 41 | 0 | 0% | |
| Pier A5 (A2a) | . , | | | | 20 may 10 | 0,0 | | 00 000 10 | | 20 000 10 | | Ū | 0,0 | |
| Foundation | | | | | | | | | | | | | | |
| GFXX122 | A5 (A2a) - Inst.Temp.V | | | 13 | 06-Mar-15 A | 27% | 9 | 01-Apr-15 | 22-Jun-15 | 03-Jul-15 | 73 | 0 | 50% | |
| GFXX122 GFXX123 | A5 (A2a) - Pre-drilling (| - | | 12 | 01-Apr-15 | 0% | 12 | 20-Apr-15 | 04-Jul-15 | 17-Jul-15 | 73 | 0 | 0% | |
| | A5 (A2a) - Confirm Ro | | | 8 | 20-Apr-15 | 0% | 8 | 20-Apr-15 29-Apr-15 | 18-Jul-15 | 27-Jul-15 | 73 | 32 | 0% | |
| | . , | | | | • | | 90 | · · | | | 41 | 0 | 0% | |
| GFXX124 | A5 (A2a) - Bored Piles | (2.2011 dia. X 2 hos) | | 90 | 08-Jun-15 | 0% | 90 | 22-Sep-15 | 28-Jul-15 | 12-Nov-15 | 41 | 0 | 0% | |
| Pier A6 (A1f) | | | | | | | | | | | | | | |
| Foundation | | ~ . | | 10 | 00 M 45 A | 1000/ | • | 44.84 45.4 | | | | | 1000/ | |
| | A6 (A1f) - Pre-drilling (| , | | 12 | 03-Mar-15 A | 100% | 0 | 11-Mar-15 A | | | | | 100% | |
| | A6 (A1f) - Confirm Roc | | | 8 | 21-Mar-15 | 0% | 8 | 30-Mar-15 | 06-Jul-15 | 14-Jul-15 | 83 | 41 | 0% | |
| GFXX119 | A6 (A1f) - Bored Piles | (1.80m dia. x 3 nos) | | 90 | 23-May-15 | 0% | 90 | 08-Sep-15 | 15-Jul-15 | 30-Oct-15 | 42 | 0 | 0% | |
| Bridge A1 | | | | | | | | | | | | | | |
| Pier A7 (A1e) | | | | | | | | | | | | | | |
| Foundation | | | | | | | | | | | | | | |
| | A7 (A1e) - Pre-drilling | · · · · | | 12 | 12-Feb-15 A | 100% | 0 | 25-Feb-15 A | | | | | 100% | |
| GFXX113-2 | A7 (A1e) - Confirm Ro | ckhead Levels | | 8 | 26-Feb-15 A | 100% | 0 | 06-Mar-15 A | | | | | 100% | |
| GFXX114 | A7 (A1e) - Bored Piles | (2.20m dia. x 2 nos) | | 90 | 26-Feb-15 A | 22.22% | 70 | 17-Jun-15 | 19-Sep-15 | 12-Dec-15 | 148 | 0 | 20% | Ē |
| GFXX115 | A7 (A1e) - Sonic & Inte | rface Coring | | 12 | 18-Jun-15 | 0% | 12 | 03-Jul-15 | 14-Dec-15 | 29-Dec-15 | 148 | 0 | 0% | |
| Pier A8 (A1d) | | | | | | | | | | | | | | |
| Preliminary | Works for Land Piling | | | | | | | | | | | | | |
| GFXX281 | A8 (A1d) - Mobilise & S | Set up grouting equipment | | 24 | 12-Mar-15 A | 100% | 0 | 13-Mar-15 A | | | | | 100% | |
| GFXX281-1 | A8 (A1d) - Pre-grouting | g Works | | 24 | 13-Mar-15 A | 50% | 12 | 08-Apr-15 | 17-Apr-18 | 30-Apr-18 | 908 | 0 | 50% | |
| PA080020 | A8 (A1d) - Erect MTR | protective fence / Remove existing fence | | 12 | 26-Feb-15 A | 100% | 0 | 10-Mar-15 A | | | | | 100% | |
| PA080050 | A8 (A1d) - Complete C | ivil Preparation Works for piling to commence | | 0 | | 0% | 0 | 08-Apr-15 | | 30-Apr-18 | 851 | 851 | 0% | |
| Socketted H | -Pile installation | | | | | | | | | | | | | |
| GFXX297-1 | A8 (A1d) - Confirm Ro | ckhead Levels | | 8 | 21-Mar-15 | 0% | 8 | 30-Mar-15 | 10-Jul-15 | 18-Jul-15 | 87 | 87 | 0% | |
| Pier A9 (A1c) | 1 | | | | | | <u> </u> | | | | | | | |
| Preliminary | Works for Land Piling | | | | | | | | | | | | | |
| GFXX281-2 | A9 (A1c) - Pre-grouting | g Works | | 24 | 21-Mar-15 A | 0% | 24 | 22-Apr-15 | 29-Mar-18 | 30-Apr-18 | 896 | 0 | 0% | |
| PA090030 | A09 (A1c) - Erect MTR | protective fence | | 12 | 16-Mar-15 A | 100% | 0 | 19-Mar-15 A | | | | | 100% | |
| PA090050 | A9 (A1c) - Set up piling | platform | | 24 | 29-Jan-15 A | 100% | 0 | 04-Mar-15 A | | | | | 100% | |
| PA090060 | | vil preparation works for piling to commence | | 0 | | 0% | 0 | 22-Apr-15 | | 30-Apr-18 | 840 | 840 | 0% | |
| | -Pile installation | | | | | | | | | | | | | |
| . | A9 (A1c) - Install SH Pi | le (11 no.) | | 120 | 30-May-15 | 0% | 120 | 22-Oct-15 | 15-Sep-15 | 12-Feb-16 | 90 | 0 | 0% | |
| Pier A10 (A1b | , , , | | | | ee may re | 0,0 | | | 10 000 10 | | | Ū | 0,0 | |
| · · | Works for Land Piling | | | | | | | | | | | | | |
| | A10 (A1b) - Pregroutin | a Works | | 24 | 21-Feb-15 A | 100% | 0 | 21-Feb-15 A | | | | | 100% | |
| PA100040 | . , - | . Instru. & Baseline Monitoring | | 36 | 09-Feb-15 A | 100% | 0 | 21-Feb-15 A | | | | | 100% | |
| PA100040 PA100050 | A10 (A1b) - Install Geo A10 (A1b) - Set up pilir | | | | 09-Feb-15 A | 100% | 0 | 21-Feb-15 A | | | _ | | 100% | |
| | · · · · · · · · · · · · · · · · · · · | | | 24 | 03-1-60-13 A | | 0 | | | 30 Apr 10 | 960 | 862 | | |
| | . , . | civil preparation works for piling to commence | | 0 | | 0% | U | 21-Mar-15 | | 30-Apr-18 | 863 | 863 | 0% | |
| | -Pile installation A10 (A1b) - Confirm R | ockhead Levels | | 8 | 21-Mar-15 | 0% | 8 | 30-Mar-15 | 21-Apr-18 | 30-Apr-18 | 912 | 912 | 0% | |
| Actual Work | ! | Project ID: J3518DWPrE-M22 | Tuen M | Mun - Cł | nek Lap Kok L | .ink - Sou | thern C | Connection | 1 | Date | Revis | ion C | hecked | Appr |
| Planned Bar | | Layout: J3518-DWP-3MRP Submission - M22 | | | ng Program | | | | es) | 09-Mar-15 | | DI | | |
| Critical Bar | | Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort. | | | rogress as | | | - | | 31-Mar-15 | | W | Y | |
| Milestone | | | | ۲- | 0 | | | • | | | | | | |



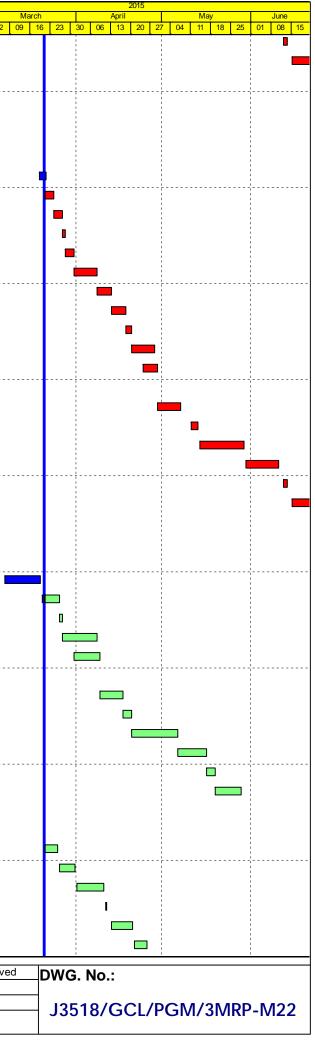
|) | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|---------------|--|--------------|--------------------------------|------------------------|---------------|----------------------------------|------------|------------------------|-------------|--|------------------------|
| GFXX288 | A10 (A1b) - Install SH Pile (8 no.) | 120 | 11-Mar-15 A | 15% | 102 | 27-Jul-15 | 19-Jun-15 | 20-Oct-15 | 71 | 0 | 15% |
| | a) & Abutment A | | | | | | | | | <u> </u> | |
| | Works for Land Piling | | | | | | | | | | |
| | A11 (A1a) - Pregrouting Works | 24 | 22-Feb-15 A | 100% | 0 | 22-Feb-15 A | | | | | 100% |
| PA110050 | A11 (A1a) - Set up piling platform | 24 | 09-Feb-15 A | 100% | 0 | 27-Feb-15 A | | | | | 100% |
| PA110060 | A11 (A1a) - Completion of civil preparation works for piling to commence | 0 | | 0% | 0 | 21-Mar-15 | | 28-Apr-15 | 27 | 0 | 0% |
| | -Pile installation | | | 0,0 | Ŭ | 21 | | _0 / p: 10 | | , under the second seco | 0,0 |
| | A11 (A1a) - Confirm Rockhead Levels | 8 | 21-Mar-15 | 0% | 8 | 30-Mar-15 | 09-Jun-15 | 17-Jun-15 | 62 | 41 | 0% |
| GFXX287 | A11 (A1a) - Install SH Pile (6 no.) | 149 | 23-May-15 | 0% | 149 | 19-Nov-15 | 18-Jun-15 | 14-Dec-15 | 21 | 0 | 0% |
| Viaduct B | | 140 | 20 May 10 | 070 | 140 | 10 100 10 | | | 21 | Ű | 070 |
| Bridge B3 | | | | | | | | | | | |
| | | | | | | | | | | | |
| Pier B2 (B3e) | | | | | | | | | | | |
| Pier Head Se | B2 (B3e) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 6 | 19-Feb-15 A | 100% | 0 | 20 Fab 15 A | | | | | 100% |
| | | 6 | 19-Feb-15A | 100% | 0 | 28-Feb-15 A | | | | | 100% |
| Pier B3 (B3d) | | | | | | | | | | | |
| Pier Head Se | | | | 4000/ | 0 | | | | | | 40000 |
| | B3 (B3d) - Pier Head Segment Lift & Fix (1 seg) | 2 | 25-Feb-15 A | 100% | 0 | 25-Feb-15 A | | | | | 100% |
| SB3D0374 | | 13 | 09-Mar-15 A | 100% | 0 | 13-Mar-15 A | | | | | 100% |
| SB3D0376 | | 8 | 11-Mar-15 A | 100% | 0 | 13-Mar-15 A | | | | | 100% |
| SB3D0378 | | 2 | 13-Mar-15 A | 100% | 0 | 13-Mar-15 A | | | | | 100% |
| SB3D0380 | | 6 | 14-Mar-15 A | 100% | 0 | 20-Mar-15 A | | | | | 100% |
| Pier B4 (B3c) | | | | | | | | | | | |
| Pier Works | | | | | | | | | | | |
| SB3C0340 | B4 (B3c) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding | 6 | 18-Feb-15 A | 100% | 0 | 02-Mar-15 A | | | | | 100% |
| Pier Head Se | | | | | | | | | | | |
| SB3C0370 | | 6 | 06-Mar-15 A | 100% | 0 | 10-Mar-15 A | | | | | 100% |
| SB3C0372 | B4 (B3c) - Pier Head Segment Lift & Fix (1 seg) | 2 | 20-Mar-15 A | 100% | 0 | 20-Mar-15 A | | | | | 100% |
| SB3C0374 | B4 (B3c) - Pier Head Segment Diaphragm - Rebar | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 02-Mar-15 | 16-Mar-15 | -17 | 0 | 0% |
| SB3C0376 | B4 (B3c) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting | 8 | 09-Apr-15 | 0% | 8 | 18-Apr-15 | 16-Mar-15 | 25-Mar-15 | -17 | 0 | 0% |
| SB3C0378 | B4 (B3c) - Pier Head Segment Diaphragm - Concreting | 2 | 20-Apr-15 | 0% | 2 | 21-Apr-15 | 25-Mar-15 | 27-Mar-15 | -17 | 0 | 0% |
| SB3C0380 | B4 (B3c) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 6 | 22-Apr-15 | 0% | 6 | 29-Apr-15 | 08-Apr-15 | 16-Apr-15 | -11 | 0 | 0% |
| Pier B5 (B3b) | | | | | | | | | | | , |
| Pier Works | | | | | | | | | | | |
| SB3B0340 | B5 (B3b) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding | 6 | 13-Feb-15 A | 100% | 0 | 25-Feb-15 A | | | | | 100% |
| Pier Head Se | egments | | | | | | | | 1 | | |
| SB3B0370 | B5 (B3b) - Pier Head Segment - Temporary Platform | 6 | 02-Mar-15 A | 100% | 0 | 09-Mar-15 A | | | | | 100% |
| SB3B0372 | B5 (B3b) - Pier Head Segment Lift & Fix (1 seg) | 2 | 18-Mar-15 A | 100% | 0 | 18-Mar-15 A | | | | | 100% |
| SB3B0374 | B5 (B3b) - Pier Head Segment Diaphragm - Rebar | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 23-Mar-15 | 10-Apr-15 | 2 | 0 | 0% |
| SB3B0376 | B5 (B3b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting | 8 | 09-Apr-15 | 0% | 8 | 18-Apr-15 | 10-Apr-15 | 21-Apr-15 | 2 | 0 | 0% |
| SB3B0378 | B5 (B3b) - Pier Head Segment Diaphragm - Concreting | 2 | 20-Apr-15 | 0% | 2 | 21-Apr-15 | 21-Apr-15 | 24-Apr-15 | 2 | 0 | 0% |
| SB3B0380 | B5 (B3b) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 6 | 22-Apr-15 | 0% | 6 | 29-Apr-15 | 02-May-15 | 09-May-15 | 8 | 0 | 0% |
| Pier B6 (B3a) | | | · · · | | | | | | | | |
| Pier Works | | | | | | | | | | | |
| SB3A0310 | B6 (B3a) - Type 4B-MJ Pier Head Rebarwork | 5 | 23-Feb-15 A | 100% | 0 | 12-Mar-15 A | | | | | 100% |
| SB3A0320 | B6 (B3a) - Type 4B-MJ Pier Head Formwork & Prep for Concreting | 5 | 13-Mar-15 A | 50% | 3 | | 13-Feb-15 | 16-Feb-15 | -28 | 0 | 70% |
| SB3A0330 | B6 (B3a) - Type 4B-MJ Pier Head Concreting | 1 | 24-Mar-15 | 0% | 1 | | 17-Feb-15 | 17-Feb-15 | -28 | 0 | 0% |
| SB3A0340 | B6 (B3a) - Type 4B-MJ Pier Head Curing/Striking of Forms/Remove Scaffolding | 6 | 25-Mar-15 | 0% | 6 | 01-Apr-15 | 18-Feb-15 | 27-Feb-15 | -28 | 0 | 0% |
| SB3A0350 | B6 (B3a) - Type 4B-Bearing Plinth | 6 | 25-Mar-15 | 0% | 6 | 01-Apr-15 | 18-Feb-15 | 27-Feb-15 | -28 | 0 | 0% |
| | | | | | | • | 10 1 00 10 | | | | 0.10 |
| Actual Work | Project ID: J3518DWPrE-M22 | Tuen Mun - C | - | | | | | Date | Revis | | Checked |
| Planned Bar | Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CO | Month Rolli | | • | - | - | es) | 09-Mar-15 31-Mar-15 | | | B VY |
| Critical Bar | Milestones, No Level of Effort. | /F | Progress as | of 21-M | lar_15 | ۱ ۱ | | 51-IVIAI-15 | | V | V (|



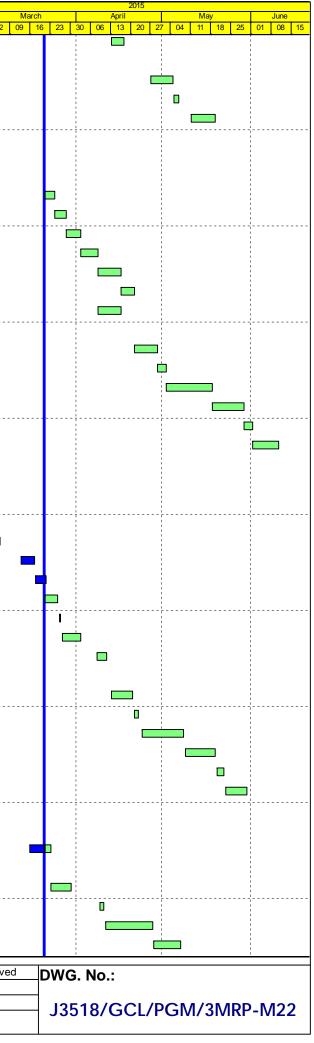
| | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|-----------------------------|--|----------------|--------------------------------|------------------------|---------------|----------------------------------|-------------|-------------|-------------|------------|--|
| Pier Head Se | egments | | | | | | | | | | <u> </u> |
| SB3A0370 | B6 (B3a) - Pier Head Segment - Temporary Platform | 6 | 01-Apr-15 | 0% | 6 | 13-Apr-15 | 28-Feb-15 | 06-Mar-15 | -28 | 0 | 0% |
| SB3A0371 | B6 (B3a) - Pier Head Segment bearings | 2 | 13-Apr-15 | 0% | 2 | 16-Apr-15 | 07-Mar-15 | 09-Mar-15 | -28 | 0 | 0% |
| SB3A0372 | B6 (B3a) - Pier Head Segment Lift & Temp Support (2 seg) | 7 | 16-Apr-15 | 0% | 7 | 25-Apr-15 | 10-Mar-15 | 17-Mar-15 | -28 | 0 | 0% |
| ridge B2 | | | | | | | | | | | |
| Pier B7 (B2f) Pier Works | | | | | | | | | | | |
| SB2F0242 | B7 (B2f) - Type 4B Pier Curing & Striking of Forms ind. CJ prep (2nd Lift) | 2 | 17-Feb-15 A | 100% | 0 | 25-Feb-15 A | | | | | 100% |
| SB2F0300 | B7 (B2f) - Type 4B Pier Head Scaffolding | 4 | 26-Feb-15 A | 100% | 0 | 10-Mar-15 A | | | | | 100% |
| SB2F0310 | B7 (B2f) - Type 4B Pier Head Rebarwork | 5 | 11-Mar-15 A | 100% | 0 | 18-Mar-15 A | | | | | 100% |
| SB2F0320 | B7 (B2f) - Type 4B Pier Head Formwork & Prep for Concreting | 4 | 20-Mar-15 A | 60% | 2 | 23-Mar-15 | 02-Jan-15 | 03-Jan-15 | -64 | 0 | 60% |
| SB2F0330 | B7 (B2f) - Type 4B Pier Head Concreting | | 23-Mar-15A | 0% | 1 | 24-Mar-15 | 05-Jan-15 | 05-Jan-15 | -64 | 0 | 0% |
| | B7 (B2f) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding | 6 | 23-Mar-15 | 0% | 6 | 31-Mar-15 | 06-Jan-15 | 12-Jan-15 | -64 | 0 | 0% |
| Pier Head Se | | 0 | 24-IVIAI - 15 | 0% | 0 | 31-IVIAI-15 | 00-Jan-15 | 12-Jan-15 | -04 | 0 | 0% |
| SB2F0370 | B7 (B2f) - Pier Head Segment - Temporary Platform | 6 | 31-Mar-15 | 0% | 6 | 11-Apr-15 | 13-Jan-15 | 19-Jan-15 | -64 | 0 | 0% |
| SB2F0372 | B7 (B2f) - Pier Head Segment Lift & Fix (1 seg) | 2 | 11-Apr-15 | 0% | 2 | 14-Apr-15 | 20-Jan-15 | 21-Jan-15 | -64 | 0 | 0% |
| SB2F0374 | B7 (B2f) - Pier Head Segment Diaphragm - Rebar | 12 | 14-Apr-15 | 0% | 12 | 30-Apr-15 | 22-Jan-15 | 04-Feb-15 | -64 | 0 | 0% |
| SB2F0376 | B7 (B2f) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting | 8 | 30-Apr-15 | 0% | 8 | 11-May-15 | 05-Feb-15 | 13-Feb-15 | -64 | 0 | 0% |
| SB2F0378 | B7 (B2f) - Pier Head Segment Diaphragm - Concreting | 2 | 11-May-15 | 0% | 2 | 14-May-15 | 14-Feb-15 | 16-Feb-15 | -64 | 0 | 0% |
| | B7 (B2f) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 6 | 14-May-15 | 0% | 6 | 22-May-15 | 27-Feb-15 | 05-Mar-15 | -58 | 0 | 0% |
| Pier B8 (B2e) | Br (B21) - Fiel Head Segment Diaphragin - Curing & Striking of Forms | 0 | 14-Way-15 | 078 | 0 | 22-1viay-15 | 27-1-60-13 | 05-1011-15 | -50 | 0 | 078 |
| Pier Works | | | | | | | | | | | |
| SB2E0230 | B8 (B2e) - Type 5B Pier Head Scaffolding | 3 | 02-Mar-15 A | 100% | 0 | 06-Mar-15 A | | | | | 100% |
| SB2E0240 | B8 (B2e) - Type 5B Pier Head Rebarwork | 4 | 07-Mar-15 A | 100% | 0 | 23-Mar-15 A | | | | | 100% |
| SB2E0250 | B8 (B2e) - Type 5B Pier Head Formwork & Prep for Concreting | 4 | 17-Mar-15 A | 0% | 4 | 25-Mar-15 | 20-Jan-15 | 23-Jan-15 | -49 | 0 | 0% |
| SB2E0260 | B8 (B2e) - Type 5B Pier Head Concreting | 1 | 26-Mar-15 | 0% | 1 | 26-Mar-15 | 24-Jan-15 | 24-Jan-15 | -49 | 0 | 0% |
| SB2E0270 | B8 (B2e) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding | 6 | 27-Mar-15 | 0% | 6 | 02-Apr-15 | 26-Jan-15 | 31-Jan-15 | -49 | 0 | 0% |
| SB2E0280 | B8 (B2e) - Type 5B Pier Backfilling Works | 4 | 31-Mar-15 | 0% | 4 | 08-Apr-15 | 29-Jan-15 | 02-Feb-15 | -49 | 0 | 0% |
| Pier Head Se | | | | | | • | | | | | |
| SB2E0370 | B8 (B2e) - Pier Head Segment - Temporary Platform | 6 | 09-Apr-15 | 0% | 6 | 16-Apr-15 | 03-Feb-15 | 09-Feb-15 | -49 | 18 | 0% |
| SB2E0372 | B8 (B2e) - Pier Head Segment Lift & Fix (1 seg) | 2 | 11-May-15 | 0% | 2 | 13-May-15 | 10-Feb-15 | 11-Feb-15 | -67 | 0 | 0% |
| SB2E0374 | B8 (B2e) - Pier Head Segment Diaphragm - Rebar | 12 | 14-May-15 | 0% | 12 | 29-May-15 | 12-Feb-15 | 28-Feb-15 | -67 | 0 | 0% |
| SB2E0376 | B8 (B2e) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting | 8 | 30-May-15 | 0% | 8 | 10-Jun-15 | 02-Mar-15 | 10-Mar-15 | -67 | 0 | 0% |
| SB2E0378 | B8 (B2e) - Pier Head Segment Diaphragm - Concreting | 2 | 12-Jun-15 | 0% | 2 | 13-Jun-15 | 11-Mar-15 | 12-Mar-15 | -67 | 0 | 0% |
| SB2E0370 SB2E0380 | B8 (B2e) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 6 | 15-Jun-15 | 0% | 6 | 24-Jun-15 | 19-Mar-15 | 26-Mar-15 | -61 | 0 | 0% |
| Pier B9 (B2d) | | 0 | 13-3011-13 | 078 | 0 | 24-5011-15 | 19-10181-15 | 20-11101-13 | -01 | 0 | 078 |
| Pier Works | | | | | | | | | | | |
| SB2D0230 | B9 (B2d) - Type 5B Pier Head Scaffolding | 3 | 07-Mar-15 A | 100% | 0 | 21-Mar-15 A | | | | | 100% |
| SB2D0240 | B9 (B2d) - Type 5B Pier Head Rebarwork | 4 | 21-Mar-15 A | 0% | 4 | 25-Mar-15 | 13-Feb-15 | 17-Feb-15 | -28 | 0 | 0% |
| SB2D0250 | B9 (B2d) - Type 5B Pier Head Formwork & Prep for Concreting | 4 | 26-Mar-15 | 0% | 4 | 30-Mar-15 | 18-Feb-15 | 25-Feb-15 | -28 | 0 | 0% |
| SB2D0260 | B9 (B2d) - Type 5B Pier Head Concreting | 1 | 31-Mar-15 | 0% | 1 | 31-Mar-15 | 26-Feb-15 | 26-Feb-15 | -28 | 0 | 0% |
| SB2D0270 | B9 (B2d) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding | 6 | 01-Apr-15 | 0% | 6 | 11-Apr-15 | 27-Feb-15 | 05-Mar-15 | -28 | 0 | 0% |
| SB2D0280 | B9 (B2d) - Type 5B Pier Backfilling Works | 4 | 09-Apr-15 | 0% | 4 | 13-Apr-15 | 03-Mar-15 | 06-Mar-15 | -28 | 0 | 0% |
| Pier Head Se | egments | · · · · · · | · | , | | | | | | | |
| SB2D0370 | B9 (B2d) - Pier Head Segment - Temporary Platform | 6 | 14-Apr-15 | 0% | 6 | 21-Apr-15 | 07-Mar-15 | 13-Mar-15 | -28 | 14 | 0% |
| SB2D0372 | B9 (B2d) - Pier Head Segment Lift & Fix (1 seg) | 2 | 11-May-15 | 0% | 2 | 13-May-15 | 14-Mar-15 | 16-Mar-15 | -42 | 0 | 0% |
| SB2D0374 | B9 (B2d) - Pier Head Segment Diaphragm - Rebar | 12 | 14-May-15 | 0% | 12 | 29-May-15 | 17-Mar-15 | 30-Mar-15 | -42 | 0 | 0% |
| SB2D0376 | B9 (B2d) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting | 8 | 30-May-15 | 0% | 8 | 10-Jun-15 | 31-Mar-15 | 13-Apr-15 | -42 | 0 | 0% |
| Actual Work | Project ID: J3518DWPrE-M22 | Tuen Mun - Cl | hek Lap Kok I | _ink - Sou | thern (| Connection | | Date | Revis | sion | Checked |
| Planned Bar | Layout: J3518-DWP-3MRP Submission - M22_ | 3-Month Rollin | • | | | | es) | 09-Mar-15 | | | DB |
| Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CO | | Progress as | • | - | - | - / | 31-Mar-15 | | IV. | VY |



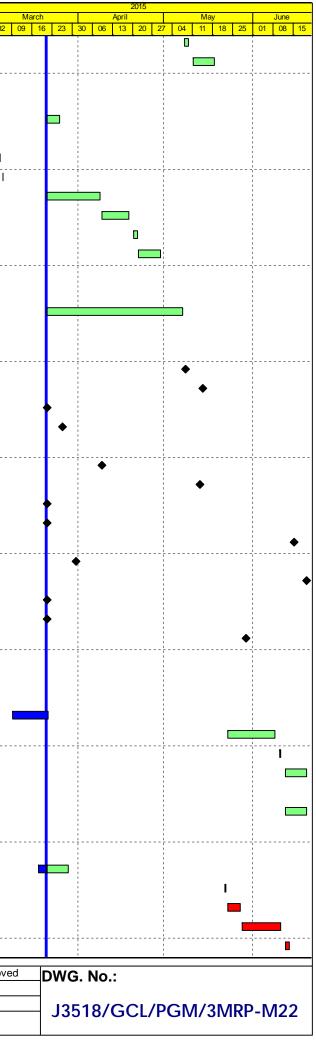
| | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|--|---|---|---|--|---|---|--|--|--|---|--|
| SB2D0378 | B9 (B2d) - Pier Head Segment Diaphragm - Concreting | 2 | 12-Jun-15 | 0% | 2 | 13-Jun-15 | 14-Apr-15 | 16-Apr-15 | -42 | 0 | 0% |
| SB2D0380 | B9 (B2d) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 6 | 15-Jun-15 | 0% | 6 | 24-Jun-15 | 25-Apr-15 | 02-May-15 | -36 | 0 | 0% |
| Pier B10 (B2 | c) | I | | | | | JJ | | | | |
| Pier Works | | | | | | | | | | | |
| SB2C0170 | B10 (B2c) - Type 5B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 18-Feb-15 A | 100% | 0 | 25-Feb-15 A | | | | | 100% |
| SB2C0180 | B10 (B2c) - Type 5B Pier Concreting (1st Lift) | 1 | 26-Feb-15 A | 100% | 0 | 26-Feb-15 A | | | | | 100% |
| SB2C0182 | B10 (B2c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 27-Feb-15 A | 100% | 0 | 27-Feb-15 A | | | | | 100% |
| SB2C0190 | B10 (B2c) - Type 5B Pier Scaffolding (2nd Lift) | 2 | 19-Mar-15 A | 100% | 0 | 21-Mar-15 A | | | | | 100% |
| SB2C0200 | B10 (B2c) - Type 5B Pier Rebarwork (2nd Lift) | 3 | 21-Mar-15 A | 20% | 2 | 24-Mar-15 | 04-Mar-15 | 06-Mar-15 | -14 | 0 | 20% |
| SB2C0210 | B10 (B2c) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift) | 3 | 24-Mar-15 | 0% | 3 | 27-Mar-15 | 07-Mar-15 | 10-Mar-15 | -14 | 0 | 0% |
| SB2C0220 | B10 (B2c) - Type 5B Pier Concreting (2nd Lift) | 1 | 27-Mar-15 | 0% | 1 | 28-Mar-15 | 11-Mar-15 | 11-Mar-15 | -14 | 0 | 0% |
| SB2C0222 | B10 (B2c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 28-Mar-15 | 0% | 2 | 31-Mar-15 | 12-Mar-15 | 13-Mar-15 | -14 | 0 | 0% |
| SB2C0230 | B10 (B2c) - Type 5B Pier Head Scaffolding | 3 | 31-Mar-15 | 0% | 3 | 08-Apr-15 | 14-Mar-15 | 17-Mar-15 | -14 | 0 | 0% |
| SB2C0240 | B10 (B2c) - Type 5B Pier Head Rebarwork | 4 | 08-Apr-15 | 0% | 4 | 13-Apr-15 | 18-Mar-15 | 21-Mar-15 | -14 | 0 | 0% |
| SB2C0250 | B10 (B2c) - Type 5B Pier Head Formwork & Prep for Concreting | 4 | 13-Apr-15 | 0% | 4 | 18-Apr-15 | 23-Mar-15 | 26-Mar-15 | -14 | 0 | 0% |
| SB2C0260 | B10 (B2c) - Type 5B Pier Head Concreting | 1 | 18-Apr-15 | 0% | 1 | 20-Apr-15 | 27-Mar-15 | 27-Mar-15 | -14 | 0 | 0% |
| SB2C0270 | B10 (B2c) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding | 6 | 20-Apr-15 | 0% | 6 | 28-Apr-15 | 28-Mar-15 | 08-Apr-15 | -14 | 0 | 0% |
| SB2C0280 | B10 (B2c) - Type 5B Pier Backfilling Works | 4 | 24-Apr-15 | 0% | 4 | 29-Apr-15 | 01-Apr-15 | 09-Apr-15 | -14 | 0 | 0% |
| Pier Head S | | | | | <u> </u> | | · · | · | | | |
| SB2C0370 | | 6 | 29-Apr-15 | 0% | 6 | 07-May-15 | 10-Apr-15 | 17-Apr-15 | -14 | 3 | 0% |
| SB2C0372 | B10 (B2c) - Pier Head Segment Lift & Fix (1 seg) | 2 | 11-May-15 | 0% | 2 | 13-May-15 | 18-Apr-15 | 20-Apr-15 | -17 | 0 | 0% |
| SB2C0374 | B10 (B2c) - Pier Head Segment Diaphragm - Rebar | 12 | 14-May-15 | 0% | 12 | 29-May-15 | 21-Apr-15 | 06-May-15 | -17 | 0 | 0% |
| SB2C0376 | B10 (B2c) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting | 8 | 30-May-15 | 0% | 8 | 10-Jun-15 | 07-May-15 | 16-May-15 | -17 | 0 | 0% |
| SB2C0378 | | 2 | 12-Jun-15 | 0% | 2 | 13-Jun-15 | 18-May-15 | 19-May-15 | -17 | 0 | 0% |
| SB2C0380 | | 6 | 15-Jun-15 | 0% | 6 | 24-Jun-15 | 29-May-15 | 05-Jun-15 | -11 | 0 | 0% |
| Pier B11 (B2 | b) | | | | | | | | | | |
| Pier Works | | | | | | | | | | | |
| SB2B0230 | B11 (B2b) - Type 5B-B Pier Head Scaffolding | 3 | 23-Feb-15 A | 100% | 0 | 25-Feb-15 A | | | | | 100% |
| SB2B0240 | B11 (B2b) - Type 5B-B Pier Head Rebarwork | 4 | 07-Mar-15 A | 100% | 0 | 19-Mar-15 A | | | | | 100% |
| SB2B0250 | | | 0 | | 5 | 26-Mar-15 | | | | | |
| | B11 (B2b) - Type 5B-B Pier Head Formwork & Prep for Concreting | 5 | 20-Mar-15 A | 10% | | | 20-Apr-15 | 25-Apr-15 | 21 | 0 | 10% |
| | B11 (B2b) - Type 5B-B Pier Head Formwork & Prep for Concreting B11 (B2b) - Type 5B-B Pier Head Concreting | 5 | 20-Mar-15 A | 10% 0% | | | 20-Apr-15 27-Apr-15 | 25-Apr-15 | 21 21 | 0 | 10% |
| SB2B0260 | B11 (B2b) - Type 5B-B Pier Head Concreting | 1 | 26-Mar-15 | 0% | 1 | 27-Mar-15 | 27-Apr-15 | 27-Apr-15 | 21 | 0 | 0% |
| SB2B0260 SB2B0270 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding | 1 | 26-Mar-15 27-Mar-15 | 0% 0% | | 27-Mar-15 08-Apr-15 | 27-Apr-15 28-Apr-15 | 27-Apr-15 05-May-15 | 21 21 | 0 | 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works | 1 | 26-Mar-15 | 0% | 1 | 27-Mar-15 | 27-Apr-15 | 27-Apr-15 | 21 | 0 | 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments | 1 6 4 | 26-Mar-15 27-Mar-15 31-Mar-15 | 0% 0% 0% | 1 6 4 | 27-Mar-15 08-Apr-15 09-Apr-15 | 27-Apr-15 28-Apr-15 02-May-15 | 27-Apr-15 05-May-15 06-May-15 | 21 21 21 | 0 0 0 | 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform | 1 6 4 6 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 | 0% 0% 0% | 1 6 4 6 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 | 21 21 21 21 21 | 0 0 0 | 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0372 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) | 1 6 4 6 2 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 | 0% 0% 0% 0% | 1 6 4 6 2 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 | 21 21 21 21 21 21 21 | 0 0 0 0 | 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0372 SB2B0374 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar | 1 6 4 6 2 12 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 | 0% 0% 0% 0% 0% | 1 6 4 6 2 12 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 18-May-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 | 21 21 21 21 21 21 21 21 | 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0372 SB2B0374 SB2B0376 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting | 1 6 4 6 2 12 8 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 | 0% 0% 0% 0% 0% 0% | 1 6 4 6 2 12 8 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 18-May-15 04-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 | 21 21 21 21 21 21 21 21 21 21 | 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0372 SB2B0374 SB2B0376 SB2B0378 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting | 1 6 4 2 12 8 2 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 | 0% 0% 0% 0% 0% 0% | 1 6 4 2 12 8 2 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 18-May-15 04-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 | 21 21 21 21 21 21 21 21 21 21 21 | 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0374 SB2B0376 SB2B0378 SB2B0380 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 1 6 4 6 2 12 8 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 | 0% 0% 0% 0% 0% 0% | 1 6 4 6 2 12 8 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 18-May-15 04-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 | 21 21 21 21 21 21 21 21 21 21 | 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0372 SB2B0374 SB2B0376 SB2B0378 SB2B0380 Pier B12 (B23 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 1 6 4 2 12 8 2 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 | 0% 0% 0% 0% 0% 0% | 1 6 4 2 12 8 2 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 18-May-15 04-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 | 21 21 21 21 21 21 21 21 21 21 21 | 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0374 SB2B0376 SB2B0378 SB2B0378 SB2B0380 Pier B12 (B23 Pier Works | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting | 1 6 4 2 12 8 2 6 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 | 0% 0% 0% 0% 0% 0% 0% | 1 6 4 2 12 8 2 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 28-May-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 18-May-15 04-Jun-15 30-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 02-Jun-15 15-Jun-15 07-Jul-15 | 21 21 21 21 21 21 21 21 21 21 27 | 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0372 SB2B0374 SB2B0376 SB2B0378 SB2B0380 Pier B12 (B2 Pier Works SB2A0300 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Curing & Striking of Forms a) B12 (B2a) - Type 5B-MJ Pier Head Scaffolding (F/W from B6) | 1 6 4 2 12 8 2 6 4 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 | 0% 0% 0% 0% 0% 0% 0% | 1 6 4 6 2 12 8 2 6 | 27-Mar-15 08-Apr-15 09-Apr-15 20-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 28-May-15 28-May-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 18-May-15 04-Jun-15 30-Jun-15 30-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 07-Jul-15 | 21 21 21 21 21 21 21 21 21 21 21 27 | 0 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0372 SB2B0376 SB2B0376 SB2B0378 SB2B0380 Pier B12 (B2 SB2A0300 SB2A0310 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Curing & Striking of Forms a) B12 (B2a) - Type 5B-MJ Pier Head Scaffolding (F/W from B6) B12 (B2a) - Type 5B-MJ Pier Head Rebarwork | 1 6 4 2 12 8 2 5 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 21-Mar-15 26-Mar-15 | 0% 0% 0% 0% 0% 0% 0% 0% | 1 6 4 2 12 8 2 6 4 5 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 28-May-15 28-May-15 28-May-15 31-Mar-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 18-May-15 04-Jun-15 30-Jun-15 30-Jun-15 28-May-15 02-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 07-Jul-15 07-Jul-15 08-Jun-15 | 21 21 21 21 21 21 21 21 21 21 21 27 48 48 48 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0374 SB2B0376 SB2B0378 SB2B0380 Pier B12 (B2 Pier Works SB2A0300 SB2A0310 SB2A0320 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Curing & Striking of Forms a) B12 (B2a) - Type 5B-MJ Pier Head Scaffolding (F/W from B6) B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting | 1 6 4 2 12 8 2 12 8 2 6 4 5 5 5 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 21-Mar-15 26-Mar-15 01-Apr-15 | 0% 0% 0% 0% 0% 0% 0% 0% | 1 6 4 6 2 12 8 2 6 6 4 5 5 5 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 28-May-15 28-May-15 28-Mar-15 31-Mar-15 10-Apr-15 | 27-Apr-15 28-Apr-15 02-May-15 07-May-15 15-May-15 18-May-15 04-Jun-15 30-Jun-15 30-Jun-15 02-Jun-15 10-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 07-Jul-15 07-Jul-15 08-Jun-15 16-Jun-15 | 21 21 21 21 21 21 21 21 21 21 21 27 48 48 48 48 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0374 SB2B0376 SB2B0376 SB2B0378 SB2B0380 Pier B12 (B2 SB2A0300 SB2A0300 SB2A0310 SB2A0320 SB2A0330 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Curing & Striking of Forms a) B12 (B2a) - Type 5B-MJ Pier Head Scaffolding (F/W from B6) B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Concreting | 1 6 4 2 12 8 2 6 4 5 5 1 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 21-Mar-15 26-Mar-15 01-Apr-15 | 0% 0% 0% 0% 0% 0% 0% 0% | 1 6 4 2 12 8 2 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 28-May-15 28-May-15 31-Mar-15 10-Apr-15 11-Apr-15 | 27-Apr-15 28-Apr-15 02-May-15 15-May-15 15-May-15 18-May-15 04-Jun-15 30-Jun-15 30-Jun-15 28-May-15 02-Jun-15 10-Jun-15 18-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 07-Jul-15 07-Jul-15 08-Jun-15 16-Jun-15 18-Jun-15 | 21 21 21 21 21 21 21 21 21 21 21 21 27 48 48 48 48 48 48 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0374 SB2B0374 SB2B0376 SB2B0378 SB2B0380 Pier B12 (B23 Pier Works SB2A0300 SB2A0310 SB2A0320 SB2A0330 SB2A0330 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B12 (B2a) - Type 5B-MJ Pier Head Scaffolding (F/W from B6) B12 (B2a) - Type 5B-MJ Pier Head Rebarwork B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Curing/Striking of Forms/Remove Scaffolding | 1 6 4 2 12 8 2 12 8 2 6 4 5 5 5 1 1 6 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 221-Mar-15 26-Mar-15 01-Apr-15 11-Apr-15 | 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% | 1 6 4 2 12 8 2 6 4 5 5 1 1 6 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 28-May-15 28-May-15 28-Mar-15 31-Mar-15 10-Apr-15 20-Apr-15 | 27-Apr-15 28-Apr-15 02-May-15 107-May-15 15-May-15 18-May-15 04-Jun-15 16-Jun-15 30-Jun-15 02-Jun-15 10-Jun-15 18-Jun-15 19-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 07-Jul-15 07-Jul-15 08-Jun-15 16-Jun-15 18-Jun-15 29-Jun-15 | 21 21 21 21 21 21 21 21 21 21 21 27 48 48 48 48 48 48 48 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0372 SB2B0374 SB2B0376 SB2B0378 SB2B0380 Fier B12 (B2 SB2A0300 SB2A0300 SB2A0320 SB2A0330 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Curing & Striking of Forms a) B12 (B2a) - Type 5B-MJ Pier Head Scaffolding (F/W from B6) B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Concreting | 1 6 4 2 12 8 2 6 4 5 5 1 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 26-Mar-15 26-Mar-15 01-Apr-15 | 0% 0% 0% 0% 0% 0% 0% 0% | 1 6 4 2 12 8 2 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 28-May-15 28-May-15 31-Mar-15 10-Apr-15 11-Apr-15 | 27-Apr-15 28-Apr-15 02-May-15 15-May-15 15-May-15 18-May-15 04-Jun-15 30-Jun-15 30-Jun-15 28-May-15 02-Jun-15 10-Jun-15 18-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 07-Jul-15 07-Jul-15 08-Jun-15 16-Jun-15 18-Jun-15 | 21 21 21 21 21 21 21 21 21 21 21 21 27 48 48 48 48 48 48 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0374 SB2B0374 SB2B0376 SB2B0378 SB2B0380 ier B12 (B2 SB2A0300 SB2A0310 SB2A0310 SB2A0330 SB2A0330 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Curing & Striking of Forms a) B12 (B2a) - Type 5B-MJ Pier Head Rebarwork B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting B12 (B2a) - Type 5B-MJ Pier Head Curing/Striking of Forms/Remove Scaffolding B12 (B2a) - Type 5B-MJ Pier Head Curing/Striking of Forms/Remove Scaffolding B12 (B2a) - Type 5B-MJ Pier Backfilling Works | 1 6 4 2 12 8 2 6 4 6 4 5 5 5 1 1 6 4 | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 221-Mar-15 26-Mar-15 01-Apr-15 11-Apr-15 | 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% | 1 6 4 2 12 8 2 6 4 5 5 1 6 4 | 27-Mar-15 08-Apr-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 28-May-15 28-May-15 31-Mar-15 31-Mar-15 10-Apr-15 20-Apr-15 25-Apr-15 | 27-Apr-15 28-Apr-15 02-May-15 107-May-15 15-May-15 18-May-15 04-Jun-15 16-Jun-15 30-Jun-15 02-Jun-15 10-Jun-15 18-Jun-15 19-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 07-Jul-15 07-Jul-15 08-Jun-15 16-Jun-15 18-Jun-15 29-Jun-15 | 21 21 21 21 21 21 21 21 21 21 21 27 48 48 48 48 48 48 48 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% |
| SB2B0260 SB2B0270 SB2B0280 Pier Head S SB2B0370 SB2B0372 SB2B0374 SB2B0376 SB2B0376 SB2B0378 SB2B0380 Pier Works SB2A0300 SB2A0300 SB2A0320 SB2A0340 SB2A0340 | B11 (B2b) - Type 5B-B Pier Head Concreting B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding B11 (B2b) - Type 5B-B Pier Backfilling Works egments B11 (B2b) - Pier Head Segment - Temporary Platform B11 (B2b) - Pier Head Segment Lift & Fix (1 seg) B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Rebar B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B11 (B2b) - Pier Head Segment Diaphragm - Concreting B12 (B2a) - Type 5B-MJ Pier Head Scaffolding (F/W from B6) B12 (B2a) - Type 5B-MJ Pier Head Rebarwork B12 (B2a) - Type 5B-MJ Pier Head Concreting B12 (B2a) - Type 5B-MJ Pier Head Curing/Striking of Forms/Remove Scaffolding B12 (B2a) - Type 5B-MJ Pier Backfilling Works | 1 6 4 2 12 8 2 12 8 2 6 4 5 5 5 1 1 6 4 4 uen Mun - C | 26-Mar-15 27-Mar-15 31-Mar-15 09-Apr-15 17-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 19-May-15 26-Mar-15 26-Mar-15 01-Apr-15 13-Apr-15 21-Apr-15 | 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% | 1 6 4 2 12 8 2 6 4 5 5 1 6 4 5 5 1 6 4 4 | 27-Mar-15 08-Apr-15 09-Apr-15 20-Apr-15 20-Apr-15 06-May-15 16-May-15 19-May-15 28-May-15 28-May-15 25-Mar-15 31-Mar-15 10-Apr-15 20-Apr-15 25-Apr-15 | 27-Apr-15 28-Apr-15 02-May-15 15-May-15 15-May-15 18-May-15 04-Jun-15 04-Jun-15 30-Jun-15 28-May-15 10-Jun-15 10-Jun-15 18-Jun-15 30-Jun-15 | 27-Apr-15 05-May-15 06-May-15 14-May-15 16-May-15 02-Jun-15 15-Jun-15 18-Jun-15 07-Jul-15 08-Jun-15 16-Jun-15 18-Jun-15 29-Jun-15 04-Jul-15 | 21 21 21 21 21 21 21 21 21 21 21 27 27 48 48 48 48 48 48 48 48 48 48 48 48 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0 |



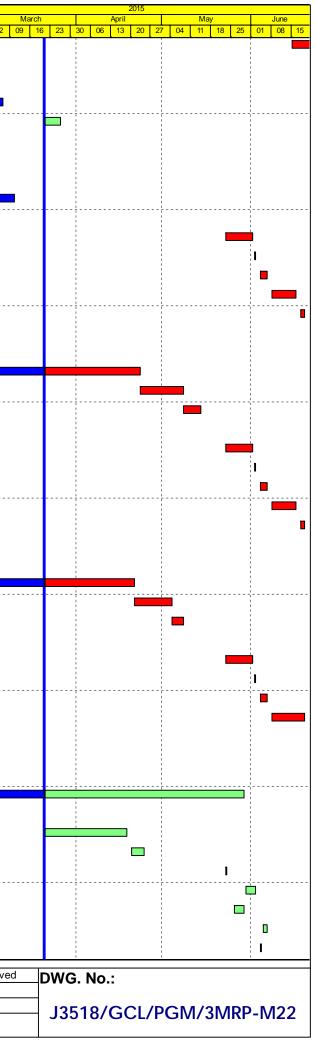
| Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|---|--------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|
| SB2A0380 B12 (B2a) - Type 5B-Bearing Plinth | 4 | 13-Apr-15 | 0% | 4 | 17-Apr-15 | 24-Jun-15 | 29-Jun-15 | 50 | 2 | 0% |
| Pier Head Segments | | | , | | | ,, | | | | |
| SB2A0370 B12 (B2a) - Pier Head Segment - Temporary Platform | 6 | 27-Apr-15 | 0% | 6 | 04-May-15 | 06-Jul-15 | 11-Jul-15 | 48 | 0 | 0% |
| SB2A0371 B12 (B2a) - Pier Head Segment Bearings | 2 | 05-May-15 | 0% | 2 | 06-May-15 | 13-Jul-15 | 14-Jul-15 | 48 | 3 | 0% |
| SB2A0372 B12 (B2a) - Pier Head Segment Lift & Temp Support (2 seg) | 7 | 11-May-15 | 0% | 7 | 19-May-15 | 15-Jul-15 | 23-Jul-15 | 45 | 0 | 0% |
| ridge B1 | | | | | | | | | | |
| Pier B13 (B1g) | | | | | | | | | | |
| Pier Works | | | | _ | | , | | | | |
| SB1G0230 B13 (B1g) - Type 5B-B Pier Head Scaffolding | 3 | 21-Mar-15 A | 5% | 3 | 24-Mar-15 | 02-May-15 | 05-May-15 | 29 | 0 | 5% |
| SB1G0240 B13 (B1g) - Type 5B-B Pier Head Rebarwork | 4 | 24-Mar-15 | 0% | 4 | 28-Mar-15 | 06-May-15 | 09-May-15 | 29 | 0 | 0% |
| SB1G0250 B13 (B1g) - Type 5B-B Pier Head Formwork & Prep for Concreting | 4 | 28-Mar-15 | 0% | 4 | 02-Apr-15 | 11-May-15 | 15-May-15 | 29 | 0 | 0% |
| SB1G0260 B13 (B1g) - Type 5B-B Pier Head Concreting | 1 | 02-Apr-15 | 0% | 1 | 08-Apr-15 | 16-May-15 | 16-May-15 | 29 | 0 | 0% |
| SB1G0270 B13 (B1g) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding | 6 | 08-Apr-15 | 0% | 6 | 16-Apr-15 | 18-May-15 | 26-May-15 | 29 | 0 | 0% |
| SB1G0280 B13 (B1g) - Type 5B-B Pier Backfilling Works | 4 | 16-Apr-15 | 0% | 4 | 21-Apr-15 | 27-May-15 | 30-May-15 | 29 | 0 | 0% |
| SB1G0290 B13 (B1g) - Type 5B-B Bearing Plinth | 6 | 08-Apr-15 | 0% | 6 | 16-Apr-15 | 18-May-15 | 26-May-15 | 29 | 0 | 0% |
| Pier Head Segments | | | | | | , , | | | | |
| SB1G0370 B13 (B1g) - Pier Head Segment - Temporary Platform | 6 | 21-Apr-15 | 0% | 6 | 29-Apr-15 | 01-Jun-15 | 08-Jun-15 | 29 | 0 | 0% |
| SB1G0372 B13 (B1g) - Pier Head Segment Lift & Fix (1 seg) | 2 | 29-Apr-15 | 0% | 2 | 02-May-15 | 10-Jun-15 | 12-Jun-15 | 29 | 0 | 0% |
| SB1G0374 B13 (B1g) - Pier Head Segment Diaphragm - Rebar | 12 | 02-May-15 | 0% | 12 | 18-May-15 | 13-Jun-15 | 02-Jul-15 | 29 | 0 | 0% |
| SB1G0376 B13 (B1g) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting | 8 | 18-May-15 | 0% | 8 | 29-May-15 | 03-Jul-15 | 11-Jul-15 | 29 | 0 | 0% |
| SB1G0378 B13 (B1g) - Pier Head Segment Diaphragm - Concreting | 2 | 29-May-15 | 0% | 2 | 01-Jun-15 | 13-Jul-15 | 14-Jul-15 | 29 | 0 | 0% |
| SB1G0380 B13 (B1g) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 6 | 01-Jun-15 | 0% | 6 | 10-Jun-15 | 23-Jul-15 | 30-Jul-15 | 35 | 0 | 0% |
| Pier B14 (B1f) | | | | | | | | | | |
| Pier Works | | | | | | | | | | |
| SB1F0210 B14 (B1f) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift) | 3 | 27-Feb-15 A | 100% | 0 | 02-Mar-15 A | | | | | 100% |
| SB1F0220 B14 (B1f) - Type 5B Pier Concreting (2nd Lift) | 1 | 03-Mar-15 A | 100% | 0 | 03-Mar-15 A | | | | | 100% |
| SB1F0222 B14 (B1f) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 05-Mar-15 A | 100% | 0 | 05-Mar-15 A | | | | | 100% |
| SB1F0230 B14 (B1f) - Type 5B Pier Head Scaffolding | 3 | 13-Mar-15 A | 100% | 0 | 17-Mar-15 A | | | | | 100% |
| SB1F0240 B14 (B1f) - Type 5B Pier Head Rebarwork | 4 | 18-Mar-15 A | 100% | 0 | 21-Mar-15 A | | | | | 100% |
| SB1F0250 B14 (B1f) - Type 5B Pier Head Formwork & Prep for Concreting | 4 | 21-Mar-15 | 0% | 4 | 25-Mar-15 | 06-Jun-15 | 12-Jun-15 | 55 | 0 | 0% |
| SB1F0260 B14 (B1f) - Type 5B Pier Head Concreting | 1 | 26-Mar-15 | 0% | 1 | 26-Mar-15 | 13-Jun-15 | 13-Jun-15 | 55 | 0 | 0% |
| SB1F0270 B14 (B1f) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding | 6 | 27-Mar-15 | 0% | 6 | 02-Apr-15 | 15-Jun-15 | 24-Jun-15 | 55 | 0 | 0% |
| SB1F0280 B14 (B1f) - Type 5B Pier Backfilling Works | 4 | 08-Apr-15 | 0% | 4 | 11-Apr-15 | 26-Jun-15 | 30-Jun-15 | 55 | 0 | 0% |
| Pier Head Segments | | | | | | | | | | |
| SB1F0370 B14 (B1f) - Pier Head Segment - Temporary Platform | 6 | 13-Apr-15 | 0% | 6 | 20-Apr-15 | 02-Jul-15 | 08-Jul-15 | 55 | 0 | 0% |
| SB1F0372 B14 (B1f) - Pier Head Segment Lift & Fix (1 seg) | 2 | 21-Apr-15 | 0% | 2 | 22-Apr-15 | 09-Jul-15 | 10-Jul-15 | 55 | 0 | 0% |
| SB1F0374 B14 (B1f) - Pier Head Segment Diaphragm - Rebar | 12 | 24-Apr-15 | 0% | 12 | 08-May-15 | 11-Jul-15 | 25-Jul-15 | 55 | 0 | 0% |
| SB1F0376 B14 (B1f) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting Option 2017 00000 Diaphragm - Pier Head Segment Diaphragm - Concreting | 8 | 09-May-15 | 0% | 8 | 19-May-15 | 27-Jul-15 | 05-Aug-15 | 55 | 0 | 0% |
| SB1F0378 B14 (B1f) - Pier Head Segment Diaphragm - Concreting CR4F0300 D14 (D14) Diaphrage Diaphragm - Concreting | 2 | 20-May-15 | 0% | 2 | 22-May-15 | 06-Aug-15 | 07-Aug-15 | 55 | 0 | 0% |
| SB1F0380 B14 (B1f) - Pier Head Segment Diaphragm - Curing & Striking of Forms | 6 | 23-May-15 | 0% | 6 | 30-May-15 | 17-Aug-15 | 24-Aug-15 | 61 | 0 | 0% |
| Pier B15 (B1e) | | | | | | | | | | |
| Pier Works | 4 | | 0001 | 0 | 00 Mar 45 | 00 bil 45 | 04 6445 | 0.4 | 0 | 0004 |
| SB1E0280 B15 (B1e) - Type 5B Pier Backfilling Works | 4 | 16-Mar-15 A | 60% | 2 | 23-Mar-15 | 20-Jul-15 | 21-Jul-15 | 84 | 0 | 60% |
| Pier Head Segments | <u>^</u> | 22 Mar 15 | 00/ | 6 | 20 Mar 15 | 22 145 | 20 1.145 | 0.4 | 4 | 00/ |
| SB1E0370 B15 (B1e) - Pier Head Segment - Temporary Platform SB1E0372 B15 (B1e) - Dier Head Segment Lift & Fire (1 corr) | 6 | 23-Mar-15 | 0% | 6 | 30-Mar-15 | 22-Jul-15 | 28-Jul-15 | 84 | 4 | 0% |
| SB1E0372 B15 (B1e) - Pier Head Segment Lift & Fix (1 seg) SB1E0374 B15 (B1e) - Pier Head Segment Displacement Displa | 2 | 09-Apr-15 | 0% | 2 | 10-Apr-15 | 30-Jul-15 | 31-Jul-15 | 80 | 0 | 0% |
| SB1E0374 B15 (B1e) - Pier Head Segment Diaphragm - Rebar SB1E0376 B15 (B1a) Diar Head Segment Diaphragm Formwork & Brop for Congreting | 12 | 11-Apr-15 | 0% | 12 | 27-Apr-15 | 01-Aug-15 | 15-Aug-15 | 80 | 0 | 0% |
| SB1E0376 B15 (B1e) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting | 8 | 28-Apr-15 | 0% | 8 | 07-May-15 | 17-Aug-15 | 26-Aug-15 | 80 | 0 | 0% |
| Actual Work Project ID: J3518DWPrE-M22 Tu | ien Mun - Cl | hek Lap Kok I | .ink - Sou | thern (| Connection | | Date | Revis | | Checked |
| | | ng Program | • | - | _ | jes) | 09-Mar-15 | | D W | |
| Critical Bar Milestones, No Level of Effort. | (P | rogress as | of 21-N | lar-15 |) | | 31-Mar-15 | | 14/ | 1 |



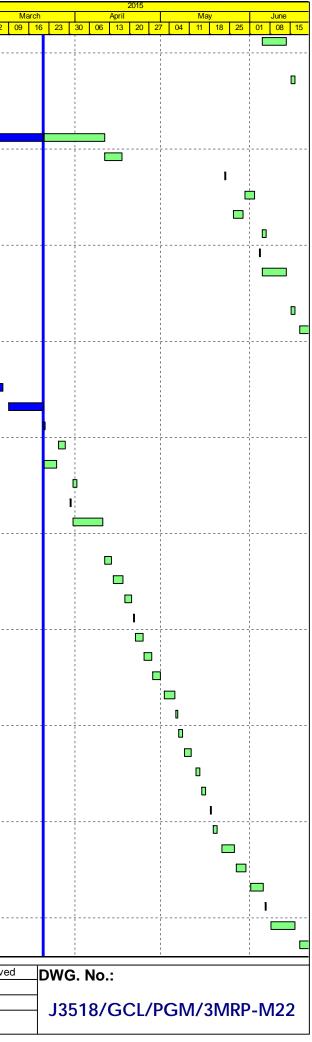
| iivity ID | Activity Name | | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | 23 02 |
|--|---------------------------------------|--|----------|-------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|--------------|
| SB1E037 | 78 B15 (B1e) - Pier Head | Segment Diaphragm - Concreting | | 2 | 08-May-15 | 0% | 2 | 09-May-15 | 27-Aug-15 | 28-Aug-15 | 80 | 0 | 0% | |
| SB1E038 | B15 (B1e) - Pier Head | Segment Diaphragm - Curing & Striking of Forms | S | 6 | 11-May-15 | 0% | 6 | 18-May-15 | 04-Sep-15 | 12-Sep-15 | 86 | 0 | 0% | |
| SB1E037 SB1E038 Pier B16 (E Pier B16 (E Pier Work SB1D038 Pier Head SB1D037 SB10037 SB10038 Pier B18 (E Prelimina PB18003 GFXX207-1 GFXX207-1 GFXX212-1 Milestones | 31d) | | I | | | | | | | | | | | |
| Pier Work | (S | | | | | | | | | | | | | |
| SB1D028 | B16 (B1d) - Type 5B P | ier Backfilling Works | | 4 | 21-Mar-15 | 0% | 4 | 25-Mar-15 | 01-Mar-17 | 04-Mar-17 | 539 | 24 | 0% | |
| Pier Head | l Segments | | | | | | | | J | | | | | |
| SB1D037 | 70 B16 (B1d) - Pier Head | Segment - Temporary Platform | | 6 | 28-Feb-15 A | 100% | 0 | 05-Mar-15 A | | | | | 100% | |
| SB1D037 | 72 B16 (B1d) - Pier Head | Segment Lift & Fix (1 seg) | | 2 | 06-Mar-15 A | 100% | 0 | 06-Mar-15 A | | | | | 100% | <u> </u> |
| SB1D037 | | Segment Diaphragm - Rebar | | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 19-Jan-17 | 07-Feb-17 | 509 | 0 | 0% | |
| SB1D037 | 76 B16 (B1d) - Pier Head | Segment Diaphragm - Formwork & Prep for Con | creting | 8 | 09-Apr-15 | 0% | 8 | 18-Apr-15 | 08-Feb-17 | 16-Feb-17 | 509 | 0 | 0% | |
| SB1D037 | 78 B16 (B1d) - Pier Head | Segment Diaphragm - Concreting | | 2 | 20-Apr-15 | 0% | 2 | 21-Apr-15 | 17-Feb-17 | 18-Feb-17 | 509 | 0 | 0% | |
| SB1D038 | . , | Segment Diaphragm - Curing & Striking of Forms | 6 | 6 | 22-Apr-15 | 0% | 6 | 29-Apr-15 | 27-Feb-17 | 04-Mar-17 | 515 | 0 | 0% | |
| Pier B18 (E | 31b) & Abutment B | | | | · · | | | | | | | | | |
| · · | ry Works for Land Piling | | | | | | | | | | | | | |
| PB18003 | - | . Instru. & Baseline Monitoring | | 36 | 21-Mar-15 | 0% | 36 | 07-May-15 | 18-Nov-15 | 31-Dec-15 | 196 | 227 | 0% | |
| Viaduct C | | | | | | | | | | | | | | |
| | s - Marine Foundation | | | | | | | | | | | | | |
| GFXX197-1 | | of piling works | | 0 | | 0% | 0 | 08-May-15 | | 21-Apr-15 | -14 | 19 | 0% | [|
| GFXX202-1 | | • • | | 0 | | 0% | 0 | 14-May-15 | | 18-Mar-15 | -44 | 15 | 0% | |
| GFXX207-1 | | | | 0 | | 0% | 0 | 21-Mar-15 | | 23-Mar-15 | 2 | 56 | 0% | |
| GFXX212-1 | , , , , | | | 0 | | 0% | 0 | 26-Mar-15 | | 17-Jul-15 | 89 | 99 | 0% | |
| | s - Land Foundation | | | 0 | | 078 | 0 | 20-10141-13 | | 17-501-15 | 09 | 33 | 078 | |
| ZC00050 | C17 (C2a) - Start date | a for piling | | 0 | 09-Apr-15 | 0% | 0 | 1 | 10-Nov-15 | | 176 | 52 | 0% | |
| ZC00050 ZC00060 | C16 (C2b) - Start date | | | 0 | 13-May-15 | 0% | 0 | | 03-Nov-15 | | 142 | 52 | 0% | |
| | X , | | | | 13-1viay-13 | | 0 | Of Mar 15 | 03-1107-13 | 07 lon 16 | | | | |
| ZC00071 | C15 (C2c) - Completic | | | 0 | | 0% | | 21-Mar-15 | | 07-Jan-16 | 237 | 160 | 0% | |
| ZC00081 | C14 (C2d) - Completion | | | 0 | | 0% | 0 | 21-Mar-15 | | 22-Dec-15 | 226 | 83 | 0% | |
| ZC00091-1 | , , , , , , , , , , , , , , , , , , , | | | 0 | | 0% | 0 | 15-Jun-15 | | 04-Dec-15 | 144 | 45 | 0% | ¦¦ |
| ZC00092-1 | C11 (C3a) - Completic | | | 0 | | 0% | 0 | 31-Mar-15 | | 10-Sep-15 | 133 | 85 | 0% | |
| ZC00093-1 | . , . | 1 0 | | 0 | | 0% | 0 | 19-Jun-15 | | 18-Aug-15 | 49 | 0 | 0% | |
| ZC00095-1 | C8 (C3d) - Completion | 1.0 | | 0 | | 0% | 0 | 21-Mar-15 | | 30-Apr-18 | 920 | 920 | 0% | |
| ZC00096 | C7 (C3e) - Start date | | | 0 | 21-Mar-15 | 0% | 0 | | 30-Apr-18 | | 920 | 920 | 0% | |
| ZC00096-1 | , , , , , , , , , , , , , , , , , , , | n of piling works | | 0 | | 0% | 0 | 29-May-15 | | 30-Apr-18 | 866 | 866 | 0% | |
| Bridge C4 | | | | | | | | | | | | | | |
| Pier C1 (C4 | | | | | | | | | | | | | | |
| Pile Cap V | | | | | | | | | | | | | | |
| | 20 C1 (C4e) - Marine Pile | • | | 12 | 09-Mar-15 A | 100% | 0 | 21-Mar-15 A | | | | | 100% | |
| SC4E013 | . , | Cap M2 - Rebar fixing, inst.inserts etc | | 12 | 23-May-15 | 0% | 12 | 08-Jun-15 | 29-Aug-15 | 15-Sep-15 | 73 | 0 | 0% | |
| SC4E014 | . , | 1 0 | | 1 | 10-Jun-15 | 0% | 1 | 10-Jun-15 | 16-Sep-15 | 16-Sep-15 | 73 | 0 | 0% | |
| SC4E016 | , , | Cap M2 - Curing incl. CJ preparation | | 6 | 12-Jun-15 | 0% | 6 | 19-Jun-15 | 18-Sep-15 | 24-Sep-15 | 73 | 0 | 0% | |
| Pier Work | | | | | | | | | | | | | | |
| SC4E017 | 70 C1 (C4e) - Type 4B-M | J Pier Temp. Support Platform | | 6 | 12-Jun-15 | 0% | 6 | 19-Jun-15 | 18-Sep-15 | 24-Sep-15 | 73 | 0 | 0% | |
| Pier C2 (C4 | 4d) | | | | | | | | | | | | | |
| Pile Cap V | Works | | | | | | | | | | | | | |
| SC4D007 | 70 C2 (C4d) - Marine Pile | Cap M2b - Inst. Floating Seal & Casing Head Stee | elwork | 7 | 18-Mar-15 A | 0% | 7 | 28-Mar-15 | 30-Apr-15 | 08-May-15 | 28 | 37 | 10% | |
| SC4D008 | 80 C2 (C4d) - Marine Pile | Cap M2b - Install precast shell in position | | 1 | 22-May-15 | 0% | 1 | 22-May-15 | 09-May-15 | 09-May-15 | -9 | 0 | 0% | |
| SC4D009 | 90 C2 (C4d) - Marine Pile | Cap M2b - Inst.Access & make Watertight | | 3 | 23-May-15 | 0% | 3 | 27-May-15 | 11-May-15 | 14-May-15 | -9 | 0 | 0% | |
| SC4D010 | 00 C2 (C4d) - Marine Pile | Cap M2b - Weld Fin plates/Plug Rebar & Concre | ete | 10 | 28-May-15 | 0% | 10 | 10-Jun-15 | 15-May-15 | 28-May-15 | -9 | 0 | 0% | |
| SC4D012 | 20 C2 (C4d) - Marine Pile | Cap M2b - Dewater precast shell / Remove Liftin | g Frame | 2 | 12-Jun-15 | 0% | 2 | 13-Jun-15 | 29-May-15 | 30-May-15 | -9 | 0 | 0% | |
| | | Project ID: J3518DWPrE-M22 | Tuon | | nek Lap Kok I | ink - Sou | thorn (| Connection | , <u> </u> | Date | Revis | sion I (| Checked | Appro |
| Actual Worl | | Layout: J3518-DWP-3MRP Submission - M22_ | 3-Month | | ng Program | | | | 1es) | 09-Mar-15 | NOVR | | B | , 'hhi 0 |
| Critical Bar | | Filter: TASK filters: 3-Month Lookahead, No CC | J-WOULLI | | rogress as | • | - | - | 1001 | 31-Mar-15 | | | /Y | |
| Milestone | | Milestones, No Level of Effort. | | (12 | 1091033 03 | | iai - I J |) | | | | | | |
| | | 1 | 1 | | | | | | | 1 | | | | |



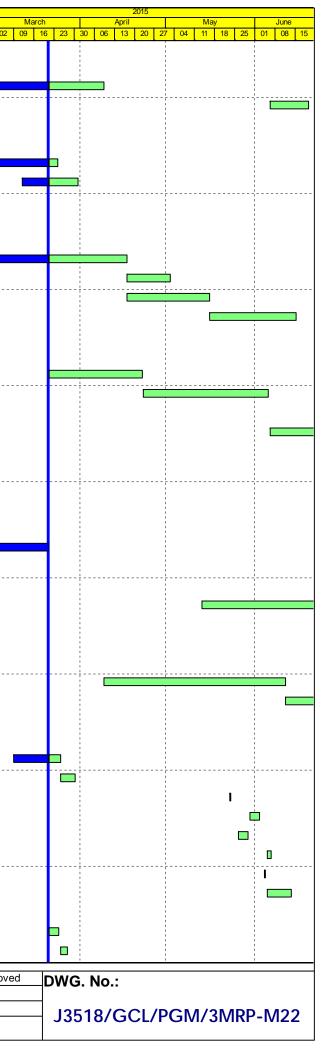
| ctivity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|--|--|----------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|---------|
| SC4D0130 | C2 (C4d) - Marine Pile Cap M2b - Pile cut down | 8 | 15-Jun-15 | 0% | 8 | 27-Jun-15 | 01-Jun-15 | 12-Jun-15 | -9 | 0 | 0% | 23 02 |
| SC4D0130 Pier C3 (C4c) Foundation GFXX211 GFXX212 Pier C4 (C4b) Foundation GFXX206 GFXX207 Pile Cap Wor SC4B0070 SC4B0080 SC4B0100 SC4B0120 Pier C5 (C4a) Foundation GFXX201 GFXX203 GFXX204 SC4B0120 Pier C5 (C4a) GFXX201 GFXX202 Pile Cap Wor SC4A0070 SC4A0070 SC4A0070 SC4A0070 SC4A0070 SC4A0070 SC4A0070 SC4A0070 SC4A0120 Pier C6 (C3f) Foundation GFXX195 | | | | | | | | | | | | |
| Foundation | Works | | | | | | | | | | | |
| GFXX211 | C3 (C4c) - Sonic & Interface Coring | 12 | 18-Feb-15 A | 100% | 0 | 06-Mar-15 A | | | | | 100% | |
| GFXX212 | C3 (C4c) - Dismantle removable panels of temp. platform | 5 | 21-Mar-15 | 0% | 5 | 26-Mar-15 | 03-Jul-15 | 08-Jul-15 | 81 | 0 | 0% | |
| Pier C4 (C4b) | | | <u> </u> | <u> </u> | | | | | | | | |
| Foundation | Works | | | | | | | | | | | |
| GFXX206 | C4 (C4b) - Sonic & Interface Coring | 12 | 09-Feb-15 A | 100% | 0 | 25-Feb-15 A | | | | | 100% | |
| GFXX207 | C4 (C4b) - Dismantle removable panels of temp. platform | 5 | 05-Mar-15 A | 100% | 0 | 10-Mar-15 A | | | | | 100% | |
| Pile Cap Wor | rks | | J | | | | 1 | | | | | |
| SC4B0070 | C4 (C4b) - Marine Pile Cap M2b - Inst.Floating Seal & Casing Head Steelwork | 7 | 23-May-15 | 0% | 7 | 01-Jun-15 | 16-Mar-15 | 23-Mar-15 | -50 | 0 | 0% | |
| SC4B0080 | C4 (C4b) - Marine Pile Cap M2b - Install precast shell in position | 1 | 02-Jun-15 | 0% | 1 | 02-Jun-15 | 24-Mar-15 | 24-Mar-15 | -50 | 0 | 0% | |
| SC4B0090 | C4 (C4b) - Marine Pile Cap M2b - Inst.Access & make Watertight | 3 | 04-Jun-15 | 0% | 3 | 06-Jun-15 | 25-Mar-15 | 27-Mar-15 | -50 | 0 | 0% | |
| SC4B0100 | C4 (C4b) - Marine Pile Cap M2b - Weld Fin plates/Plug Rebar & Concrete | 6 | 08-Jun-15 | 0% | 6 | 16-Jun-15 | 28-Mar-15 | 08-Apr-15 | -50 | 0 | 0% | |
| SC4B0120 | C4 (C4b) - Marine Pile Cap M2b - Dewater precast shell / Remove Lifting Frame | 2 | 18-Jun-15 | 0% | 2 | 19-Jun-15 | 09-Apr-15 | 10-Apr-15 | -50 | 0 | 0% | |
| Pier C5 (C4a) | | , | , | 1 | | 1 | | | | | | |
| Foundation | Works | | | | | | | | | | | |
| GFXX200 | C5 (C4a) - Bored Piles (2.35m dia. x 2 nos) | 84 | 05-Dec-14 A | 71% | 24 | 23-Apr-15 | 16-Jan-15 | 14-Feb-15 | -51 | 0 | 75% | |
| GFXX201 | C5 (C4a) - Sonic & Interface Coring | 12 | 23-Apr-15 | 0% | 12 | 08-May-15 | 14-Feb-15 | 04-Mar-15 | -51 | 0 | 0% | |
| GFXX202 | C5 (C4a) - Dismantle removable panels of temp. platform | 5 | 08-May-15 | 0% | 5 | 14-May-15 | 04-Mar-15 | 10-Mar-15 | -51 | 0 | 0% | |
| Pile Cap Wor | rks | , | | | | 1 | , , , , | | | | | |
| SC4A0070 | C5 (C4a) - Marine Pile Cap M2b - Inst.Floating Seal & Casing Head Steelwork | 7 | 23-May-15 | 0% | 7 | 01-Jun-15 | 10-Mar-15 | 18-Mar-15 | -55 | 0 | 0% | |
| SC4A0080 | C5 (C4a) - Marine Pile Cap M2b - Install precast shell in position | 1 | 02-Jun-15 | 0% | 1 | 02-Jun-15 | 18-Mar-15 | 19-Mar-15 | -55 | 0 | 0% | |
| SC4A0090 | C5 (C4a) - Marine Pile Cap M2b - Inst.Access & make Watertight | 3 | 04-Jun-15 | 0% | 3 | 06-Jun-15 | 19-Mar-15 | 23-Mar-15 | -55 | 0 | 0% | |
| SC4A0100 | C5 (C4a) - Marine Pile Cap M2b - Weld Fin plates/Plug Rebar & Concrete | 6 | 08-Jun-15 | 0% | 6 | 16-Jun-15 | 23-Mar-15 | 30-Mar-15 | -55 | 0 | 0% | |
| SC4A0120 | C5 (C4a) - Marine Pile Cap M2b - Dewater precast shell / Remove Lifting Frame | 2 | 18-Jun-15 | 0% | 2 | 19-Jun-15 | 30-Mar-15 | 01-Apr-15 | -55 | 0 | 0% | |
| Pier C6 (C3f) | | | | | | | | | | | | |
| Foundation | Works | | | | | | | | | | | |
| | C6 (C3f) - Bored Piles (2.00m dia. x 3 nos) | 60 | 10-Feb-15 A | 62% | 23 | 21-Apr-15 | 24-Feb-15 | 21-Mar-15 | -22 | 0 | 80% | |
| GFXX196 | C6 (C3f) - Sonic & Interface Coring | 10 | 21-Apr-15 | 0% | 10 | 04-May-15 | 23-Mar-15 | 02-Apr-15 | -22 | 0 | 0% | |
| GFXX197 | C6 (C3f) - Dismantle removable panels of temp. platform | 4 | 04-May-15 | 0% | 4 | 08-May-15 | 08-Apr-15 | 11-Apr-15 | -22 | 0 | 0% | |
| Pile Cap Wor | ks | | | | | | | | | | | |
| SC3F0070 | C6 (C3f) - Marine Pile Cap M2b - Inst.Floating Seal & Casing Head Steelwork | 7 | 23-May-15 | 0% | 7 | 01-Jun-15 | 13-Apr-15 | 21-Apr-15 | -30 | 0 | 0% | |
| SC3F0080 | C6 (C3f) - Marine Pile Cap M2b - Install precast shell in position | 1 | 02-Jun-15 | 0% | 1 | 02-Jun-15 | 22-Apr-15 | 22-Apr-15 | -30 | 0 | 0% | |
| SC3F0090 | C6 (C3f) - Marine Pile Cap M2b - Inst.Access & make Watertight | 3 | 04-Jun-15 | 0% | 3 | 06-Jun-15 | 24-Apr-15 | 27-Apr-15 | -30 | 0 | 0% | |
| SC3F0100 | C6 (C3f) - Marine Pile Cap M2b - Weld Fin plates/Plug Rebar & Concrete | 8 | 08-Jun-15 | 0% | 8 | 19-Jun-15 | 28-Apr-15 | 07-May-15 | -30 | 0 | 0% | |
| Bridge C3 | | | | | | | | | | | | |
| Pier C7 (C3e) | | | | | | | | | | | | |
| Socketted H | -Pile Installation | | | | | | | | | | | |
| GFXX398 | C7 (C3e) - Install SH Pile (16 no.) | 120 | 27-Jan-15 A | 55% | 54 | 29-May-15 | 14-Jul-15 | 15-Sep-15 | 90 | 0 | 55% | |
| Pile Cap Wor | | | | | _ | | | | | | | |
| SC3E0090 | C7 (C3e) - Pile cap Excavation / ELS | 20 | 21-Mar-15 | 0% | 20 | 18-Apr-15 | 08-Aug-15 | 02-Sep-15 | 100 | 0 | 0% | |
| SC3E0092 | C7 (C3e) - Pile cap Pile breakdown to cut-off etc. | 4 | 20-Apr-15 | 0% | 4 | 24-Apr-15 | 03-Sep-15 | 07-Sep-15 | 100 | 21 | 0% | |
| | C7 (C3e) - Pile cap Blinding | 1 | 23-May-15 | 0% | 1 | 23-May-15 | 08-Sep-15 | 08-Sep-15 | 79 | 0 | 0% | |
| SC3E0110 | C7 (C3e) - Pile cap Formwork | 3 | 30-May-15 | 0% | 3 | 02-Jun-15 | 15-Sep-15 | 18-Sep-15 | 79 | 0 | 0% | |
| SC3E0120 | C7 (C3e) - Pile cap Rebarwork | 4 | 26-May-15 | 0% | 4 | 29-May-15 | 10-Sep-15 | 14-Sep-15 | 79 | 0 | 0% | |
| SC3E0122 | C7 (C3e) - Pile cap Kicker Formwork | 2 | 05-Jun-15 | 0% | 2 | 06-Jun-15 | 25-Sep-15 | 26-Sep-15 | 83 | 4 | 0% | |
| SC3E0130 | C7 (C3e) - Pile cap Concreting | 1 | 04-Jun-15 | 0% | 1 | 04-Jun-15 | 19-Sep-15 | 19-Sep-15 | 79 | 0 | 0% | 1 |
| Actual Work | Project ID: J3518DWPrE-M22 | Tuen Mun - C | hek Lap Kok I | _ink - Sou | thern C | Connection | | Date | Revis | sion | Checked | Approve |
| Planned Bar | Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CQ | 3-Month Rollin | • | | | | jes) | 09-Mar-15 | | | B | |
| Critical Bar | Milestones, No Level of Effort. | | Progress as | • | - | - | - | 31-Mar-15 | | V | /Y | |
| | | | | | | | | 1 | | | | |



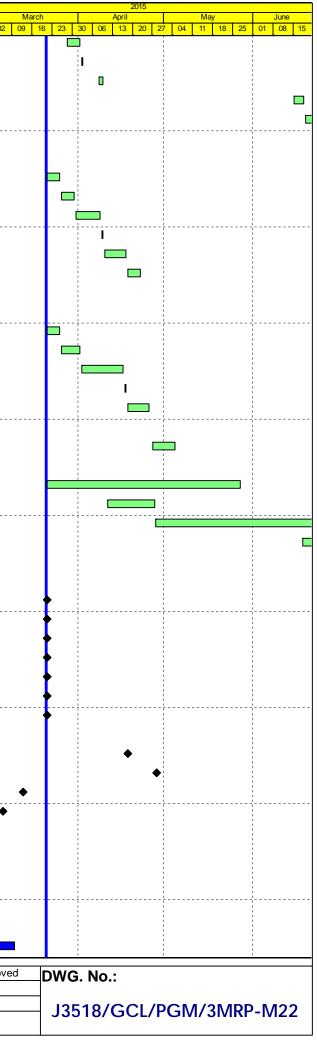
| | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical 9 Complet | % ete 23 |
|-------------------------|--|----------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|-----------------------|----------------|
| SC3E0140 | C7 (C3e) - Pile cap Curing & Striking of Forms incl. CJ prep | 6 | 05-Jun-15 | 0% | 6 | 13-Jun-15 | 21-Sep-15 | 26-Sep-15 | 79 | 0 | 0% | |
| Pier Works | | | | 1 | | 1 | <u> </u> | | | | | |
| SC3E0150 | C7 (C3e) - Type 5B Pier Scaffolding (1st Lift) | 2 | 15-Jun-15 | 0% | 2 | 16-Jun-15 | 29-Sep-15 | 30-Sep-15 | 79 | 7 | 0% | % |
| Pier C8 (C3d) | | | | 1 | | 1 | | | | | | |
| Pile Cap Wor | ks | | | | | | | | | | | |
| SC3D0090 | C8 (C3d) - Pile cap Excavation / ELS (incl. sheet piling) | 36 | 08-Feb-15 A | 60% | 14 | 11-Apr-15 | 18-Sep-15 | 07-Oct-15 | 132 | 0 | 60% | % |
| SC3D0092 | C8 (C3d) - Pile cap Pile breakdown to cut-off etc. | 4 | 11-Apr-15 | 0% | 4 | 17-Apr-15 | 08-Oct-15 | 12-Oct-15 | 132 | 27 | 0% | % |
| SC3D0100 | C8 (C3d) - Pile cap Blinding | 1 | 23-May-15 | 0% | 1 | 23-May-15 | 13-Oct-15 | 13-Oct-15 | 105 | 0 | 0% | % |
| SC3D0110 | C8 (C3d) - Pile cap Formwork | 3 | 30-May-15 | 0% | 3 | 02-Jun-15 | 20-Oct-15 | 23-Oct-15 | 105 | 0 | 0% | % |
| SC3D0120 | C8 (C3d) - Pile cap Rebarwork | 4 | 26-May-15 | 0% | 4 | 29-May-15 | 15-Oct-15 | 19-Oct-15 | 105 | 0 | 0% | % |
| SC3D0122 | C8 (C3d) - Pile cap Kicker Formwork | 2 | 05-Jun-15 | 0% | 2 | 06-Jun-15 | 31-Oct-15 | 02-Nov-15 | 109 | 4 | 0% | % |
| SC3D0130 | C8 (C3d) - Pile cap Concreting | 1 | 04-Jun-15 | 0% | 1 | 04-Jun-15 | 24-Oct-15 | 24-Oct-15 | 105 | 0 | 0% | % |
| SC3D0140 | C8 (C3d) - Pile cap Curing & Striking of Forms incl. CJ prep | 6 | 05-Jun-15 | 0% | 6 | 13-Jun-15 | 26-Oct-15 | 02-Nov-15 | 105 | 0 | 0% | % |
| Pier Works | | | | | | |]] | | | | | |
| SC3D0150 | C8 (C3d) - Type 5B Pier Scaffolding (1st Lift) | 2 | 15-Jun-15 | 0% | 2 | 16-Jun-15 | 03-Nov-15 | 04-Nov-15 | 105 | 0 | 0% | % |
| | C8 (C3d) - Type 5B Pier Rebarwork (1st Lift) | 3 | 18-Jun-15 | 0% | 3 | 22-Jun-15 | 05-Nov-15 | 07-Nov-15 | 105 | 0 | 0% | % |
| Pier C9 (C3c) | | | | I | | | | | | | | - + |
| Pile Cap Wor | ks | | | | | | | | | | | |
| · · · | C9 (C3c) - Pile cap Excavation / ELS (incl. sheet piling) | 18 | 28-Feb-15 A | 100% | 0 | 07-Mar-15 A | | | | | 100% | % |
| | C9 (C3c) - Pile cap Pile breakdown to cut-off etc. | 4 | 09-Mar-15 A | 100% | 0 | 21-Mar-15 A | | | | | 100% | |
| | C9 (C3c) - Pile cap Blinding | 1 | 21-Mar-15 A | 100% | 0 | 21-Mar-15 A | | | | | 100% | _ |
| | C9 (C3c) - Pile cap Formwork | 3 | 26-Mar-15 | 0% | 3 | 28-Mar-15 | 18-Nov-15 | 20-Nov-15 | 174 | 0 | 0% | |
| | C9 (C3c) - Pile cap Rebarwork | 4 | 21-Mar-15 | 0% | 4 | 25-Mar-15 | 13-Nov-15 | 17-Nov-15 | 174 | 0 | 0% | |
| | C9 (C3c) - Pile cap Kicker Formwork | 2 | 31-Mar-15 | 0% | 2 | 01-Apr-15 | 27-Nov-15 | 28-Nov-15 | 178 | 4 | 0% | |
| | C9 (C3c) - Pile cap Concreting | 1 | 30-Mar-15 | 0% | 1 | 30-Mar-15 | 21-Nov-15 | 21-Nov-15 | 174 | 0 | 0% | |
| | C9 (C3c) - Pile cap Curing & Striking of Forms incl. CJ prep | 6 | 31-Mar-15 | 0% | 6 | 10-Apr-15 | 23-Nov-15 | 21-Nov-15 | 174 | 0 | 0% | |
| Pier Works | C3 (C3C) - File Cap Curing & Striking of Forms incl. C3 prep | 0 | 31-Ivial-15 | 0 78 | 0 | 10-Api-15 | 25-1100-15 | 20-1100-13 | 174 | 0 | 07 | ° |
| | C9 (C3c) - Type 5B Pier Scaffolding (1st Lift) | 2 | 11-Apr-15 | 0% | 2 | 13-Apr-15 | 30-Nov-15 | 01-Dec-15 | 174 | 0 | 0% | 27 |
| | | 3 | · | | | • | | | | | | |
| | C9 (C3c) - Type 5B Pier Rebarwork (1st Lift) | - | 14-Apr-15 | 0% | 3 | 17-Apr-15 | 02-Dec-15 | 04-Dec-15 | 174 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 18-Apr-15 | 0% | 2 | 20-Apr-15 | 05-Dec-15 | 07-Dec-15 | 174 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Concreting (1st Lift) | 1 | 21-Apr-15 | 0% | 1 | 21-Apr-15 | 08-Dec-15 | 08-Dec-15 | 174 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 22-Apr-15 | 0% | 2 | 24-Apr-15 | 09-Dec-15 | 12-Dec-15 | 176 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Scaffolding (2nd Lift) | 2 | 25-Apr-15 | 0% | 2 | 27-Apr-15 | 14-Dec-15 | 15-Dec-15 | 176 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Rebarwork (2nd Lift) | 3 | 28-Apr-15 | 0% | 3 | 30-Apr-15 | 16-Dec-15 | 18-Dec-15 | 176 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift) | 3 | 02-May-15 | 0% | 3 | 05-May-15 | 19-Dec-15 | 22-Dec-15 | 176 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Concreting (2nd Lift) | 1 | 06-May-15 | 0% | 1 | 06-May-15 | 23-Dec-15 | 23-Dec-15 | 176 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 07-May-15 | 0% | 2 | 08-May-15 | 24-Dec-15 | 29-Dec-15 | 177 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Scaffolding (3rd Lift) | 2 | 09-May-15 | 0% | 2 | 11-May-15 | 30-Dec-15 | 31-Dec-15 | 177 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Rebarwork (3rd Lift) | 2 | 13-May-15 | 0% | 2 | 14-May-15 | 02-Jan-16 | 04-Jan-16 | 177 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Formwork & Prep for Concreting (3rd Lift) | 2 | 15-May-15 | 0% | 2 | 16-May-15 | 05-Jan-16 | 06-Jan-16 | 177 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Concreting (3rd Lift) | 1 | 18-May-15 | 0% | 1 | 18-May-15 | 07-Jan-16 | 07-Jan-16 | 177 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (3rd Lift) | 2 | 19-May-15 | 0% | 2 | 20-May-15 | 08-Jan-16 | 09-Jan-16 | 177 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Head Scaffolding | 3 | 22-May-15 | 0% | 3 | 26-May-15 | 11-Jan-16 | 13-Jan-16 | 177 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Head Rebarwork | 4 | 27-May-15 | 0% | 4 | 30-May-15 | 14-Jan-16 | 18-Jan-16 | 177 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Head Formwork & Prep for Concreting | 4 | 01-Jun-15 | 0% | 4 | 05-Jun-15 | 19-Jan-16 | 22-Jan-16 | 177 | 0 | 0% | |
| | C9 (C3c) - Type 5B Pier Head Concreting | 1 | 06-Jun-15 | 0% | 1 | 06-Jun-15 | 23-Jan-16 | 23-Jan-16 | 177 | 0 | 0% | 6 |
| SC3C0310 | C9 (C3c) - Type 5B Pier Head Curing/Striking of Forms/Remove Scaffoldin | g 6 | 08-Jun-15 | 0% | 6 | 16-Jun-15 | 25-Jan-16 | 30-Jan-16 | 177 | 0 | 0% | 6 |
| SC3C0320 | C9 (C3c) - Type 5B Pier Backfilling Works | 4 | 18-Jun-15 | 0% | 4 | 24-Jun-15 | 01-Feb-16 | 04-Feb-16 | 177 | 0 | 0% | 6 |
| Actual W | Project ID: J3518DWPrE-M22 | Tuen Mun - Cl | nek I an Kok I | ink - Sou | thern (| Connection | | Date | Revis | sion | Checked | |
| Actual Work Planned Bar | Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CO | 3-Month Rollin | - | | | | (20) | 09-Mar-15 | | | DB | |
| Fianineu Dai | | | | | | | | | | | | |



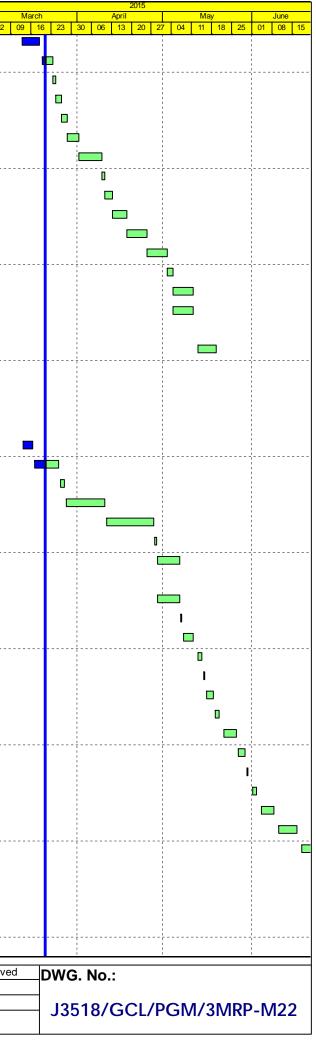
| Per CH (CA) GTAXUES (CM) (CA): Dard SH (CA) (CA) (CA) 10 10 Junr 15 Å 10 00 Junr 15 Å 10 1 | Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|--|---------------------------------------|--|----------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|-------|
| Formation Norma Formation | Pier C10 (C3b) | | | | | | | | | | | | 23 (|
| GP SN242Dir | | | | | | | | | | | | | |
| Fine Cit Cia) Fine Addition Fine Add | GFXX418 C10 (C3b) - Bored Pile | (2.20m dia. x 2 nos) | 51 | 19-Jan-15 A | 75% | 13 | 09-Apr-15 | 29-Jun-15 | 14-Jul-15 | 78 | 0 | 75% | |
| Foundation Works Subserved | GFXX421-2 C10 (C3b) - Sonic & In | erface Coring Tests | 12 | 06-Jun-15 | 0% | 12 | 19-Jun-15 | 05-Aug-15 | 18-Aug-15 | 49 | 0 | 0% | |
| GF7X411Cf1 (Ch). Parce Pin (2 Dhr din x 2 ran)44044.94.94.94.94.94.94.GF7X421.3Cf1 (Ch). Same Pin (2 Dhr din x 2 ran)Cf212 Mar. 16A94094.94.94.94.GF7X421.2Cf2 (Ch). Pance Pin (2 Dhr din x 2 ran)Cf021 Mar. 16A91.17.4mr. 114.5mr. 1510.5mr. 15 | Pier C11 (C3a) | | | | 1 | | | | | | | | |
| GFX2047-1 OH Charge Car OH-Sep C O | Foundation Works | | | | | | | | | | | | |
| Bridge C Mark C 12 (C2) Mark C 12 (C | GFXX416 C11 (C3a) - Bored Pile | (2.00m dia. x 2 nos) | 45 | 24-Jan-15 A | 95% | 2 | 24-Mar-15 | 30-Mar-17 | 01-Apr-17 | 602 | 91 | 95% | |
| Pier Cal Cal : Vier Series Se | GFXX421-3 C11 (C3a) - Sonic & Int | erface Coring Tests | 12 | 12-Mar-15 A | 30% | 8 | 31-Mar-15 | 01-Sep-15 | 10-Sep-15 | 133 | 0 | 30% | |
| Function Vorke Service | Bridge C2 | | | | | | | | | | | | |
| GFXx412 C12 (C21) - Bonel Ainstance Camping Tests 12 C17 Apen-15 14 19 17 Apen-15 14 10 17 Apen-15 00-Konv-15 14 0 07 Min GFXX413 C12 (C21) - Booken Ainstance Camping For ThDogh Coung 24 17 Apen-15 0% 12 00-Kay-15 0.4 10 0.0 | Pier C12 (C2f) | | | | | | | | | | | | |
| GPXX413 C12 (C21) - Souck & Interface Caring Tests 12 17 Apr.15 0% 24 GPXX424 C12 (C21) - Souck interface Caring & Testing 24 17 Apr.15 0% 24 16 Abay-15 0.84 06 Abov-15 144 0 0% GPXX428 C12 (C21) - Souch interface Caring & Testing 244 16 Abay-15 0.84 16 Abay-15 0.84 16 Abay-15 0.84 06 Abov-15 06 Abov-15 18 4 0 0% GPXX428 C13 (C20) - Loading Test for pre-bored H-pile 24 21 Abar-15 0% 24 22 Apr.15 22 Apr.15 18 App.15 124 0 0% GPXX389 C13 (C20) - Loading Test for pre-bored H-pile 24 21 Abar-15 0% 18 04-Jabr.15 04 Nov-15 124 0 0% GPXX389 C13 (C20) - Loading Test for pre-bored H-pile 24 21 Abar-15 0% 18 04-Jabr.15 04 Nov-15 124 0 0% 0% 18 04-Jabr.15 04 Nov-15 124 0 0% 0% 16 04 Nov-15 124 10 0% 0% 0% 16 04 | Foundation Works | | | | | | | | | | | | |
| GPXX424 C12 (C2) - Selection of bore plu ber Full Depth Coring X Texing 24 17-Apr. 15 0% 24 16-May- 16 0%-02-15 04-Mon-15 144 0 0% GPXX422+ C12 (C2) - Selection Full Depth Coring X Texing 24 18-May-16 0% 24 15-May-15 04-Dan-15 144 0 0% GPXX422+ C12 (C2) - Selection Full Depth Coring X Texing 24 21-May-15 0% 24 22-Apr. 15 22-Apr. 15 22-Apr. 15 0.8-Apr. 15 0.8 0 0% 0 0 0% 0 0 0% 0 0 0 0 0% 0 0 0 0% 0 | GFXX412 C12 (C2f) - Bored Pile | (2.00m dia. x 2 nos) | 66 | 21-Jan-15 A | 71% | 19 | 17-Apr-15 | 14-Sep-15 | 08-Oct-15 | 144 | 0 | 71% | |
| GFXX422 C12 (22): Berder Pile Full Depth Coring & Tassing 24 16 May 15 0% 24 15 Jahr 15 07 Nov.15 04 De 15 14 0 0% FBr C13 (C28) Dertal Salaward Markan 24 21-Mar 15 0% 24 22-Mar 15 24-Mar 15 0% 0.0 05-San 15 10% 0.0 05-San 15 0.0 0. | GFXX413 C12 (C2f) - Sonic & Inte | erface Coring Tests | 12 | 17-Apr-15 | 0% | 12 | 02-May-15 | 24-Oct-15 | 06-Nov-15 | 156 | 12 | 0% | |
| Per C13 (C2a) Portal Per C13 (| GFXX422-4 C12 (C2f) - Selection of | f bored pile for Full Depth Coring | 24 | 17-Apr-15 | 0% | 24 | 16-May-15 | 09-Oct-15 | 06-Nov-15 | 144 | 0 | 0% | |
| Sockated H=InstallationGFX20394 (51 (C2e) - Socktion of pile for bradning Test for pre-borred H-pile2421-Mart 50%2422-Apr 1618-Sep 1612400%GFX20394 (51 (C2e) - Loading Test for pre-borred H-pile3623-Apr 150%1806-Jun 1618-Sep 1618-Sep 1612400%Pile Cap Work538 (C2e Andring Test for pre-borred H-pile3606-Jun 150%1804-Jul 1504-Nov 1524-Nov 1514000Pile Cap More538 (C2e Andring Test for pre-borred H-pile7002-Feb 160002-Nov 151000< | GFXX422-8 C12 (C2f) - Bored Pile | Full Depth Coring & Testing | 24 | 16-May-15 | 0% | 24 | 15-Jun-15 | 07-Nov-15 | 04-Dec-15 | 144 | 0 | 0% | |
| GPXX389-4 C13 (C2e) - Selction of pile for Loading Test 24 21-Mar-15 0% 24 22-Apr-15 22-Apr-15 19-Sep-15 0.18-Sep-15 0.14 0.0 0% GPXX389-5 C13 (C2e) - Loading Test for probed H-pile 36 23-Apr-15 0% 36 0.5-Abur-15 19-Sep-15 0.5-Nov-15 124 0.0 0% BPIC 2D C13 (C2e) - Loading Test for probed H-pile 18 06-Jun-15 16% 0.4 0.4 0.4-Jul-15 0.4-Nov-15 2.4-Nov-15 1.4 0.0 0% BPIC 2D C14 (C2d) - Install SH Pile (12 nr) 600 07-Jan-16.A 100% 0 2.8-Fab-15.A 1.0 1.0 0.0 1.00% GPXX381-2 C14 (C2d) - Install SH Pile (12 nr) 600 07-Jan-16.A 100% 0 2.1-Mar-15 1.0 1.0 1.00% GPXX381-2 C14 (C2d) - Install SH Pile (13 nr) 600 19-Jan-15 100% 0 2.1-Mar-15 1.0 1.0 1.00% 1.0 1.1-Mar-15 1.0 1.0 1.00% 1.0 1.1-Mar-15 1.0 1.0 1.0 1.00% 1.0 | Pier C13 (C2e) Portal | | | | | | | | | | | | |
| GRX339-8C13 (C2a) - Loading Test for pre-bored H-pile3823 -Apr.159%3605 -Apr.1598 -Apr.1599 -Apr.1510 -Apr.1599 -Apr.1510 -Apr.1599 -Apr.1510 -Apr.1510 -Apr.1510 -Apr | Socketted H-Pile Installation | | | | | | | | | | | | |
| Pie Cap WorksFile Cap Parale cap Excavation / ELSNo. <td>GFXX399-4 C13 (C2e) - Selction of</td> <td>pile for Loading Test</td> <td>24</td> <td>21-Mar-15</td> <td>0%</td> <td>24</td> <td>22-Apr-15</td> <td>22-Aug-15</td> <td>18-Sep-15</td> <td>124</td> <td>0</td> <td>0%</td> <td></td> | GFXX399-4 C13 (C2e) - Selction of | pile for Loading Test | 24 | 21-Mar-15 | 0% | 24 | 22-Apr-15 | 22-Aug-15 | 18-Sep-15 | 124 | 0 | 0% | |
| S2ER090 C13B (22e-R) - Pie cap Excavation / ELS 18 06-Jun-15 0% 18 04-Jul-15 04-Nov-15 24-Nov-15 111 0 0% Fire C14 (224) Seckettal + File issail Stall | GFXX399-6 C13 (C2e) - Loading Te | est for pre-bored H-pile | 36 | 23-Apr-15 | 0% | 36 | 05-Jun-15 | 19-Sep-15 | 03-Nov-15 | 124 | 0 | 0% | |
| Pier C14 (C22) Socketted H-Pile Installation Socke | Pile Cap Works | | | | | | | | | | | | |
| Socketted Hie InstallationGFX261-2C14 (C2g) - Instal SH Pile (12 nr)6006067-Jan-15A100%028-Fab-15AIIII100%Pior C13 (C2g) - Instal SH Pile (12 nr)60019-Jan-15A100%011-Ian-15AIII | SC2ER090 C13B (C2e-R) - Pile ca | p Excavation / ELS | 18 | 06-Jun-15 | 0% | 18 | 04-Jul-15 | 04-Nov-15 | 24-Nov-15 | 111 | 0 | 0% | |
| GPXX81-2C14 (C2d) - Instail SH Pile (12 m)6007-Jan-15A100%0028-Feb-1AIII <th< td=""><td>Pier C14 (C2d)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<> | Pier C14 (C2d) | | | | | | | | | | | | |
| Pier C15 (C2) Socketted H-Pie Installation Socket | Socketted H-Pile Installation | | | | | | | | | | | | |
| Societted H-Pile InstallationGFXX381-3C15 (C2;) Install SH Pile (13 nr)6019-Jan-15A100%021-Mar-15AIII100%Fire C15 (C2;FoundationFire C16 (C2;State C10, State C10 | GFXX381-2 C14 (C2d) - Install SH | Pile (12 nr) | 60 | 07-Jan-15 A | 100% | 0 | 28-Feb-15 A | | | | | 100% | |
| GFXX381-3 C15 (C2c) - Install SH Pile (13 nr) 60 19-Jan-15A 100% 0 21-Mar-15A . . . 100% 100% Pier C15 (C2b) France Second . Second . Second . Second . | Pier C15 (C2c) | | | | | | | | | | | | |
| Pier C16 (C2.5) Foundation Works GFXX408 C16 (C2.5) - Bored Pile (2.00m dia. x 2 nos) 52 13-May-15 0% 52 16 (C2.5) - Bored Pile (2.00m dia. x 2 nos) 52 13-May-15 0% 52 16 (C2.5) - Bored Pile (2.00m dia. x 2 nos) 52 13-May-15 0% 52 16 (C2.5) - Bored Pile (2.00m dia. x 2 nos) 52 11-Jun-15 15. Vol GFXX409 C17 (C2.a) - Bored Pile (2.00m dia. x 2 nos) 52 09-Apr-15 0% 52 11-Jun-15 15. Vol GFXX409 C17 (C2.a) - Sonic & Interface Coring Tests C17 C2.a) - Sonic & Interface Coring Tests C17 C2.a) - Sonic & Interface Coring Tests C17 C17 C2.a) - Sonic & Interface Coring Tests C17 C2.a) - Sonic & Interface Coring Tests C17 | Socketted H-Pile Installation | | | | | | | | | | | | |
| Foundation Voltage Second Pile (2.00m dia. x 2 nos) Second Pile (2.00m d | GFXX381-3 C15 (C2c) - Install SH F | Pile (13 nr) | 60 | 19-Jan-15 A | 100% | 0 | 21-Mar-15 A | | | | | 100% | |
| GFXX408 C16 (C2b) - Bored Pile (2,00m dia, x 2 nos) 52 13 - May-15 0 17 - Aug-15 17 - Aug-15 </td <td>Pier C16 (C2b)</td> <td></td> | Pier C16 (C2b) | | | | | | | | | | | | |
| Bridge C1 Vert No. | Foundation Works | | | | | | | | | | | | |
| Pier C17 (C2a) Foundation GFXX406 C17 (C2a) - Bored Pile (2.00m dia. x 2 nos) S 09-Apr-15 0% 52 11-Jun-15 15-Jul-15 12-Sep-15 78 0% GFXX409 C17 (C2a) - Sonic & Interface Coring Tests 12 11-Jun-15 0% 52 11-Jun-15 15-Jul-15 12-Sep-15 78 0 GFXX409 C17 (C2a) - Sonic & Interface Coring Tests 11-Jun-15 0% 52 12-Sun-15 10-Nov-15 23-Nov-15 12 01-Nov-15 23-Nov-15 12 01-Nov-15 23-Nov-15 12 01-Nov-15 23-Nov-15 12 01-Nov-15 23-Nov-15 01 02-Nov-15 04 01 04-Nov-15 04-Nov-15 04-Nov-16 | · · · · · | (2.00m dia. x 2 nos) | 52 | 13-May-15 | 0% | 52 | 16-Jul-15 | 17-Aug-15 | 17-Oct-15 | 78 | 0 | 0% | |
| Foundation Vers GFXX406 C17 (C2a) - Bored Pile (2.00m dia. x 2 nos) 52 09-Apr-15 0% 52 11-Jun-15 15-Jul-15 12-Sep-15 78 0 0% GFXX409-2 C17 (C2a) - Sonic & Interface Coring Tests 12 11-Jun-15 0% 12 26-Jun-15 10-Nov-15 23-Nov-15 124 0 0% Pier C18 (C3-Verst Verst | | | | | | | | | | | | | |
| GFXX406C17 (C2a) + Bored Pile (2.00m dia. x 2 nos)5209-Apr-150%5211-Jun-1515-Jul-1512-Sep-157800%GFXX4092C17 (C2a) - Sonic & Interface Coring TestsC1211-Jun-150%1226-Jun-1510-Nov-1523-Nov-157800%Pile C2B USE | | | | | | | | | | | | | |
| GFXX409-2C17 (C2a) - Sonic & Interface Coring Tests121211-Jun-150%1226-Jun-1510-Nov-1523-Nov-1512400%Pite C3B (C3 - VortaPite Cap WorksSC1ER090C18B (C1e-R) - Pile cap Excavation / ELS1809-Mar-15A80%425-Mar-1504-May-1609-May-16310080%SC1ER092C18B (C1e-R) - Pile cap Excavation / ELS1809-Mar-15A0%430-Mar-1509-May-1613-May-16310300%SC1ER092C18B (C1e-R) - Pile cap Blinding1123-May-150%1423-May-1509-May-1613-May-163103100%SC1ER100C18B (C1e-R) - Pile cap FormworkC18B (C1e-R) - Pile cap Formwork1426-May-150%1423-May-1513-May-1616-May-1627200%SC1ER100C18B (C1e-R) - Pile cap Rebarwork426-May-150%1429-May-1516-May-1621-May-1627200%SC1ER120C18B (C1e-R) - Pile cap Rebarwork426-May-150%429-May-1516-May-1621-May-1627200%SC1ER120C18B (C1e-R) - Pile cap Kicker Formwork200%140%1404-Jun-150%1404-Jun-1606-Jun-1627200%SC1ER120C18B (C1e-R) - Pile cap Kicker Formwork200%20%1404-Jun-150%14 | | | | | | | | | - | | | | |
| Pier C18 (C3) Portal Pier C18 (C18 Pier A Pile cap Exavation / ELS SC1ER090 C18B (C1e-R) - Pile cap Exavation / ELS 18 09-Mar-15 A 80% 4 25-Mar-15 04-May-16 09-May-16 310 0 80% SC1ER092 C18B (C1e-R) - Pile cap Exavation / ELS 4 25-Mar-15 0% 4 30-Mar-15 09-May-16 310 0 80% SC1ER092 C18B (C1e-R) - Pile cap Pile breakdown to cut-off etc 4 25-Mar-15 0% 4 30-Mar-15 09-May-16 310 07 0% SC1ER100 C18B (C1e-R) - Pile cap Pile breakdown to cut-off etc 1 23-May-15 0% 1 23-May-15 13-May-16 16-May-16 272 0 0% SC1ER100 C18B (C1e-R) - Pile cap Rebarwork 3 30-May-15 0% 4 29-May-15 16-May-16 272 0 0% SC1ER120 C18B (C1e-R) - Pile cap Rebarwork 4 26-May-15 0% 4 29-May-15 16-May-16 272 0 0% | . , | | | | | | | | • | | | | - 1 |
| Pile Cap Works SC1ER090 C18B (C1e-R) - Pile cap Excavation / ELS 18 09-Mar-15A 80% 4 25-Mar-15 04-May-16 09-May-16 310 0 80% SC1ER090 C18B (C1e-R) - Pile cap Pile breakdown to cut-off etc 4 25-Mar-15 0% 4 30-Mar-15 09-May-16 09-May-16 310 0 80% SC1ER092 C18B (C1e-R) - Pile cap Pile breakdown to cut-off etc 4 25-Mar-15 0% 4 30-Mar-15 09-May-16 13-May-16 310 0 80% SC1ER100 C18B (C1e-R) - Pile cap Bilnding 11 23-May-15 0% 1 23-May-15 13-May-16 272 0 0% SC1ER100 C18B (C1e-R) - Pile cap Rebarwork 3 30-May-15 0% 3 02-Jun-15 21-May-16 272 0 0% SC1ER102 C18B (C1e-R) - Pile cap Rebarwork 4 26-May-15 0% 4 29-May-15 16-May-16 21-May-16 272 0 0% SC1ER122 C18B (C1e-R) - Pile cap Kicker For | . , | erface Coring Tests | 12 | 11-Jun-15 | 0% | 12 | 26-Jun-15 | 10-Nov-15 | 23-Nov-15 | 124 | 0 | 0% | |
| SC1ER090 C18B (C1e-R) - Pile cap Excavation / ELS 18 09-Mar-15A 80% 4 25-Mar-15 04-May-16 09-May-16 310 0 80% SC1ER092 C18B (C1e-R) - Pile cap Pile breakdown to cut-off etc 4 25-Mar-15 0% 4 30-Mar-15 09-May-16 13-May-16 310 07 90% SC1ER092 C18B (C1e-R) - Pile cap Pile breakdown to cut-off etc 4 25-Mar-15 0% 4 30-Mar-15 09-May-16 13-May-16 310 07 90% SC1ER100 C18B (C1e-R) - Pile cap Blinding 11 23-May-15 0% 1 23-May-15 13-May-16 16-May-16 272 0 0% SC1ER100 C18B (C1e-R) - Pile cap Formwork 33 30-May-15 0% 3 02-Jun-15 21-May-16 25-May-16 272 0 0% SC1ER120 C18B (C1e-R) - Pile cap Rebarwork 4 26-May-15 0% 4 29-May-15 16-May-16 21-May-16 272 0 0% SC1ER120 C18B (C1e-R) - Pile cap Kicker Formwork 2 05-Jun-15 0% 2 06-Jun-16 | | | | | | | | | | | | | |
| SC1ER092 C18B (C1e-R)- Pile cap Pile breakdown to cut-off etc 4 25-Mar-15 0% 4 30-Mar-15 09-May-16 13-May-16 310 37 0% SC1ER100 C18B (C1e-R)- Pile cap Blinding 1 23-May-15 0% 1 23-May-15 13-May-16 16-May-16 272 0 0% SC1ER100 C18B (C1e-R)- Pile cap Formwork 3 30-May-15 0% 3 02-Jun-15 21-May-16 272 0 0% SC1ER100 C18B (C1e-R)- Pile cap Rebarwork 3 30-May-15 0% 3 02-Jun-15 21-May-16 272 0 0% SC1ER100 C18B (C1e-R)- Pile cap Rebarwork 4 26-May-15 0% 4 29-May-15 16-May-16 272 0 0% SC1ER120 C18B (C1e-R)- Pile cap Rebarwork 4 26-May-15 0% 4 29-May-15 16-May-16 272 0 0% SC1ER120 C18B (C1e-R)- Pile cap Kicker Formwork 2 05-Jun-15 0% 2 06-Jun-16 06-Jun-16 277 4 0% 0% SC1ER120 | | | | 00.14 | 0.001 | | 05.14 | 04.14 | 00.11 | 0.1.5 | 2 | | |
| SC1ER100 C18B (C1e-R)- Pile cap Blinding 1 23-May-15 0% 1 23-May-15 13-May-16 16-May-16 272 0 0% SC1ER100 C18B (C1e-R)- Pile cap Blinding 3 30-May-15 0% 3 02-Jun-15 21-May-16 272 0 0% SC1ER100 C18B (C1e-R)- Pile cap Formwork 3 30-May-15 0% 3 02-Jun-15 21-May-16 272 0 0% SC1ER120 C18B (C1e-R)- Pile cap Rebarwork 4 26-May-15 0% 4 29-May-15 16-May-16 272 0 0% SC1ER122 C18B (C1e-R)- Pile cap Kicker Formwork 2 05-Jun-15 0% 4 29-May-15 16-May-16 277 4 0% SC1ER122 C18B (C1e-R)- Pile cap Concreting 1 04-Jun-15 0% 1 04-Jun-15 25-May-16 272 0 0% SC1ER130 C18B (C1e-R)- Pile cap Concreting 1 04-Jun-15 0% 1 04-Jun-15 25-May-16 272 0 0% | . , | | | | | | | | - | | | | |
| SC1ER10 C18B (C1e-R)- Pile cap Formwork 3 30-May-15 0% 3 02-Jun-15 21-May-16 272 0 0% SC1ER120 C18B (C1e-R)- Pile cap Rebarwork 4 26-May-15 0% 4 29-May-15 16-May-16 272 0 0% SC1ER120 C18B (C1e-R)- Pile cap Rebarwork 4 26-May-15 0% 4 29-May-15 16-May-16 272 0 0% SC1ER122 C18B (C1e-R)- Pile cap Kicker Formwork 2 05-Jun-15 0% 2 06-Jun-16 277 4 0% SC1ER130 C18B (C1e-R)- Pile cap Concreting 1 04-Jun-15 0% 1 04-Jun-15 25-May-16 272 0 0% | , , . | | | | | | | | | | | | |
| SC1ER120 C18B (C1e-R)- Pile cap Rebarwork 4 26-May-15 0% 4 29-May-15 16-May-16 21-May-16 272 0 0% SC1ER122 C18B (C1e-R)- Pile cap Kicker Fornwork 2 05-Jun-15 0% 2 06-Jun-15 01-Jun-16 06-Jun-16 277 4 0% SC1ER130 C18B (C1e-R)- Pile cap Concreting 1 04-Jun-15 0% 1 04-Jun-15 25-May-16 272 0 0% | . , . | • | | - | | · · | | | | | | | |
| SC1ER122 C18B (C1e-R)- Pile cap Kicker Formwork 2 05-Jun-15 0% 2 06-Jun-15 01-Jun-16 277 4 0% SC1ER130 C18B (C1e-R)- Pile cap Concreting 1 04-Jun-15 0% 1 04-Jun-15 25-May-16 277 4 0% | , , , | | | | | | | | - | | | | - E |
| SC1ER130 C18B (C1e-R)- Pile cap Concreting 1 04-Jun-15 0% 1 04-Jun-15 25-May-16 272 0 0% | , , , , , , , , , , , , , , , , , , , | | | | | | | | | | | | |
| | . , . | | | | | 2 | | | | | | | |
| | · · · · · | | | | | 1 | | | | | | | - |
| SC1ER140 C18B (C1e-R) - Pile cap Curing & Striking of Forms incl. CJ prep 6 05-Jun-15 0% 6 13-Jun-15 27-May-16 06-Jun-16 273 0 0% | | p Curing & Striking of Forms incl. CJ prep | 6 | 05-Jun-15 | 0% | 6 | 13-Jun-15 | 27-May-16 | 06-Jun-16 | 273 | U | 0% | |
| | | | | 04.14 | 001 | 2 | 04.14 | 04.14 | 00 1 10 | 0.00 | 6 | | |
| | , | | | | | - | | | | | | 0% | |
| SC1EL160 C18A (C1e-L) - Pier Rebarwork (1st Lift) 3 25-Mar-15 0% 3 27-Mar-15 04-Jun-16 08-Jun-16 329 0 0% | SCIEL160 C18A (C1e-L) - Pier Re | ebarwork (1st Lift) | 3 | 25-Mar-15 | 0% | 3 | 27-Mar-15 | 04-Jun-16 | 08-Jun-16 | 329 | 0 | 0% | |
| Actual Work Project ID: J3518DWPrE-M22 Tuen Mun - Chek Lap Kok Link - Southern Connection Date Revision Checked | | | Tuen Mun - C | hek Lap Kok I | _ink - Sou | thern C | Connection | | | Revis | | | Appro |
| Planned Bar Layout: J3518-DWP-3MRP Submission - M22_ 3-Month Rolling Programme (Page 20 of 41 Pages) 09-Mar-15 DB Critical Bar Filter: TASK filters: 3-Month Lookahead, No CQ 3-Month Rolling Programme (Page 20 of 41 Pages) 09-Mar-15 DB | | | 3-Month Rollin | ng Program | nme (Pa | ge 20 | of 41 Pag | es) | | | | | |
| Critical Bar Milestone Critical Bar Milestones, No Level of Effort. (Progress as of 21-Mar-15) 31-Mar-15 WY | Childai Bai | | (F | Progress as | of 21-N | lar-15 |) | | 31-Mar-15 | | IW | Υ | |
| | | | | | | | | | | | | | |



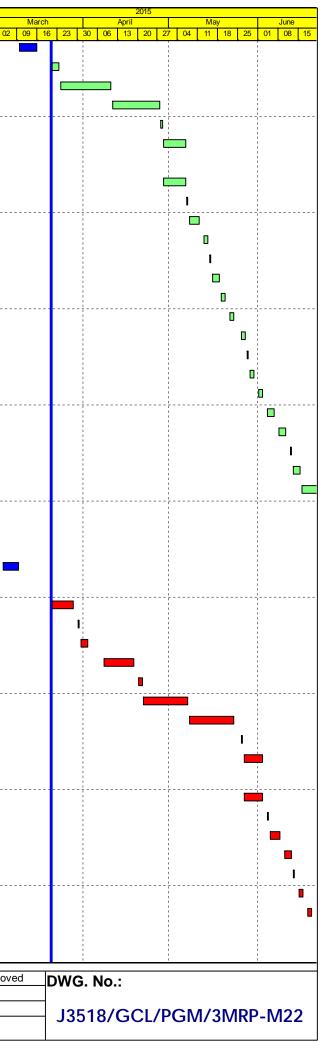
|) | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|-----------------------------|--|-------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------------|-------------|-------------|------------------------|
| SC1EL170 | C18A (C1e-L) - Pier Formwork & Prep for Concreting (1st Lift) | 4 | 28-Mar-15 | 0% | 4 | 01-Apr-15 | 10-Jun-16 | 14-Jun-16 | 329 | 0 | 0% |
| | C18A (C1e-L) - Pier Concreting (1st Lift) | 1 | 02-Apr-15 | 0% | 1 | 02-Apr-15 | 16-Jun-16 | 16-Jun-16 | 329 | 0 | 0% |
| | C18A (C1e-L) - Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 08-Apr-15 | 0% | 2 | 09-Apr-15 | 25-Jun-16 | 27-Jun-16 | 334 | 60 | 0% |
| | C18B (C1e-R) - Pier Scaffolding (1st Lift) | 3 | 15-Jun-15 | 0% | 3 | 18-Jun-15 | 06-Jun-16 | 11-Jun-16 | 273 | 0 | 0% |
| | C18B (C1e-R) - Pier Rebarwork (1st Lift) | 3 | 19-Jun-15 | 0% | 3 | 24-Jun-15 | 11-Jun-16 | 16-Jun-16 | 274 | 0 | 0% |
| Pier C19 (C1c | | Ū | | 070 | Ű | | | | 27.1 | Ū | 0,0 |
| Pier Works | | | | | | | | | | | |
| SC1D0150 | C19 (C1d) - Type 5B-B Pier/Pier Head Scaffolding | 4 | 21-Mar-15 | 0% | 4 | 25-Mar-15 | 07-Nov-16 | 10-Nov-16 | 447 | 0 | 0% |
| SC1D0160 | C19 (C1d) - Type 5B-B Pier/Pier Head Head Rebarwork | 4 | 26-Mar-15 | 0% | 4 | 30-Mar-15 | 11-Nov-16 | 15-Nov-16 | 447 | 0 | 0% |
| | C19 (C1d) - Type 5B-B Pier/Pier Head Formwork & Prep for Concreting | 4 | 31-Mar-15 | 0% | 4 | 08-Apr-15 | 16-Nov-16 | 19-Nov-16 | 447 | 0 | 0% |
| | C19 (C1d) - Type 5B-B Pier/Pier Head Concreting | 1 | 09-Apr-15 | 0% | 1 | 09-Apr-15 | 21-Nov-16 | 21-Nov-16 | 447 | 0 | 0% |
| | C19 (C1d) - Type 5B-B Pier/Pier Head Curing/Striking of Forms/Remove Scaffolding | 6 | 10-Apr-15 | 0% | 6 | 17-Apr-15 | 22-Nov-16 | 28-Nov-16 | 447 | 0 | 0% |
| | C19 (C1d) - Type 5B-B Pier/Pier Head Backfilling Works | 4 | 18-Apr-15 | 0% | 4 | 22-Apr-15 | 29-Nov-16 | 02-Dec-16 | 447 | 152 | 0% |
| | | 4 | 16-Api-15 | 0 /8 | 4 | 22-Apr-15 | 29-1100-10 | 02-Dec-10 | 447 | 152 | 078 |
| Pier C20 (C10 |) & Abutment C | | | | | | | | | | |
| | C20 (C1c) - Pier/Pier Head Scaffolding | 4 | 21-Mar-15 | 0% | 4 | 25-Mar-15 | 14-Oct-16 | 19-Oct-16 | 429 | 0 | 0% |
| | C20 (C1c) - Pier/Pier Head Scanolding C20 (C1c) - Pier/Pier Head Rebarwork | 6 | 21-Mar-15 26-Mar-15 | 0% | 6 | | 14-Oct-16 | 28-Oct-16 | 429 | 0 | 0% |
| | | | | | | 01-Apr-15 | | | | | |
| | C20 (C1c) - Pier/Pier Head Formwork | 8 | 02-Apr-15 | 0% | 8 | 16-Apr-15 | 28-Oct-16 | 08-Nov-16 | 431 | 0 | 0% |
| | C20 (C1c) - Pier/Pier Head Concreting | 1 | 17-Apr-15 | 0% | 1 | 17-Apr-15 | 09-Nov-16 | 09-Nov-16 | 431 | 0 | 0% |
| | C20 (C1c) - Pier/Pier Head Curing & Striking of Forms incl. CJ prep | 6 | 18-Apr-15 | 0% | 6 | 25-Apr-15 | 10-Nov-16 | 16-Nov-16 | 431 | 0 | 0% |
| Pier Head Se | | | | | | | | | | | |
| | C20 (C1c) - Pier Head Segment - Temporary Platform | 6 | 27-Apr-15 | 0% | 6 | 04-May-15 | 17-Nov-16 | 23-Nov-16 | 431 | 137 | 0% |
| - | Approach Ramp C | | 1 | | | | 1 1 | | -11 | | |
| SC1C0200 | Abutment C - Walls & Staircase | 48 | 21-Mar-15 | 0% | 48 | 27-May-15 | 15-Jul-15 | 14-Sep-15 | 81 | 14 | 0% |
| SC1C0250 | AR-C - RE Walls - Erect fencing, Excavation/formation/ drainage filter & bottom layer to grd l | 12 | 11-Apr-15 | 0% | 12 | 27-Apr-15 | 15-Jul-15 | 30-Jul-15 | 67 | 0 | 0% |
| SC1C0251 | AR-C - RE Walls - Upper layers with backfill in stages | 48 | 28-Apr-15 | 0% | 48 | 06-Jul-15 | 31-Jul-15 | 30-Sep-15 | 67 | 0 | 0% |
| SC1C0252 | AR-C - RE Walls - Base Slabs of top RC Walls | 48 | 18-Jun-15 | 0% | 48 | 21-Aug-15 | 15-Sep-15 | 18-Nov-15 | 69 | 0 | 0% |
| /iaduct D | | | | | | | | | | | |
| | Marine Foundation | | | | | | | | | | |
| GFXX228 | Viaduct D - ARUP issuses Pile Spacing & Diameter for Temporary Platform Design | 0 | | 0% | 0 | 21-Mar-15 | | 30-Apr-18 | 920 | 920 | 0% |
| GFXX233-1 | Pier D7 (D3e) - Completion of Piling Works | 0 | | 0% | 0 | 21-Mar-15 | | 01-Apr-17 | 604 | 180 | 0% |
| GFXX238-2 | Pier D6 (D4a) - Completion of Piling Works | 0 | | 0% | 0 | 21-Mar-15 | | 28-Apr-15 | 29 | 54 | 0% |
| GFXX243-3 | Pier D5 (D4b) - Completion of Piling Works | 0 | | 0% | 0 | 21-Mar-15 | | 18-Feb-15 | -23 | 0 | 0% |
| GFXX248-1 | Pier D4 (D4c) - Completion of Piling Works | 0 | | 0% | 0 | 21-Mar-15 | | 30-Jan-15 | -39 | 0 | 0% |
| GFXX253-1 | Pier D3 (D4d) - Completion of Piling Works | 0 | | 0% | 0 | 21-Mar-15 | | 01-Apr-17 | 604 | 180 | 0% |
| GFXX258-2 | Pier D2 (D4e) - Completion of Piling Works | 0 | | 0% | 0 | 21-Mar-15 | | 01-Apr-17 | 604 | 180 | 0% |
| Milestones - | Land Foundation | | | | | | | | | | |
| GFXX446B1 | D15 (D2b) - Completion of piling works | 0 | | 0% | 0 | 18-Apr-15 | | 19-May-15 | 25 | 0 | 0% |
| GFXX454A1 | D13 (D2d) - Completion of piling works | 0 | | 0% | 0 | 28-Apr-15 | | 17-Aug-15 | 92 | 0 | 0% |
| GFXX461C | D12 (D2e) - Start date for piling | 0 | 13-Mar-15 A | 100% | 0 | | | | | | 100% |
| GFXX466-2 | D9 (D3c) - Completion of piling works | 0 | | 100% | 0 | 06-Mar-15 A | | | | | 100% |
| Bridge D3 | | | | | | | | | | | |
| Pier D1 (D4f) | | | | | | | | | | | |
| Pile Cap Wo | rks | | | | | | | | | | |
| SD4F0164 | D1 (D4f) - Marine Pile Cap M2 - Curing incl. CJ preparation | 6 | 18-Feb-15 A | 100% | 0 | 27-Feb-15 A | | | | | 100% |
| Pier Works | | | | | | | | | | | |
| SD4F0170 | D1 (D4f) - Type 4B-MJ Pier Temp. Support Platform | 6 | 22-Feb-15 A | 100% | 0 | 28-Feb-15 A | | | | | 100% |
| SD4F0172 | D1 (D4f) - Type 4B-MJ Pier Scaffolding (1st Lift) | 1 | 03-Mar-15 A | 100% | 0 | 10-Mar-15 A | | | | | 100% |
| | | | | | | <u> </u> | | | <u> </u> | | |
| Actual Work | Laurante 12540 DIVID OMDD Outerstanting MOO | | hek Lap Kok L | | | | ·) | Date 09-Mar-15 | Revis | sion (D | Checked |
| Planned Bar Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CO | | ng Program | • | - | - | jes) | 31-Mar-15 | | | |
| Critical Bar Milestone | Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort. | | Progress as | • | - | - | ,, | 31-Mar-15 | | W | Y |



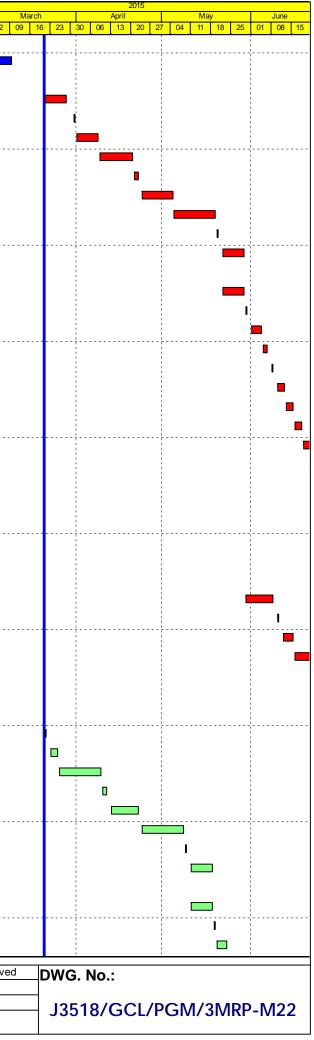
| Activity ID |) | Activity Name | | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|-------------|--|-----------------------------|--|----------|-------------|--------------------------------|------------------------|---------------|----------------------------------|------------------------|------------------------|-------------|------------|------------------------|----------|
| | SD4F0180 | | Pier Rebarwork (1st Lift) | | 3 | 13-Mar-15 A | 100% | 0 | 19-Mar-15 A | | | | | 100% | 23 02 |
| | | | | | 2 | | | 2 | | 01-Jun-15 | 02 hup 15 | 51 | 0 | 100% | |
| | | D1 (D4f) - Type 4B-MJ | Pier Formwork & Prep for Concreting (1st Lift) | | 2 | 20-Mar-15 A 23-Mar-15 | 10% 0% | 2 | 23-Mar-15 24-Mar-15 | 01-Jun-15 02-Jun-15 | 02-Jun-15 04-Jun-15 | 51 | 0 | 0% | |
| | SD4F0200 SD4F0202 | , , , , | Pier Curing & Striking of Forms incl. CJ prep (1st | 1 ;f+) | 2 | 23-Mar-15 24-Mar-15 | 0% | 2 | 24-Mar-15 26-Mar-15 | 02-Jun-15 04-Jun-15 | 04-Jun-15 | 51 | 0 | 0% | |
| | SD4F0202 SD4F0210 | . , , | Pier Scaffolding (2nd Lift) | | 2 | 24-Mar-15 26-Mar-15 | 0% | 2 | 28-Mar-15 | 04-Jun-15 | 10-Jun-15 | 51 | 0 | 0% | |
| | SD4F0210 SD4F0220 | , , , , | Pier Rebarwork (2nd Lift) | | 3 | 28-Mar-15 | 0% | 2 | 01-Apr-15 | 10-Jun-15 | 15-Jun-15 | 51 | 0 | 0% | |
| | SD4F0220 | . , , | Pier Formwork & Prep for Concreting (2nd Lift) | | 3 | 01-Apr-15 | 0% | 3 | 01-Apr-15 09-Apr-15 | 15-Jun-15 | 19-Jun-15 | 51 | 0 | 0% | |
| | SD4F0230 | , , , , | Pier Concreting (2nd Lift) | | 1 | 01-Apr-15 09-Apr-15 | 0% | 1 | 10-Apr-15 | 19-Jun-15 | 22-Jun-15 | 51 | 0 | 0% | |
| | SD4F0240 | . , , | Pier Curing & Striking of Forms incl. CJ prep (2nd | 1 1 :f+\ | 2 | | 0% | 2 | | 22-Jun-15 | 22-Jun-15 | 51 | 0 | 0% | |
| | | D1 (D4f) - Type 4B-MJ | | | 4 | 10-Apr-15 13-Apr-15 | 0% | 4 | 13-Apr-15 18-Apr-15 | 22-Jun-15 26-Jun-15 | 02-Jul-15 | 51 | 0 | 0% | |
| | SD4F0300 | D1 (D4f) - Type 4B-MJ | | | 5 | 18-Apr-15 | 0% | 5 | 25-Apr-15 | 02-Jul-15 | 02-Jul-15 | 52 | 0 | 0% | |
| | | , , , , | Pier Head Formwork & Prep for Concreting | | 5 | 25-Apr-15 | 0% | 5 | 02-May-15 | 10-Jul-15 | 15-Jul-15 | 52 | 0 | 0% | |
| | | D1 (D4f) - Type 4B-MJ | | | 1 | 02-May-15 | 0% | 5 1 | 02-May-15 04-May-15 | 17-Jul-15 | 17-Jul-15 | 52 | 0 | 0% | |
| | | . , , | | ffolding | | · · | | | | | | | | | |
| | SD4F0340 | , , , , | Pier Head Curing/Striking of Forms/Remove Sca | anoiding | 6 | 04-May-15 | 0% | 6 | 11-May-15 | 18-Jul-15 | 24-Jul-15 | 52 | 0 | 0% | |
| | | D1 (D4f) - Type 4B-Bea | aring Plinth | | 6 | 04-May-15 | 0% | 6 | 11-May-15 | 18-Jul-15 | 24-Jul-15 | 52 | 0 | 0% | |
| | Pier Head Se | - | | | 6 | 40 May 45 | 00/ | 0 | 40 May 45 | | 04 Aug 45 | 50 | 00 | 00/ | |
| | | D1 (D4t) - Pier Head Se | egment - Temporary Platform | | 6 | 13-May-15 | 0% | 6 | 19-May-15 | 25-Jul-15 | 01-Aug-15 | 52 | 88 | 0% | |
| | Pier D2 (D4e) | | | | | | | | | | | | | | |
| | Pile Cap Wo | | Con M2h Inst Floating Soul & Cooing Lload Stor | huosk | 7 | 26 Eab 15 A | 100% | 0 | 02 Mar 15 A | | | | | 100% | |
| | | . , | Cap M2b - Inst. Floating Seal & Casing Head Stee | PIWOIK | 7 | 26-Feb-15 A | 100% | 0 | 03-Mar-15 A | | | | | 100% | |
| | SD4E0080 | . , | Cap M2b - Install precast shell in position | | 1 | 04-Mar-15 A | 100% | | 04-Mar-15 A | | | | | | |
| | SD4E0090 | . , | Cap M2b - Inst.Access & make Watertight | | 3 | 13-Mar-15 A | 100% | 0 | 16-Mar-15 A | 40 Nov 45 | 00 Nov 45 | 470 | 0 | 100% | |
| | SD4E0100 | . , | Cap M2b - Weld Fin plates/Plug Rebar & Concrei | | 9 | 17-Mar-15 A | 55.56% | 4 | 25-Mar-15 | 19-Nov-15 | 23-Nov-15 | 179 | 0 | 50% | |
| | SD4E0120 | . , | Cap M2b - Dewater precast shell / Remove Lifting | g Frame | 2 | 26-Mar-15 | 0% | 2 | 27-Mar-15 | 24-Nov-15 | 25-Nov-15 | 179 | 0 | 0% | |
| | SD4E0130 | . , | Cap M2b - Pile cut down | | 8 | 28-Mar-15 | 0% | 8 | 10-Apr-15 | 26-Nov-15 | 04-Dec-15 | 179 | 0 | 0% | |
| | SD4E0140 | . , | Cap M2b - Rebar fixing, inst.inserts etc | | 12 | 11-Apr-15 | 0% | 12 | 27-Apr-15 | 05-Dec-15 | 18-Dec-15 | 179 | 0 | 0% | |
| | SD4E0150 | D2 (D4e) - Marine Pile | | | 1 | 28-Apr-15 | 0% | 1 | 28-Apr-15 | 19-Dec-15 | 19-Dec-15 | 179 | 0 | 0% | |
| | | D2 (D4e) - Marine Pile | Cap M2b - Curing incl. CJ Preparation | | 6 | 29-Apr-15 | 0% | 6 | 06-May-15 | 21-Dec-15 | 29-Dec-15 | 179 | 0 | 0% | |
| | Pier Works | $D^{2}(D^{4}a)$ Time 4D Dia | r Town Support Distform | | C | 20 Apr 15 | 09/ | C | OG Mov 15 | 21 Dec 15 | 20 Dec 15 | 170 | 0 | 00/ | |
| | | . , , | r Temp. Support Platform | | 6 | 29-Apr-15 | 0% | 6 | 06-May-15 | | 29-Dec-15 | 179 | 0 | 0% | |
| | | D2 (D4e) - Type 4B Pie | | | 1 | 07-May-15 | 0% | 1 | 07-May-15 | | 30-Dec-15 | 179 | 0 | 0% | |
| | SD4E0180 | D2 (D4e) - Type 4B Pie | . , | | 3 | 08-May-15 | 0% | 3 | 11-May-15 | 31-Dec-15 | 04-Jan-16 | 179 | 0 | 0% | |
| | SD4E0190 | . , | r Formwork & Prep for Concreting (1st Lift) | | 2 | 13-May-15 | 0% | 2 | 14-May-15 | 05-Jan-16 | 06-Jan-16 | 179 | 0 | 0% | |
| | SD4E0200 | D2 (D4e) - Type 4B Pie | | <u>\</u> | 1 | 15-May-15 | 0% | 1 | 15-May-15 | 07-Jan-16 | 07-Jan-16 | 179 | 0 | 0% | |
| | | . , | r Curing & Striking of Forms incl. CJ prep (1st Lift |) | 2 | 16-May-15 | 0% | 2 | 18-May-15 | 08-Jan-16 | 09-Jan-16 | 179 | 0 | 0% | |
| | SD4E0210 | D2 (D4e) - Type 4B Pie | | | 2 | 19-May-15 | 0% | 2 | 20-May-15 | 11-Jan-16 | 12-Jan-16 | 179 | 0 | 0% | |
| | SD4E0220 | D2 (D4e) - Type 4B Pie | · · · · | | 3 | 22-May-15 | 0% | 3 | 26-May-15 | 13-Jan-16 | 15-Jan-16 | 179 | 0 | 0% | |
| | SD4E0230 | . , . | r Formwork & Prep for Concreting (2nd Lift) | | 3 | 27-May-15 | 0% | 3 | 29-May-15 | 16-Jan-16 | 19-Jan-16 | 179 | 0 | 0% | |
| | SD4E0240 | D2 (D4e) - Type 4B Pie | | | 1 | 30-May-15 | 0% | 1 | 30-May-15 | 20-Jan-16 | 20-Jan-16 | 179 | 0 | 0% | |
| | | . , . | r Curing & Striking of Forms incl. CJ prep (2nd Lif | τ) | 2 | 01-Jun-15 | 0% | 2 | 02-Jun-15 | 21-Jan-16 | 22-Jan-16 | 179 | 0 | 0% | |
| | SD4E0300 | D2 (D4e) - Type 4B Pie | | | 4 | 04-Jun-15 | 0% | 4 | 08-Jun-15 | 23-Jan-16 | 27-Jan-16 | 179 | 0 | 0% | |
| | | D2 (D4e) - Type 4B Pie | | | 5 | 10-Jun-15 | 0% | 5 | 16-Jun-15 | 28-Jan-16 | 03-Feb-16 | 180 | 0 | 0% | |
| | | () , | r Head Formwork & Prep for Concreting | | 5 | 18-Jun-15 | 0% | 5 | 26-Jun-15 | 04-Feb-16 | 12-Feb-16 | 180 | 0 | 0% | |
| | Pier D3 (D4d) | | | | | | | | | | | | | | |
| | Pile Cap Wo | | | huark | 7 | 07 1 45 4 | 1000/ | | | | | | | 4000/ | L |
| | | . , | Cap M2b - Inst.Floating Seal & Casing Head Stee | PIWOFK | 7 | 27-Jan-15 A | 100% | 0 | 23-Feb-15 A | | | | | 100% | . |
| | | · , | Cap M2b - Install precast shell in position | | 1 | 24-Feb-15 A | 100% | 0 | 24-Feb-15 A | | | | | 100% | • • |
| | SD4D0090 | D3 (D4d) - Marine Pile | Cap M2b - Inst.Access & make Watertight | | 3 | 25-Feb-15 A | 100% | 0 | 27-Feb-15 A | | | | | 100% | |
| | Actual Work | | Project ID: J3518DWPrE-M22 | Tuen | Mun - C | hek Lap Kok I | ink - Sou | thern C | Connection | | Date | Revis | | Checked | Approv |
| | Planned Bar | | Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CC | 3-Mont | h Rollii | ng Program | nme (Pag | ge 22 | of 41 Pag | es) | 09-Mar-15 | | | | |
| • | Critical Bar Milestone | | Milestones, No Level of Effort. | | (P | Progress as | of 21-M | lar-15) |) | | 31-Mar-15 | | W | T | |
| • | ▼ | | | | | | | | | | | | | | |



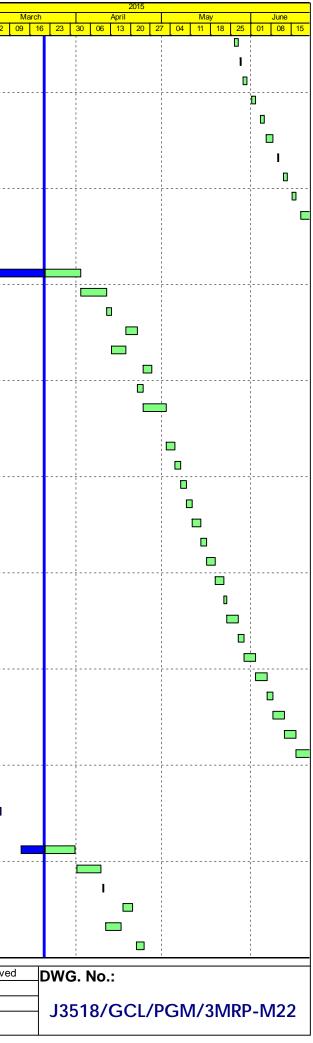
| ctivity ID | Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|--|--|---|---------------|--------------------------------|------------------------|---------------|----------------------------------|------------------------|-------------------|-------------|------------|------------------------|----------|
| | | | | Start | Complete | Dum. | | | | | | | 23 02 |
| SD4D0100 SD4D0120 SD4D0130 SD4D0130 SD4D0140 SD4D0150 SD4D0160 Pier Works SD4D0170 SD4D0200 SD4D0250 SD4D0280 SD4D0280 SD4D0300 Pier D4 (D4c) GFXX247 GFXX248 Pile Cap Works | D3 (D4d) - Marine Pile | Cap M2b - Weld Fin plates/Plug Rebar & Concrete | 9 | 10-Mar-15 A | 100% | 0 | 16-Mar-15 A | | | | | 100% | - |
| SD4D0120 | . , | Cap M2b - Dewater precast shell / Remove Lifting | Frame 2 | 21-Mar-15 | 0% | 2 | 23-Mar-15 | 06-May-15 | 07-May-15 | 32 | 0 | 0% | - |
| SD4D0130 | . , | Cap M2b - Pile cut down | 12 | 24-Mar-15 | 0% | 12 | 10-Apr-15 | 08-May-15 | 23-May-15 | 32 | 0 | 0% | _ |
| SD4D0140 | . , | Cap M2b - Rebar fixing, inst.inserts etc | 12 | 11-Apr-15 | 0% | 12 | 27-Apr-15 | 26-May-15 | 10-Jun-15 | 32 | 0 | 0% | |
| SD4D0150 | D3 (D4d) - Marine Pile | , , | 1 | 28-Apr-15 | 0% | 1 | 28-Apr-15 | 12-Jun-15 | 12-Jun-15 | 32 | 0 | 0% | _ |
| SD4D0160 | D3 (D4d) - Marine Pile | Cap M2b - Curing incl. CJ Preparation | 6 | 29-Apr-15 | 0% | 6 | 06-May-15 | 13-Jun-15 | 22-Jun-15 | 32 | 0 | 0% | |
| Pier Works | | | | 00 1 15 | 00/ | 0 | 00 14- 45 | 00 No. 45 | 00 No. 45 | 455 | 0 | | |
| SD4D0170 | | er Temp. Support Platform | 6 | 29-Apr-15 | 0% | 6 | 06-May-15 | 23-Nov-15 | 30-Nov-15 | 155 | 0 | 0% | _ |
| SD4D0172 | D3 (D4d) - Type 4B Pie | | 1 | 07-May-15 | 0% | 1 | 07-May-15 | 30-Nov-15 | 01-Dec-15 | 155 | 0 | 0% | |
| SD4D0180 | D3 (D4d) - Type 4B Pie | · · · · | 3 | 08-May-15 | 0% | 3 | 11-May-15 | | 04-Dec-15 | 155 | 0 | 0% | |
| SD4D0190 | , , <u>,</u> | er Formwork & Prep for Concreting (1st Lift) | 2 | 13-May-15 | 0% | 2 | 14-May-15 | 04-Dec-15 | 07-Dec-15 | 155 | 0 | 0% | - |
| SD4D0200 | D3 (D4d) - Type 4B Pie | | 1 | 15-May-15 | 0% | 1 | 15-May-15 | 07-Dec-15 | 08-Dec-15 | 155 | 0 | 0% 0% | _ |
| SD4D0202 | . , , | er Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 16-May-15 | 0% | 2 | 18-May-15 | 08-Dec-15 | 10-Dec-15 | 155 | 0 | | _ |
| SD4D0210 | D3 (D4d) - Type 4B Pie | | 2 | 19-May-15 | 0% | 2 | 20-May-15 | 10-Dec-15 | 12-Dec-15 | 155 | 0 | 0% | |
| SD4D0220 | D3 (D4d) - Type 4B Pie | · · · · · | 2 | 22-May-15 | 0% | 2 | 23-May-15 | 12-Dec-15 | 15-Dec-15 | 155 | 0 | 0% | |
| SD4D0230 | , , , , , , , , , , , , , , , , , , , | er Formwork & Prep for Concreting (2nd Lift) | 2 | 26-May-15 | 0% | 2 | 27-May-15 | 15-Dec-15 | 17-Dec-15 | 155 | 0 | 0% 0% | - |
| SD4D0240 | D3 (D4d) - Type 4B Pie | | 1 | 28-May-15 | 0% | 1 | 28-May-15 | 17-Dec-15 | 18-Dec-15 | 155 | 0 | | _ |
| SD4D0242 | . , | er Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 29-May-15 | 0% | 2 | 30-May-15 | 18-Dec-15 | 22-Dec-15 | 156 | 0 | 0% | _ |
| SD4D0250 | ()) | | 2 | 01-Jun-15 | 0% | 2 | 02-Jun-15 | 22-Dec-15 | 24-Dec-15 | 156 | 0 | 0% | |
| SD4D0260 | D3 (D4d) - Type 4B Pie | · · · · · · · · · · · · · · · · · · · | 3 | 04-Jun-15 | 0% | 3 | 06-Jun-15 | 24-Dec-15 | 30-Dec-15 | 156 | 0 | 0% | _ |
| SD4D0270 | . , , | er Formwork & Prep for Concreting (3rd Lift) | 2 | 08-Jun-15 | 0% | 2 | 10-Jun-15 | 30-Dec-15 | 02-Jan-16 | 156 | 0 | 0% 0% | - |
| SD4D0280 | D3 (D4d) - Type 4B Pie | 3. , | | 12-Jun-15 | 0% | 1 | 12-Jun-15 | 02-Jan-16 | 04-Jan-16 | 156 | | | |
| SD4D0282 | D3 (D4d) - Type 4B Pie D3 (D4d) - Type 4B Pie | er Curing & Striking of Forms incl. CJ prep (3rd Lift) | 2 | 13-Jun-15 | 0% | 2 | 15-Jun-15 22-Jun-15 | 04-Jan-16 06-Jan-16 | 06-Jan-16 | 156 156 | 0 | 0% 0% | _ |
| Pier D4 (D4c) | ()) | | 4 | 16-Jun-15 | 0 78 | 4 | 22-Jun-15 | 00-3411-10 | 11-Jan-16 | 150 | 0 | 078 | |
| Foundation | | | | | | | | | | | | | |
| GEXX247 | D4 (D4c) - Sonic & Inte | erface Coring | 12 | 04-Feb-15 A | 100% | 0 | 28-Feb-15 A | | | | | 100% | |
| GFXX248 | . , | emovable panels of temp. platform | 5 | 04-Mar-15 A | 100% | 0 | 09-Mar-15 A | | | | | 100% | - |
| Pile Cap Wo | | | Ŭ | of Mar Torr | 10070 | Ŭ | | | | | | 10070 | |
| | | Cap M2b - Inst.Floating Seal & Casing Head Steelw | ork 7 | 21-Mar-15 | 0% | 7 | 28-Mar-15 | 31-Jan-15 | 07-Feb-15 | -39 | 0 | 0% | |
| SD4C0080 | . , | Cap M2b - Install precast shell in position | 1 | 30-Mar-15 | 0% | 1 | 30-Mar-15 | 09-Feb-15 | 09-Feb-15 | -39 | 0 | 0% | - |
| SD4C0090 | . , | Cap M2b - Inst.Access & make Watertight | 3 | 31-Mar-15 | 0% | 3 | 02-Apr-15 | 10-Feb-15 | 12-Feb-15 | -39 | 0 | 0% | |
| SD4C0100 | , , | Cap M2b - Weld Fin plates/Plug Rebar & Concrete | 9 | 08-Apr-15 | 0% | 9 | 18-Apr-15 | 13-Feb-15 | 26-Feb-15 | -39 | 0 | 0% | _ |
| SD4C0120 | , , | Cap M2b - Dewater precast shell / Remove Lifting F | | 20-Apr-15 | 0% | 2 | 21-Apr-15 | 27-Feb-15 | 28-Feb-15 | -39 | 0 | 0% | _ |
| SD4C0130 | . , | Cap M2b - Pile cut down | 12 12 | 22-Apr-15 | 0% | 12 | 07-May-15 | 02-Mar-15 | 14-Mar-15 | -39 | 0 | 0% | |
| SD4C0140 | , , | Cap M2b - Rebar fixing, inst.inserts etc | 12 | 08-May-15 | 0% | 12 | 23-May-15 | 16-Mar-15 | 28-Mar-15 | -39 | 0 | 0% | - |
| SD4C0150 | D4 (D4c) - Marine Pile | 1 0, | 1 | 26-May-15 | 0% | 1 | 26-May-15 | 30-Mar-15 | 30-Mar-15 | -39 | 0 | 0% | |
| SD4C0160 | . , | Cap M2b - Curing incl. CJ Preparation | 6 | 27-May-15 | 0% | 6 | 02-Jun-15 | | 10-Apr-15 | -39 | 0 | 0% | - |
| Pier Works | | | | | 0,0 | ý | | | | | | 0,0 | |
| SD4C0170 | D4 (D4c) - Type 4B Pie | er Temp. Support Platform | 6 | 27-May-15 | 0% | 6 | 02-Jun-15 | 31-Mar-15 | 10-Apr-15 | -39 | 0 | 0% | |
| SD4C0172 | D4 (D4c) - Type 4B Pie | | 1 | 04-Jun-15 | 0% | 1 | 02-Jun-15 | 11-Apr-15 | 11-Apr-15 | -39 | 0 | 0% | - |
| SD4C0180 | D4 (D4c) - Type 4B Pie | | 3 | 05-Jun-15 | 0% | 3 | 08-Jun-15 | 13-Apr-15 | 16-Apr-15 | -39 | 0 | 0% | _ |
| | · · · · | er Formwork & Prep for Concreting (1st Lift) | 2 | 10-Jun-15 | 0% | 2 | 12-Jun-15 | 17-Apr-15 | 18-Apr-15 | -39 | 0 | 0% | _ |
| SD4C0200 | D4 (D4c) - Type 4B Pie | | 1 | 13-Jun-15 | 0% | 1 | 13-Jun-15 | 20-Apr-15 | 20-Apr-15 | -39 | 0 | 0% | _ |
| SD4C0202 | . , | er Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 15-Jun-15 | 0% | 2 | 16-Jun-15 | 21-Apr-15 | 22-Apr-15 | -39 | 0 | 0% | |
| SD4C0210 | D4 (D4c) - Type 4B Pie | | 2 | 18-Jun-15 | 0% | 2 | 19-Jun-15 | 24-Apr-15 | 25-Apr-15 | -39 | 0 | 0% | |
| Pier D5 (D4b) | . , . | | | | | | | · T· ·• | | | - | 0,0 | |
| Foundation | | | | | | | | | | | | | |
| | | | | | | 4 | 0 | | Det | | vian I c | | <u> </u> |
| Actual Work | | Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22 | Tuen Mun - C | • | | | | (aa) | Date 09-Mar-15 | Revis | sion (| Checked B | Approv |
| Critical Bar | | Filter: TASK filters: 3-Month Lookahead, No CC | 3-Month Rolli | | • | - | - | 192) | 31-Mar-15 | | | IY | |
| Milestone | | Milestones, No Level of Effort. | (F | Progress as | | iar-15 | " | | | | • | | |



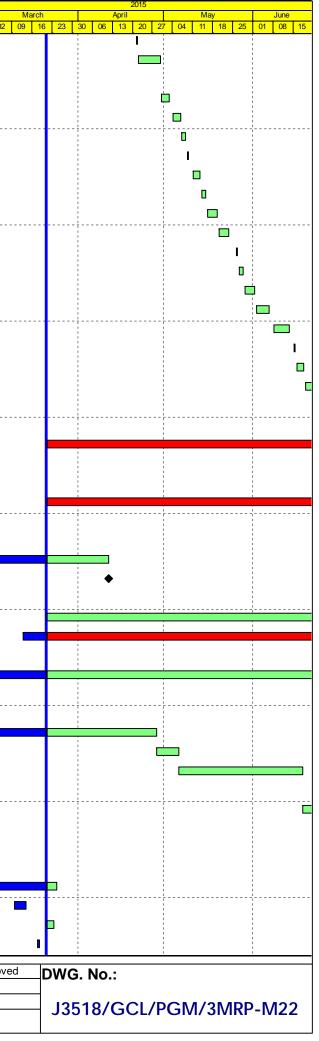
| tivity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complet | |
|------------------------------|---|---------------------------------------|--------------------------------|------------------------|---------------|----------------------------------|------------------------|-------------------|-------------|------------|-----------------------|---------|
| GFXX24 | 42 D5 (D4b) - Sonic & Interface Coring | 12 | 17-Feb-15 A | 100% | 0 | 28-Feb-15 A | | | | | 100% | 23 02 |
| GFXX24 | | 5 | 04-Mar-15 A | 100% | 0 | 09-Mar-15 A | | | | | 100% | |
| Pile Cap | | 3 | 04 Mai 13 A | 10070 | U | 00-10141-1074 | | | | | 1007 | |
| SD4B00 | | elwork 7 | 21-Mar-15 | 0% | 7 | 28-Mar-15 | 23-Feb-15 | 02-Mar-15 | -23 | 1 | 0% | 6 |
| SD4B00 | | 1 | 31-Mar-15 | 0% | 1 | 31-Mar-15 | 03-Mar-15 | 03-Mar-15 | -24 | 0 | 0% | _ |
| SD4B00 | | 3 | 01-Apr-15 | 0% | 3 | 08-Apr-15 | 04-Mar-15 | 06-Mar-15 | -24 | 0 | 0% | _ |
| SD4B01 | | | 09-Apr-15 | 0% | 9 | 20-Apr-15 | 07-Mar-15 | 17-Mar-15 | -24 | 0 | 0% | |
| SD4B01 | | | 21-Apr-15 | 0% | 2 | 22-Apr-15 | 18-Mar-15 | 19-Mar-15 | -24 | 0 | 0% | _ |
| SD4B01 | | 8 | 24-Apr-15 | 0% | 8 | 04-May-15 | 20-Mar-15 | 28-Mar-15 | -24 | 0 | 0% | _ |
| SD4B01 | | 12 | 05-May-15 | 0% | 12 | 19-May-15 | 30-Mar-15 | 17-Apr-15 | -24 | 0 | 0% | _ |
| SD4B01 | | 1 | 20-May-15 | 0% | 1 | 20-May-15 | 18-Apr-15 | 18-Apr-15 | -24 | 0 | 0% | _ |
| SD4B01 | | 6 | 20-May-15 22-May-15 | 0% | 6 | 20-May-15 | 20-Apr-15 | 27-Apr-15 | -24 | 0 | 0% | |
| Pier Wor | | 0 | 22-10ldy-13 | 078 | 0 | 23-101dy-13 | 20-Api-13 | 21-Api-15 | -24 | 0 | 07 | B |
| SD4B01 | | 6 | 22-May-15 | 0% | 6 | 29-May-15 | 20-Apr-15 | 27-Apr-15 | -24 | 0 | 0% | |
| | 172 D5 (D4b) - Type 4B Pier Scaffolding (1st Lift) | 1 | 30-May-15 | 0% | 1 | 30-May-15 | 20-Apr-15 28-Apr-15 | 28-Apr-15 | -24 | 0 | 0% | _ |
| | | | | | 1 2 | | · · · | • | | | 0% | |
| SD4B01 | | 3 | 01-Jun-15 | 0% | 3 | 04-Jun-15 | 29-Apr-15 | 02-May-15 | -24 | 0 | | |
| SD4B01 | | 2 | 05-Jun-15 | 0% | 2 | 06-Jun-15 | 04-May-15 | 05-May-15 | -24 | 0 | 0% | _ |
| SD4B02 | | 1 | 08-Jun-15 | 0% | 1 | 08-Jun-15 | 06-May-15 | 06-May-15 | -24 | 0 | 0% | _ |
| SD4B02 | | , | 10-Jun-15 | 0% | 2 | 12-Jun-15 | 07-May-15 | 08-May-15 | -24 | 0 | 0% | _ |
| | 210 D5 (D4b) - Type 4B Pier Scaffolding (2nd Lift) | 2 | 13-Jun-15 | 0% | 2 | 15-Jun-15 | 09-May-15 | 11-May-15 | -24 | 0 | 0% | _ |
| SD4B02 | | 2 | 16-Jun-15 | 0% | 2 | 18-Jun-15 | 13-May-15 | 14-May-15 | -24 | 0 | 0% | |
| SD4B02 | | 2 | 19-Jun-15 | 0% | 2 | 22-Jun-15 | 15-May-15 | 16-May-15 | -24 | 0 | 0% | 0 |
| Pier D6 (D | • | | | | | | | | | | | |
| | tion Works | | | | | | | | | | | |
| GFXX23 | | 12 | 30-Jan-15 A | 100% | 0 | 26-Feb-15 A | | | | | 100% | |
| | 37-1 D6 (D4a) - Selection of bored pile for Full Depth Coring | 6 | 26-Feb-15 A | 100% | 0 | 26-Feb-15 A | | | | | 100% | |
| GFXX23 | 37-2 D6 (D4a) - Bored Pile Full Depth Coring & Testing | 24 | 26-Feb-15 A | 100% | 0 | 26-Feb-15 A | | | | | 100% | _ |
| GFXX23 | | 5 | 26-Feb-15 A | 100% | 0 | 03-Mar-15 A | | | | | 100% | 6 |
| Pile Cap | | | | | | | | | | | | |
| SD4A00 | D70 D6 (D4a) - Marine Pile Cap M2 - Inst. Floating Seal & Casing Head Steel | work 7 | 30-May-15 | 0% | 7 | 08-Jun-15 | 29-Apr-15 | 07-May-15 | -23 | 0 | 0% | 6 |
| SD4A00 | D80 D6 (D4a) - Marine Pile Cap M2 - Install precast shell in position | 1 | 10-Jun-15 | 0% | 1 | 10-Jun-15 | 08-May-15 | 08-May-15 | -23 | 0 | 0% | |
| SD4A00 | D90 D6 (D4a) - Marine Pile Cap M2 - Inst.Access & make Watertight | 3 | 12-Jun-15 | 0% | 3 | 15-Jun-15 | 09-May-15 | 13-May-15 | -23 | 0 | 0% | 6 |
| SD4A01 | 100 D6 (D4a) - Marine Pile Cap M2 - Weld Fin plates/Plug Rebar & Concrete | e 9 | 16-Jun-15 | 0% | 9 | 30-Jun-15 | 14-May-15 | 26-May-15 | -23 | 0 | 0% | 6 |
| Bridge D2 | 2 | | | | | | | | | | | |
| Pier D7 (D |)3e) | | | | | | | | | | | |
| Pile Cap | Works | | | | | | | | | | | |
| SD3E00 | D80 D7 (D3e) - Marine Pile Cap M2b - Install precast shell in position | 1 | 21-Mar-15 | 0% | 1 | 21-Mar-15 | 25-Mar-15 | 25-Mar-15 | 3 | 0 | 0% | 6 |
| SD3E00 | D90 D7 (D3e) - Marine Pile Cap M2b - Inst.Access & make Watertight | 3 | 23-Mar-15 | 0% | 3 | 25-Mar-15 | 26-Mar-15 | 28-Mar-15 | 3 | 0 | 0% | 6 |
| SD3E01 | 100 D7 (D3e) - Marine Pile Cap M2b - Weld Fin plates/Plug Rebar & Concre | ete 9 | 26-Mar-15 | 0% | 9 | 09-Apr-15 | 30-Mar-15 | 13-Apr-15 | 3 | 0 | 0% | 6 |
| SD3E01 | 120 D7 (D3e) - Marine Pile Cap M2b - Dewater precast shell / Remove Liftin | g Frame 2 | 10-Apr-15 | 0% | 2 | 11-Apr-15 | 14-Apr-15 | 16-Apr-15 | 3 | 0 | 0% | 6 |
| SD3E01 | 130 D7 (D3e) - Marine Pile Cap M2b - Pile cut down | 8 | 13-Apr-15 | 0% | 8 | 22-Apr-15 | 17-Apr-15 | 27-Apr-15 | 3 | 0 | 0% | 6 |
| SD3E01 | 140 D7 (D3e) - Marine Pile Cap M2b - Rebar fixing, inst.inserts etc | 12 | 24-Apr-15 | 0% | 12 | 08-May-15 | 28-Apr-15 | 13-May-15 | 3 | 0 | 0% | 6 |
| SD3E01 | 150 D7 (D3e) - Marine Pile Cap M2b - Concreting | 1 | 09-May-15 | 0% | 1 | 09-May-15 | 14-May-15 | 14-May-15 | 3 | 0 | 0% | 6 |
| SD3E01 | 160 D7 (D3e) - Marine Pile Cap M2b - Curing incl. CJ Preparation | 6 | 11-May-15 | 0% | 6 | 18-May-15 | 15-May-15 | 22-May-15 | 3 | 0 | 0% | 6 |
| Pier Wor | ks | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| SD3E01 | 170 D7 (D3e) - Type 4B Pier Temp. Support Platform | 6 | 11-May-15 | 0% | 6 | 18-May-15 | 15-May-15 | 22-May-15 | 3 | 0 | 0% | 6 |
| SD3E01 | 172 D7 (D3e) - Type 4B Pier Scaffolding (1st Lift) | 1 | 19-May-15 | 0% | 1 | 19-May-15 | 23-May-15 | 23-May-15 | 3 | 0 | 0% | 6 |
| SD3E01 | 180 D7 (D3e) - Type 4B Pier Rebarwork (1st Lift) | 3 | 20-May-15 | 0% | 3 | 23-May-15 | 26-May-15 | 28-May-15 | 3 | 0 | 0% | 6 |
| | | , | | | | 1. | | - | 1 | | <u> </u> | |
| | Project ID: 13518D\//DrE_M22 | | hok I an Kak I | ink Com | thorn 4 | Connoction | | | Rovic | sion L | Checked | |
| Actual Wo | Lavout: 12518 DW/P 2MPP Submission M22 | Tuen Mun - Ch 3-Month Rollin | • | | | | (20L | Date 09-Mar-15 | Revis | | Checked DB | Approv |
| | Layout: J3518-DWP-3MRP Submission - M22_ | 3-Month Rollin | • | me (Pa | ge 24 | of 41 Pag | jes) | | Revis | C | | Approve |



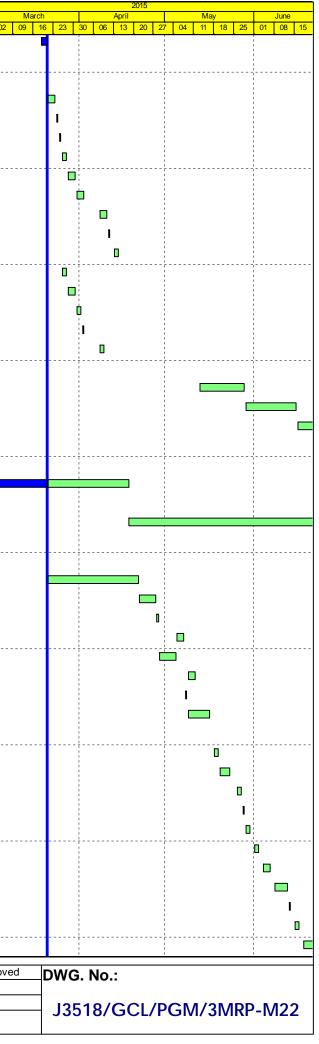
| Activi | ty ID Activity Name | Orig. Durn. | Act. Start / FC Early | Duration % | Rem. | Act. Finish / FC | Late Start | Late Finish | Total Float | Free Float | Physical % | |
|--------|--|--------------|-----------------------|------------|---------|------------------|------------|-------------|-------------|------------|------------|----------|
| | | | Start | Complete | Durn. | Early Finish | | | | | Complete | 23 02 |
| | SD3E0190 D7 (D3e) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 26-May-15 | 0% | 2 | 27-May-15 | 29-May-15 | 30-May-15 | 3 | 0 | 0% | |
| | SD3E0200 D7 (D3e) - Type 4B Pier Concreting (1st Lift) | 1 | 28-May-15 | 0% | 1 | 28-May-15 | 01-Jun-15 | 01-Jun-15 | 3 | 0 | 0% | |
| | SD3E0202 D7 (D3e) - Type 4B Pier Curing & Striking of Forms ind. CJ prep (1st Lift) | 2 | 29-May-15 | 0% | 2 | 30-May-15 | 02-Jun-15 | 05-Jun-15 | 4 | 0 | 0% | |
| | SD3E0210 D7 (D3e) - Type 4B Pier Scaffolding (2nd Lift) | 2 | 01-Jun-15 | 0% | 2 | 02-Jun-15 | 06-Jun-15 | 08-Jun-15 | 4 | 0 | 0% | |
| | SD3E0220 D7 (D3e) - Type 4B Pier Rebarwork (2nd Lift) | 2 | 04-Jun-15 | 0% | 2 | 05-Jun-15 | 10-Jun-15 | 12-Jun-15 | 4 | 0 | 0% | |
| | SD3E0230 D7 (D3e) - Type 4B Pier Formwork & Prep for Concreting (2nd Lift) | 2 | 06-Jun-15 | 0% | 2 | 08-Jun-15 | 13-Jun-15 | 15-Jun-15 | 4 | 0 | 0% | |
| | SD3E0240 D7 (D3e) - Type 4B Pier Concreting (2nd Lift) | 1 | 10-Jun-15 | 0% | 1 | 10-Jun-15 | 16-Jun-15 | 16-Jun-15 | 4 | 0 | 0% | |
| | SD3E0242 D7 (D3e) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 12-Jun-15 | 0% | 2 | 13-Jun-15 | 18-Jun-15 | 19-Jun-15 | 4 | 0 | 0% | |
| | SD3E0250 D7 (D3e) - Type 4B Pier Scaffolding (3rd Lift) | 2 | 15-Jun-15 | 0% | 2 | 16-Jun-15 | 22-Jun-15 | 24-Jun-15 | 4 | 0 | 0% | |
| | SD3E0260 D7 (D3e) - Type 4B Pier Rebarwork (3rd Lift) | 3 | 18-Jun-15 | 0% | 3 | 22-Jun-15 | 26-Jun-15 | 29-Jun-15 | 4 | 0 | 0% | |
| | Pier D8 (D3d) | | | | | | | | | | | |
| | Pile Cap Works | | | | | | | | | | | |
| | SD3D0090 D8 (D3d) - Pile cap Excavation / ELS | 36 | 05-Mar-15 A | 70% | 11 | 02-Apr-15 | 28-Apr-15 | 13-May-15 | 26 | 0 | 70% | |
| | SD3D0092 D8 (D3d) - Pile cap Pile breakdown to cut-off etc. | 4 | 02-Apr-15 | 0% | 4 | 11-Apr-15 | 13-May-15 | 18-May-15 | 26 | 0 | 0% | |
| | SD3D0100 D8 (D3d) - Pile cap Blinding | 1 | 11-Apr-15 | 0% | 1 | 13-Apr-15 | 18-May-15 | 19-May-15 | 26 | 0 | 0% | |
| | SD3D0110 D8 (D3d) - Pile cap Formwork | 3 | 18-Apr-15 | 0% | 3 | 22-Apr-15 | 26-May-15 | 29-May-15 | 26 | 0 | 0% | |
| | SD3D0120 D8 (D3d) - Pile cap Rebarwork | 4 | 13-Apr-15 | 0% | 4 | 18-Apr-15 | 19-May-15 | 26-May-15 | 26 | 0 | 0% | |
| | SD3D0122 D8 (D3d) - Pile cap Kicker Formwork | 2 | 24-Apr-15 | 0% | 2 | 27-Apr-15 | 06-Jun-15 | 08-Jun-15 | 31 | 4 | 0% | |
| | SD3D0130 D8 (D3d) - Pile cap Concreting | 1 | 22-Apr-15 | 0% | 1 | 24-Apr-15 | 29-May-15 | 30-May-15 | 26 | 0 | 0% | |
| | SD3D0140 D8 (D3d) - Pile cap Curing & Striking of Forms incl. CJ prep | 6 | 24-Apr-15 | 0% | 6 | 02-May-15 | 30-May-15 | 08-Jun-15 | 27 | 0 | 0% | |
| | Pier Works | | | | | | | | | | | |
| | SD3D0150 D8 (D3d) - Type 5B Pier Scaffolding (1st Lift) | 2 | 02-May-15 | 0% | 2 | 05-May-15 | 10-Jun-15 | 12-Jun-15 | 27 | 0 | 0% | |
| | SD3D0160 D8 (D3d) - Type 5B Pier Rebarwork (1st Lift) | 2 | 05-May-15 | 0% | 2 | 07-May-15 | 13-Jun-15 | 15-Jun-15 | 27 | 0 | 0% | |
| | SD3D0170 D8 (D3d) - Type 5B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 07-May-15 | 0% | 2 | 09-May-15 | 16-Jun-15 | 18-Jun-15 | 27 | 0 | 0% | |
| | SD3D0180 D8 (D3d) - Type 5B Pier Concreting (1st Lift) | 1 | 09-May-15 | 0% | 1 | 11-May-15 | 19-Jun-15 | 19-Jun-15 | 27 | 0 | 0% | |
| | SD3D0182 D8 (D3d) - Type 5B Pier Curing & Striking of Forms ind. CJ prep (1st Lift) | 2 | 11-May-15 | 0% | 2 | 14-May-15 | 22-Jun-15 | 24-Jun-15 | 27 | 0 | 0% | |
| | SD3D0190 D8 (D3d) - Type 5B Pier Scaffolding (2nd Lift) | 2 | 14-May-15 | 0% | 2 | 16-May-15 | 26-Jun-15 | 27-Jun-15 | 27 | 0 | 0% | |
| | SD3D0200 D8 (D3d) - Type 5B Pier Rebarwork (2nd Lift) | 2 | 16-May-15 | 0% | 2 | 19-May-15 | 29-Jun-15 | 30-Jun-15 | 27 | 0 | 0% | |
| | SD3D0210 D8 (D3d) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift) | 2 | 19-May-15 | 0% | 2 | 22-May-15 | 02-Jul-15 | 03-Jul-15 | 27 | 0 | 0% | |
| | SD3D0220 D8 (D3d) - Type 5B Pier Concreting (2nd Lift) | 1 | 22-May-15 | 0% | 1 | 23-May-15 | 04-Jul-15 | 04-Jul-15 | 27 | 0 | 0% | |
| | SD3D0222 D8 (D3d) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 23-May-15 | 0% | 2 | 27-May-15 | 06-Jul-15 | 07-Jul-15 | 27 | 0 | 0% | |
| | SD3D0230 D8 (D3d) - Type 5B Pier Scaffolding (3rd Lift) | 2 | 27-May-15 | 0% | 2 | 29-May-15 | 08-Jul-15 | 09-Jul-15 | 27 | 0 | 0% | |
| | SD3D0240 D8 (D3d) - Type 5B Pier Rebarwork (3rd Lift) | 3 | 29-May-15 | 0% | 3 | 02-Jun-15 | 10-Jul-15 | 13-Jul-15 | 27 | 0 | 0% | |
| | SD3D0250 D8 (D3d) - Type 5B Pier Formwork & Prep for Concreting (3rd Lift) | 3 | 02-Jun-15 | 0% | 3 | 06-Jun-15 | 14-Jul-15 | 17-Jul-15 | 27 | 0 | 0% | |
| | SD3D0260 D8 (D3d) - Type 5B Pier Concreting (3rd Lift) | 1 | 06-Jun-15 | 0% | 1 | 08-Jun-15 | 18-Jul-15 | 18-Jul-15 | 27 | 0 | 0% | |
| | SD3D0262 D8 (D3d) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (3rd Lift) | 2 | 08-Jun-15 | 0% | 2 | 12-Jun-15 | 20-Jul-15 | 21-Jul-15 | 27 | 0 | 0% | |
| | SD3D0270 D8 (D3d) - Type 5B Pier Head Scaffolding | 3 | 12-Jun-15 | 0% | 3 | 16-Jun-15 | 22-Jul-15 | 24-Jul-15 | 27 | 0 | 0% | |
| | SD3D0280 D8 (D3d) - Type 5B Pier Head Rebarwork | 4 | 16-Jun-15 | 0% | 4 | 24-Jun-15 | 25-Jul-15 | 30-Jul-15 | 27 | 0 | 0% | |
| | Pier D9 (D3c) | | | | | | | | | | | |
| | Socketted H-Pile Installation | | | | | | | | | | | |
| | GFXX466 D9 (D3c) - Installation of SH Pile (16 nr) | 80 | 20-Nov-14 A | 100% | 0 | 06-Mar-15 A | | | | | 100% | |
| | Pile Cap Works | | | | | | | | | | | |
| | SD3C0090 D9 (D3c) - Pile cap Excavation / ELS (incl. sheet piling) | 45 | 13-Mar-15 A | 80% | 9 | 31-Mar-15 | 18-Jun-15 | 02-Jul-15 | 62 | 0 | 0% | |
| | SD3C0092 D9 (D3c) - Pile cap Pile breakdown to cut-off etc. | 4 | 01-Apr-15 | 0% | 4 | 09-Apr-15 | 03-Jul-15 | 07-Jul-15 | 62 | 0 | 0% | |
| | SD3C0100 D9 (D3c) - Pile cap Blinding | 1 | 10-Apr-15 | 0% | 1 | 10-Apr-15 | 08-Jul-15 | 08-Jul-15 | 62 | 0 | 0% | |
| | SD3C0110 D9 (D3c) - Pile cap Formwork | 3 | 17-Apr-15 | 0% | 3 | 20-Apr-15 | 14-Jul-15 | 17-Jul-15 | 62 | 0 | 0% | |
| | SD3C0120 D9 (D3c) - Pile cap Rebarwork | 4 | 11-Apr-15 | 0% | 4 | 16-Apr-15 | 09-Jul-15 | 13-Jul-15 | 62 | 0 | 0% | |
| | SD3C0122 D9 (D3c) - Pile cap Kicker Formwork | 2 | 22-Apr-15 | 0% | 2 | 24-Apr-15 | 24-Jul-15 | 25-Jul-15 | 66 | 4 | 0% | |
| | Actual Work Project ID: J3518DWPrE-M22 | Tuen Mun - C | hek Lap Kok I | .ink - Sou | thern C | Connection | | Date | Revis | sion (| Checked | Approved |
| | Planned Bar Layout: J3518-DWP-3MRP Submission - M22_ 3- | Month Rollin | - | | | | es) | 09-Mar-15 | | D | В | |
| | Critical Bar Filter: TASK Inters: 3-Wohth Lookanead, No CC Milestones: No Level of Effort | | Progress as | • | - | - | | 31-Mar-15 | | N | Y | |
| • | ♦ Milestone | • | - | | | - | | | | | | |



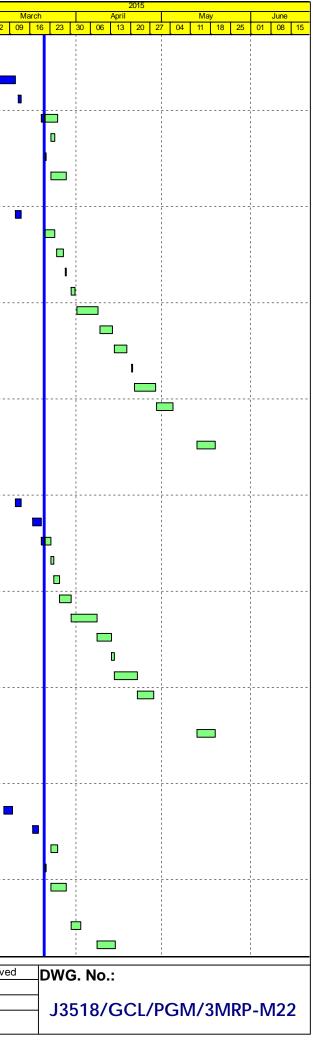
| Activ | rity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|-------|-------------------------------|---|---------------|--------------------------------|------------------------|---------------|----------------------------------|------------|------------------------|-------------|------------|------------------------|-------|
| | SD2C0120 | D9 (D3c) - Pile cap Concreting | 1 | 21 Apr 15 | 00/ | 1 | 21 Apr 15 | 18-Jul-15 | 18-Jul-15 | 62 | | | 02 |
| | | D9 (D3c) - Pile cap Curing & Striking of Forms incl. CJ prep | <u> </u> | 21-Apr-15 22-Apr-15 | 0% | 6 | 21-Apr-15 29-Apr-15 | 20-Jul-15 | 25-Jul-15 | 62 62 | 0 | 0% 0% | |
| | Pier Works | | 0 | 22-Api-13 | 0 78 | U | 29-Api-15 | 20-Jul-15 | 23-Jui-13 | 02 | 0 | 0 % | |
| | | D9 (D3c) - Type 5B Pier Scaffolding (1st Lift) | 2 | 30-Apr-15 | 0% | 2 | 02-May-15 | 27-Jul-15 | 28-Jul-15 | 62 | 0 | 0% | |
| | | D9 (D3c) - Type 5B Pier Rebarwork (1st Lift) | 3 | 04-May-15 | 0% | 3 | 06-May-15 | 30-Jul-15 | 01-Aug-15 | 62 | 0 | 0% | |
| | | D9 (D3c) - Type 5B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 07-May-15 | 0% | 2 | 08-May-15 | 03-Aug-15 | 04-Aug-15 | 62 | 0 | 0% | |
| | | D9 (D3c) - Type 5B Pier Concreting (1st Lift) | 1 | 09-May-15 | 0% | 1 | 09-May-15 | 05-Aug-15 | 05-Aug-15 | 62 | 0 | 0% | |
| | | D9 (D3c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 11-May-15 | 0% | 2 | 13-May-15 | 06-Aug-15 | 07-Aug-15 | 62 | 0 | 0% | |
| | SD3C0190 | D9 (D3c) - Type 5B Pier Scaffolding (2nd Lift) | 2 | 14-May-15 | 0% | 2 | 15-May-15 | 08-Aug-15 | 10-Aug-15 | 62 | 0 | 0% | |
| | SD3C0200 | D9 (D3c) - Type 5B Pier Rebarwork (2nd Lift) | 3 | 16-May-15 | 0% | 3 | 19-May-15 | 12-Aug-15 | 14-Aug-15 | 62 | 0 | 0% | |
| | SD3C0210 | D9 (D3c) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift) | 3 | 20-May-15 | 0% | 3 | 23-May-15 | 15-Aug-15 | 18-Aug-15 | 62 | 0 | 0% | |
| | SD3C0220 | D9 (D3c) - Type 5B Pier Concreting (2nd Lift) | 1 | 26-May-15 | 0% | 1 | 26-May-15 | 19-Aug-15 | 19-Aug-15 | 62 | 0 | 0% | |
| | SD3C0222 | D9 (D3c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 27-May-15 | 0% | 2 | 28-May-15 | 21-Aug-15 | 22-Aug-15 | 62 | 0 | 0% | |
| | SD3C0230 | D9 (D3c) - Type 5B Pier head Scaffolding | 3 | 29-May-15 | 0% | 3 | 01-Jun-15 | 24-Aug-15 | 26-Aug-15 | 62 | 0 | 0% | |
| | SD3C0240 | D9 (D3c) - Type 5B Pier Head Rebarwork | 4 | 02-Jun-15 | 0% | 4 | 06-Jun-15 | 27-Aug-15 | 31-Aug-15 | 62 | 0 | 0% | |
| | SD3C0250 | D9 (D3c) - Type 5B Pier Head Formwork & Prep for Concreting | 4 | 08-Jun-15 | 0% | 4 | 13-Jun-15 | 01-Sep-15 | 04-Sep-15 | 62 | 0 | 0% | |
| | SD3C0260 | D9 (D3c) - Type 5B Pier Head Concreting | 1 | 15-Jun-15 | 0% | 1 | 15-Jun-15 | 05-Sep-15 | 05-Sep-15 | 62 | 0 | 0% | |
| | SD3C0262 | D9 (D3c) - Type 5B Pier Head Curing & Striking of Forms incl. CJ prep | 2 | 16-Jun-15 | 0% | 2 | 18-Jun-15 | 07-Sep-15 | 08-Sep-15 | 62 | 0 | 0% | |
| | SD3C0320 | D9 (D3c) - Type 5B Pier Backfilling Works | 4 | 19-Jun-15 | 0% | 4 | 26-Jun-15 | 10-Sep-15 | 14-Sep-15 | 62 | 0 | 0% | |
| | Pier D10 (D3b | | | , | | | | | | | | | |
| | Socketted H | Pile Installation D10 | | | | | | | | | | | |
| | GFXX461-5 | D10B (D3b) - Installation of SH Pile (6 nr) - Resources Refer to D10A | 80 | 21-Mar-15 A | 0% | 80 | 30-Jun-15 | 27-Feb-15 | 06-Jun-15 | -19 | 0 | 0% | |
| | Pier D11 (D3a) | | | | | | | | | | | | |
| | Socketted H | Pile Installation - D11 (D3a) | | | | | | | | | | | |
| | GFXX461-7 | D11B (D3a) - Installation of SH Pile (7 nr) - Resources Refer to D11A | 90 | 21-Mar-15 | 0% | 90 | 13-Jul-15 | 07-Mar-15 | 29-Jun-15 | -12 | 0 | 0% | |
| | Pier D12 (D2e | | | | | | | | | | | | |
| | Preliminary V | Vorks for Land Piling | | | | | | | | | | | |
| | PD120020 | D12 (D2e) - Set up piling platform | 30 | 03-Nov-14 A | 50% | 15 | 11-Apr-15 | 11-Apr-18 | 30-Apr-18 | 848 | 0 | 50% | - |
| | PD120030 | D12 (D2e) - Complete Civil Preparation Works for piling to commence | 0 | | 0% | 0 | 11-Apr-15 | | 30-Apr-18 | 848 | 848 | 0% | |
| | | Pile Installation - D12 (D2e) | | | | | | | | | | | |
| | | D12A (D2e) - Installation of SH Pile (8 nr) | 104 | 21-Mar-15 | 0% | 104 | 29-Jul-15 | 30-Apr-15 | 02-Sep-15 | 30 | 0 | 0% | |
| | | D12B (D2e) - Installation of SH Pile (8 nr) | 104 | 13-Mar-15 A | 5% | 99 | 23-Jul-15 | 20-Mar-15 | 22-Jul-15 | -1 | 0 | 0% | |
| | Pile Cap Wor | | | | | | | | _ | | | | |
| | | D12A (D2e-L) - Pile cap Excavation / ELS | 34 | 03-Nov-14 A | 0% | 103 | 12-Aug-15 | 16-Apr-15 | 02-Sep-15 | 17 | 0 | 0% | |
| | Pier D13 (D2d | | | | | | | | | | | | |
| | | Pile Installation - D13 (D2d) | 101 | | 700/ | | 00 4 45 | | 47 4 45 | | | 700/ | |
| | | D13 (D2d) - Installation of SH Pile (16 nos) | 104 | 09-Feb-15 A | 73% | 28 | 28-Apr-15 | 15-Jul-15 | 17-Aug-15 | 92 | 0 | 73% | |
| | | D13 (D2d) - Selection of pile for Loading Test | 6 | 28-Apr-15 | 0% | 6 | 06-May-15 | 18-Aug-15 | 24-Aug-15 | 92 | 0 | 0% | |
| | | D13 (D2d) - Loading Test for pre-bored H-pile | 36 | 06-May-15 | 0% | 36 | 18-Jun-15 | 25-Aug-15 | 07-Oct-15 | 92 | 0 | 0% | |
| | Pile Cap Wor | | 20 | 40 hus 45 | 00/ | 20 | 00 kil 45 | 00 0+45 | 44 Nov 45 | 0.4 | 0 | 00/ | |
| | | D13 (D2d) - Pile cap Excavation / ELS (incl. sheet piling) | 30 | 18-Jun-15 | 0% | 30 | 30-Jul-15 | 08-Oct-15 | 14-Nov-15 | 84 | 0 | 0% | |
| | Bridge D1 | | | | | | | | | | | | |
| | Pier D14 (D2c Pile Cap Wor | | | | | | | | | | | | |
| | | D14B (D2c-R) - Pile cap Formwork | 3 | 13-Feb-15 A | 0% | 3 | 24-Mar-15 | 27-Apr-18 | 30-Apr-18 | 860 | 860 | 0% | |
| | | D14B (D2c-R) - Pile cap Formwork D14B (D2c-R) - Pile cap Rebarwork | 4 | 10-Mar-15 A | 100% | 0 | 24-Mar-15 14-Mar-15 A | 21-Mp1-10 | 30-Api-10 | 000 | 000 | 100% | |
| | | D14B (D2c-R) - Pile cap Rebai work D14B (D2c-R) - Pile cap Kicker Formwork | 2 | 21-Mar-15 | 0% | 2 | 23-Mar-15 | 15-Oct-15 | 16-Oct-15 | 151 | 2 | 0% | |
| | | D14B (D2c-R) - Pile cap Concreting | 1 | 18-Mar-15 A | 100% | 0 | 18-Mar-15 A | | 10-000-10 | | - | 100% | |
| | 00201(100 | | | | | | | | | | | L | |
| | Actual Work | Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_ | Tuen Mun - C | - | | | | | Date | Revis | | | prove |
| | Planned Bar Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CC | 3-Month Rolli | | • | - | - | es) | 09-Mar-15 31-Mar-15 | | D W | | |
| • | Milestone | Milestones, No Level of Effort. | (F | Progress as | s of 21-N | lar-15) | | | | | | I | |
| | | | | | | | | | | | | | |



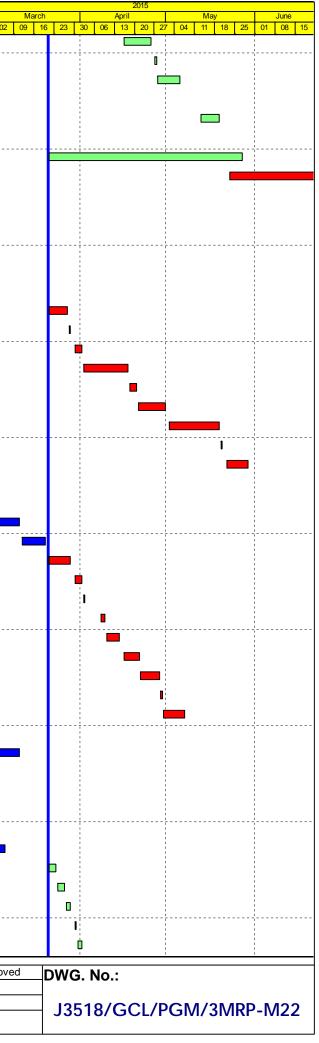
| Solution | ty ID Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish/FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical Comple | ete |
|---|---------------------------------------|---|---------------|--------------------------------|------------------------|---------------|--------------------------------|------------|-------------|-------------|------------|--------------------|---------|
| Statute Unit (Dist.) Per National (14 Lin) 1 2 set (14) UNIT | SD2CR140 D14B (D2c-R) - Pile cap (| Curing & Striking of Forms incl. CJ prep | 6 | 19-Mar-15 A | 100% | 0 | 21-Mar-15 A | | | | | 100° | |
| Stoch Discurport J. Per Hannons (10 LT) 2 2 Pather 16 00 | | | | | | | | <u> </u> | | |] | | |
| 1 3 - 444-13 0% 1 | SD2CL150 D14A (D2c-L) - Pier Scaff | olding (1st Lift) | 1 | 23-Feb-15 A | 100% | 0 | 23-Feb-15 A | | | | | 100º | % |
| Since Since <th< td=""><td>SD2CL160 D14A (D2c-L) - Pier Reba</td><td>arwork (1st Lift)</td><td>2</td><td>21-Mar-15 A</td><td>0%</td><td>2</td><td>23-Mar-15</td><td>07-Oct-15</td><td>08-Oct-15</td><td>145</td><td>0</td><td>O^c</td><td>6</td></th<> | SD2CL160 D14A (D2c-L) - Pier Reba | arwork (1st Lift) | 2 | 21-Mar-15 A | 0% | 2 | 23-Mar-15 | 07-Oct-15 | 08-Oct-15 | 145 | 0 | O ^c | 6 |
| Specify 20 Disk (2) PMAR/E Obs. 2 PMAR/E Obs. 2 PMAR/E Obs. 4 0 956 Specify On Info 2 PMAR/E 00. 2 PMAR/E 00. 4 0 956 Specify On Info 3 PMAR/E 00. 3 PMAR/E 00. 3 PMAR/E 00. 4 0 < | SD2CL170 D14A (D2c-L) - Pier Form | work & Prep for Concreting (1st Lift) | 1 | 24-Mar-15 | 0% | 1 | 24-Mar-15 | 09-Oct-15 | 09-Oct-15 | 145 | 0 | 0°. | 6 |
| Specifie Div Div< Div Div Div Div< Div< Div< Div< Div< Div< Div< Div Div Div Div Div Div Div Div Div <thdiv< th=""> <thdiv< th=""> Div <thdiv< th=""></thdiv<></thdiv<></thdiv<> | SD2CL180 D14A (D2c-L) - Pier Cond | creting (1st Lift) | 1 | 25-Mar-15 | 0% | 1 | 25-Mar-15 | 10-Oct-15 | 10-Oct-15 | 145 | 0 | 0°. | 6 |
| Signal State Signal State <t< td=""><td>SD2CL182 D14A (D2c-L) - Pier Curir</td><td>ng & Striking of Forms incl. CJ prep (1st Lift)</td><td>2</td><td>26-Mar-15</td><td>0%</td><td>2</td><td>27-Mar-15</td><td>12-Oct-15</td><td>13-Oct-15</td><td>145</td><td>0</td><td>0°</td><td>6</td></t<> | SD2CL182 D14A (D2c-L) - Pier Curir | ng & Striking of Forms incl. CJ prep (1st Lift) | 2 | 26-Mar-15 | 0% | 2 | 27-Mar-15 | 12-Oct-15 | 13-Oct-15 | 145 | 0 | 0° | 6 |
| Space 10 0144/102-1-10 0140/102-1-00 | SD2CL190 D14A (D2c-L) - Pier Scaff | olding (2nd Lift) | 2 | 28-Mar-15 | 0% | 2 | 30-Mar-15 | 15-Oct-15 | 16-Oct-15 | 145 | 0 | 0° | 6 |
| EDUCATION 1 <th< td=""><td>SD2CL200 D14A (D2c-L) - Pier Reba</td><td>arwork (2nd Lift)</td><td>3</td><td>31-Mar-15</td><td>0%</td><td>3</td><td>02-Apr-15</td><td>17-Oct-15</td><td>20-Oct-15</td><td>145</td><td>0</td><td>0°</td><td>6</td></th<> | SD2CL200 D14A (D2c-L) - Pier Reba | arwork (2nd Lift) | 3 | 31-Mar-15 | 0% | 3 | 02-Apr-15 | 17-Oct-15 | 20-Oct-15 | 145 | 0 | 0° | 6 |
| 1 2012/2012 Dirk All 202-11, Per Caring A Siming of Form and LD prop (incl. Fr) 2 1 And Visit 000-16 400 control 400 contro 400 contro 400 contro 400 contro 400 control 400 contro 400 contro <t< td=""><td>SD2CL210 D14A (D2c-L) - Pier Form</td><td>nwork & Prep for Concreting (2nd Lift)</td><td>3</td><td>08-Apr-15</td><td>0%</td><td>3</td><td>10-Apr-15</td><td>22-Oct-15</td><td>24-Oct-15</td><td>145</td><td>0</td><td>0%</td><td>6</td></t<> | SD2CL210 D14A (D2c-L) - Pier Form | nwork & Prep for Concreting (2nd Lift) | 3 | 08-Apr-15 | 0% | 3 | 10-Apr-15 | 22-Oct-15 | 24-Oct-15 | 145 | 0 | 0% | 6 |
| Bit Section Desk Section Sect | SD2CL220 D14A (D2c-L) - Pier Cond | creting (2nd Lift) | 1 | 11-Apr-15 | 0% | 1 | 11-Apr-15 | 26-Oct-15 | 26-Oct-15 | 145 | 0 | 0% | 6 |
| Space Has Disk (D20-His) Plate House His (L1) 2 23-March 5 6% 2 Conduct 5 22-Doub 5 49 0 0% Space Has Disk (D20-R) Plate (D20-R) <td>SD2CL222 D14A (D2c-L) - Pier Curir</td> <td>ng & Striking of Forms incl. CJ prep (2nd Lift)</td> <td>2</td> <td>13-Apr-15</td> <td>0%</td> <td>2</td> <td>14-Apr-15</td> <td>27-Oct-15</td> <td>28-Oct-15</td> <td>145</td> <td>20</td> <td>0%</td> <td>6</td> | SD2CL222 D14A (D2c-L) - Pier Curir | ng & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 13-Apr-15 | 0% | 2 | 14-Apr-15 | 27-Oct-15 | 28-Oct-15 | 145 | 20 | 0% | 6 |
| SD2CR170 D144(102-8) Per for memorik & Per for conversing (1st Lift) 1 0 20-40-15 0% 2 01 Heyr 15 28-00-15 28-00-15 28-00-15 28-00-15 28-00-15 10 0 0 SD2CR182 D148 (02-81) - Per Conversing (1st Lift) 1 0 20-40-15 0% 2 0 Hours 28-00-15 10 0 <td>SD2CR150 D14B (D2c-R) - Pier Scat</td> <td>folding (1st Lift)</td> <td>2</td> <td>26-Mar-15</td> <td>0%</td> <td>2</td> <td>27-Mar-15</td> <td>17-Oct-15</td> <td>19-Oct-15</td> <td>149</td> <td>0</td> <td>0%</td> <td>6</td> | SD2CR150 D14B (D2c-R) - Pier Scat | folding (1st Lift) | 2 | 26-Mar-15 | 0% | 2 | 27-Mar-15 | 17-Oct-15 | 19-Oct-15 | 149 | 0 | 0% | 6 |
| Bit GD201400 Didd (Doc R) Parc Concentrag (Strut.P) 1 0 2 April 15 0% 1 0 Abort 15 20 Abort 5 140 0 000 SD2CR192 D14 (Doc R) Partal Concentrag Schroding 10 00 April 5 0% 12 00 April 5 20 Abort 5 28 Abort 5 140 0 0% SD2CR202 D14 (Doc R) Partal Concentrag Schroding 12 28 Abort 5 0% 12 28 Abort 5 20 Abort 5 125 0 0% SD2CR202 D14 (Doc R) Partal Been Schroding 12 23 Abort 5 0% 12 28 Abort 5 27 Abort 5 25 Abort 5 136 0 0% SD2CR202 D14 (Doc R) Tradition of 5H Fit (13 m) 0 20 Jam 15 A 77% 21 18 Abort 5 0% Abort 5 25 Abort 5 23 Jam 15 23 0 000 SD2CR202 D16 (Col 2) Fit cag Work E E E E E E E E E E E E E E E E E E E <td>SD2CR160 D14B (D2c-R) - Pier Reb</td> <td>arwork (1st Lift)</td> <td>2</td> <td>28-Mar-15</td> <td>0%</td> <td>2</td> <td>30-Mar-15</td> <td>20-Oct-15</td> <td>22-Oct-15</td> <td>149</td> <td>0</td> <td>0%</td> <td>6</td> | SD2CR160 D14B (D2c-R) - Pier Reb | arwork (1st Lift) | 2 | 28-Mar-15 | 0% | 2 | 30-Mar-15 | 20-Oct-15 | 22-Oct-15 | 149 | 0 | 0% | 6 |
| Sp202182 Dr4B (122-B) - Per Quing & Sinking of Forma Ind. C.I prep. (1% L.R) 2 06 Apr 15 0% 2 0.6 Apr 15 070.0 12 0.8 Apr 15 12.8 Apr 15 0.8 Apr 15 0.8 Apr 15 12.8 Apr 15 0.8 Apr 15 12.8 Apr 15 12.8 Apr 15 0.8 Apr 15 12.8 Apr 15 </td <td>SD2CR170 D14B (D2c-R) - Pier Forr</td> <td>nwork & Prep for Concreting (1st Lift)</td> <td>2</td> <td>31-Mar-15</td> <td>0%</td> <td>2</td> <td>01-Apr-15</td> <td>23-Oct-15</td> <td>24-Oct-15</td> <td>149</td> <td>0</td> <td>0%</td> <td>6</td> | SD2CR170 D14B (D2c-R) - Pier Forr | nwork & Prep for Concreting (1st Lift) | 2 | 31-Mar-15 | 0% | 2 | 01-Apr-15 | 23-Oct-15 | 24-Oct-15 | 149 | 0 | 0% | 6 |
| Process | SD2CR180 D14B (D2c-R) - Pier Con | creting (1st Lift) | 1 | 02-Apr-15 | 0% | 1 | 02-Apr-15 | 26-Oct-15 | 26-Oct-15 | 149 | 0 | 0% | 6 |
| SD2CR280 D14 (D2c) - Portal Seam Solit Formmork 12 15 May-16 0% 12 28 May-15 30-Oct-15 124 Nov-15 125 0 0% SD2CR280 D14 (D2c) - Pusit alleam Solit Formmork 10 16 Jac-15 0% 10 0%-15 128 0 0% SD2CR280 D14 (D2c) - Pusit alleam Solit Formmork 10 16 Jac-15 0% 0% 12 15 May-15 28 May-15 20 May-15 20 May<15 | SD2CR182 D14B (D2c-R) - Pier Curi | ng & Striking of Forms incl. CJ prep (1st Lift) | 2 | 08-Apr-15 | 0% | 2 | 09-Apr-15 | 27-Oct-15 | 28-Oct-15 | 149 | 24 | 0% | 6 |
| SD2CR220 D14 (D23) - Portal Baem Soft Formwork 12 2.9 Alley 16 0% 12 1.9 June 16 2.9 Alley 16 2.9 Alley 16 1.9 Bound 15 2.9 Alley 16 1.9 Bound 15 1.9 Boun | Portal | | | | | | | | | | | | |
| SD2CR300 D14 (D20). Portal Beam Rebarwork & Inserts 16 10-Jun 15 0% 16 09-Jul 15 27 Nov-15 125 0 0% Per D10 (D2) Socketed H=File Installation Socketed H=File Installation G FXX4420_ (D15 (D2))- Installation of SIP (P13 m) 90 20-Jam 15A 77% 21 19-Apr-15 24-Apr-15 23-Apr15 23 0 0% Pile Cap Works SO200000 D15 (D2)<- Pile cap Exavation / ELS (nd. sheet pling) 45 18-Apr-15 0% 45 22-Jun 15 24-Apr-15 23-Apr-15 28 0 0% Pile Cap Works S0200000 D16 (D2a)- Pile cap Exavation / ELS (nd. sheet pling) 22 21-Amr-15 0% 42 24-Apr-15 28-Apr-15 28-Apr-15 28-Apr-15 28-Apr-15 0.0 0% S0200100 D16 (D2a)- Pile cap Exavation / ELS (nd. sheet pling) 21 24-Apr-15 0% 1 28-Apr-15 0% 1 28-Apr-15 0% 0 0% 0% 0% 0% 0% 0% <th< td=""><td>SD2CR280 D14 (D2c) - Portal Beam</td><td>Scaffolding</td><td>12</td><td>13-May-15</td><td>0%</td><td>12</td><td>28-May-15</td><td>30-Oct-15</td><td>12-Nov-15</td><td>125</td><td>0</td><td>0%</td><td>6</td></th<> | SD2CR280 D14 (D2c) - Portal Beam | Scaffolding | 12 | 13-May-15 | 0% | 12 | 28-May-15 | 30-Oct-15 | 12-Nov-15 | 125 | 0 | 0% | 6 |
| Per D15 (D2b) Societted H-Hile Installation Societted H-Hile Installation (3H File (13 nr) Societe (3H File (13 nr)< | SD2CR290 D14 (D2c) - Portal Beam | Soffit Formwork | 12 | 29-May-15 | 0% | 12 | 15-Jun-15 | 13-Nov-15 | 26-Nov-15 | 125 | 0 | 0% | 6 |
| Socketted H-File Installation GF XXX44-2 18-Apr-15 24-Apr-15 19-Apr-15 19-Apr-15 25 0 Bio 20-Apr-15 27-Apr-15 24-Apr-15 19-Apr-15 23-Apr-15 24-Apr-15 24-Apr-15 24-Apr-15 24-Apr-15 24-Apr-15 23-Apr-15 23-Apr-15 23-Apr-15 23-Apr-15 23-Apr-15 24-Apr-15 <td>SD2CR300 D14 (D2c) - Portal Beam</td> <td>Rebarwork & Inserts</td> <td>16</td> <td>16-Jun-15</td> <td>0%</td> <td>16</td> <td>09-Jul-15</td> <td>27-Nov-15</td> <td>15-Dec-15</td> <td>125</td> <td>0</td> <td>0%</td> <td>6</td> | SD2CR300 D14 (D2c) - Portal Beam | Rebarwork & Inserts | 16 | 16-Jun-15 | 0% | 16 | 09-Jul-15 | 27-Nov-15 | 15-Dec-15 | 125 | 0 | 0% | 6 |
| GFXX46-2 D15 (D2b) - Installation of SH FNe (13 m) 90 20-Jan 15A 77% 21 18-Apr-15 24-Apr-15 19-May-15 25 0 30% FILE Cap Works 50280000 D15 (D2b) - Pile cap Exacutation / ELS (ind. sheet piling) 45 19-Apr-15 0% 45 22-Juin 15 24-Apr-15 | Pier D15 (D2b) | | | | | | | | | | | | |
| Pile Cap Works Pile Cap Kazvation / ELS (md. sheet pring) 45 18 Apr-15 0% 45 22-Jun-15 23-Jun-15 23-Jun-1 | Socketted H-Pile Installation | | | | | | | | | | | | |
| SD2B0090 D15 (D2b) - Pile cap Exavation / ELS (ind. sheet piling) 45 18 Apr-15 0% 45 22-Jun-15 23-Jul-15 23 0 0% Pile Cap Works Pile Cap Works SD2A0090 D16 (D2a) - Pile cap Exavation / ELS (ind. sheet piling) 22 21-Apr-15 0% 42 27-Apr-15 28-May-15 04-Jul-15 24-Jul-15 28 0 0% SD2A0090 D16 (D2a) - Pile cap Exavation / ELS (ind. sheet piling) 22 21-Apr-15 0% 4 27-Apr-15 28-May-15 02-Jul-15 03-Jul-15 04 04-Jul-15 02-Jul-15 03-Jul-15 04 04-Jul-15 02-Jul-15 03-Jul-15 04 04-Jul-15 02-Jul-15 03-Jul-15 04 04-Jul-15 04-Jul-15 04 04-Jul-15 04-Jul-15 04 04-Jul-15 04-Jul-15 04-Jul-15 04-Jul-15 04-Jul-15 04-Jul-15 04-Jul-15 04-Jul-15 04-Jul-15 04-Ju | GFXX446-2 D15 (D2b) - Installation of | f SH Pile (13 nr) | 90 | 20-Jan-15 A | 77% | 21 | 18-Apr-15 | 24-Apr-15 | 19-May-15 | 25 | 0 | 30% | 6 |
| Pier D18 (D2a) D16 (D2a) - Pie cap Excavation / ELS (ind. sheet pling) 22 21 - Apr-15 0% 4 27 - Apr-15 28 - Apr-15 0% 4 27 - Apr-15 28 - Apr-15 0% 4 27 - Apr-15 0% 4 04 - May-15 0% 20 - Apr-15 0% 4 04 - May-15 0% 1 04 - May-15 0% 1 04 - May-15 0% 1 04 - May-15 0% 0 0 0 0 0 0 | Pile Cap Works | | | | | | | | | | | | |
| Pile Cap Works Standard State Stat | SD2B0090 D15 (D2b) - Pile cap Exca | avation / ELS (incl. sheet piling) | 45 | 18-Apr-15 | 0% | 45 | 22-Jun-15 | 20-May-15 | 23-Jul-15 | 23 | 0 | 0% | 6 |
| SD2A0090 D16 (D2a) - Pile cap Excavation / ELS (ind: sheet piling) 22 21-Mar-15 0% 22 21-Mar-15 28-Apr-15 28-Apr-15 28-Mar-15 0% 4 27-Apr-15 0% 4 27-Apr-15 0% 4 07-Apr-15 0% 4 07-Apr-15 28-Mar-15 0% 0% 1 28-Apr-15 0% 4 07-Apr-15 28-Mar-15 0% 0% 1 08-Apr-15 0% 4 07-Apr-15 28-Mar-15 0% 0% 1 08-Apr-15 0% 0% 1 08-Apr-15 0% 1 08-Apr-15 0% 1 08-Apr-15 08 | Pier D16 (D2a) | | | | | | | | | | | | |
| SD2A0092 D16 (D2a) - Pile cap Pile breakdown to cut-off etc. 4 22-Apr-15 0% 4 27-Apr-15 28-May-15 01-Jun-15 26 0 0% SD2A0100 D16 (D2a) - Pile cap Formwork 3 05-May-15 0% 1 28-May-15 02-Jun-15 02-Jun-15 02-Jun-15 02 0 0% SD2A0100 D16 (D2a) - Pile cap Formwork 4 29-Apr-15 0% 4 04-May-15 04-Jun-15 04-Jun-15 04 0 0% SD2A0102 D16 (D2a) - Pile cap Roberwork 2 09-May-15 0% 2 11-May-15 24-Jun-15 30 4 0% SD2A0102 D16 (D2a) - Pile cap Kicker Formwork 2 09-May-15 0% 1 08-May-15 15-Jun-15 26 0 0% 0 0% 1 08-Jun-15 26-Jun-15 26 0 0% 0 0% 1 08-Jun-15 28-Jun-15 28-Jun | Pile Cap Works | | | | | | | | | | | | |
| SD2A0100 D16 (D2a) - Pile cap Biending 1 28-Apr-15 0% 1 28-Apr-15 02-Jun-15 02-Jun-15 26 0 0% SD2A0110 D16 (D2a) - Pile cap Rebarwork 3 05-May-15 0% 3 07-May-15 10-Jun-15 13-Jun-15 26 0 0% SD2A0120 D16 (D2a) - Pile cap Rebarwork 2 29-May-15 0% 4 04-May-15 04-May-15 08-Jun-15 26 0 0% SD2A0120 D16 (D2a) - Pile cap Concreting 1 08-May-15 0% 1 08-May-15 15-Jun-15 26 0 0% SD2A0140 D16 (D2a) - Pile cap Concreting 1 08-May-15 0% 6 16-May-15 15-Jun-15 26 0 0% SD2A0150 D16 (D2a) - Type 5B Pier Scaffolding (1st Lift) 2 28-May-15 0% 3 23-May-15 03-Jun-15 26 0 0% SD2A0160 D16 (D2a) - Type 5B Pier Formwork & Prep for Concreting (1st Lift) 2 28-May-15 0% 3 23-May-15 03-Jun-15 26 0 0% SD2 | SD2A0090 D16 (D2a) - Pile cap Exca | avation / ELS (incl. sheet piling) | 22 | 21-Mar-15 | 0% | 22 | 21-Apr-15 | 28-Apr-15 | 27-May-15 | 26 | 0 | 0% | 6 |
| SD2A0110 D16 (D2a) - Pile cap Rebarwork 3 05-May-15 0% 3 07-May-15 10-Jun-15 12-Jun-15 26 0 0% SD2A0120 D16 (D2a) - Pile cap Rebarwork 4 29-Apr-15 0% 4 04-May-15 04-Jun-15 04-Jun-15 26 0 0% SD2A0120 D16 (D2a) - Pile cap Rebarwork 2 09-May-15 0% 1 08-May-15 15-Jun-15 26 0 0% SD2A0130 D16 (D2a) - Pile cap Concreting 1 08-May-15 0% 1 08-May-15 15-Jun-15 26 0 0% SD2A0140 D16 (D2a) - Type 58 Piler cap Concreting 10 08-May-15 0% 1 08-May-15 15-Jun-15 26 0 0% SD2A0160 D16 (D2a) - Type 58 Piler cap Concreting (1st Lift) 2 18-May-15 0% 3 23-May-15 03-Jun-15 26 0 0% SD2A0170 D16 (D2a) - Type 58 Piler Formwork & Prep for Concreting (1st Lift) 2 26-May-15 0% 1 28-May-15 07-Jul-15 26 0 0% 0 0% | SD2A0092 D16 (D2a) - Pile cap Pile | breakdown to cut-off etc. | 4 | 22-Apr-15 | 0% | 4 | 27-Apr-15 | 28-May-15 | 01-Jun-15 | 26 | 0 | 0% | 6 |
| SD2A0120 D16 (D2a) - Pile cap Rebarwork 4 29-Apr-15 0% 4 04-May-15 04-Jun-15 08-Jun-15 26 0 0% SD2A0122 D16 (D2a) - Pile cap Kicker Formwork 2 09-May-15 0% 1 08-Jun-15 26-Jun-15 30 4 0% SD2A0130 D16 (D2a) - Pile cap Kicker Formwork 2 09-May-15 0% 1 08-May-15 15-Jun-15 26-Jun-15 26 0 0% SD2A0140 D16 (D2a) - Pile cap Concreting Striking of Forms ind. CJ prep 6 09-May-15 0% 1 08-May-15 16-Jun-15 26-Jun-15 26 0 0% SD2A0150 D16 (D2a) - Type 5B Pier Kearwork (1st Lift) 2 18-May-15 0% 3 23-May-15 04-Jun-15 06-Jun-15 26 0 0% SD2A0170 D16 (D2a) - Type 5B Pier Kearwork (1st Lift) 2 28-May-15 0% 2 37-May-15 04-Ju1-15 06-Ju1-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 2 29-May-15 0% 2 37-May-15 0 | SD2A0100 D16 (D2a) - Pile cap Blind | ding | 1 | 28-Apr-15 | 0% | 1 | 28-Apr-15 | 02-Jun-15 | 02-Jun-15 | 26 | 0 | 0% | 6 |
| SD2A0122 D16 (D2a) - Pile cap Kicker Forrmwork 2 09-May-15 0% 2 11-May-15 24-Jun-15 26-Jun-15 30 4 0% SD2A0130 D16 (D2a) - Pile cap Concreting 1 08-May-15 0% 1 08-May-15 15-Jun-15 15-Jun-15 26 0 0% SD2A0140 D16 (D2a) - Pile cap Concreting 6 09-May-15 0% 6 16-May-15 16-Jun-15 26-Jun-15 26 0 0% VEXAULTS 0% 6 16-May-15 0% 2 19-May-15 27-Jun-15 26 0 0% SD2A0150 D16 (D2a) - Type 58 Pier Scatfolding (1st Lift) 2 26-May-15 0% 3 23-May-15 30-Jun-15 26 0 0% SD2A0160 D16 (D2a) - Type 58 Pier Scatfolding (1st Lift) 2 26-May-15 0% 1 28-May-15 0%-Jun-15 04-Jul-15 06-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 58 Pier Concreting (1st Lift) 2 29-May-15 0% 1 28-May-15 0%-Jul-15 0%-Jul-15 <td< td=""><td>SD2A0110 D16 (D2a) - Pile cap Forr</td><td>nwork</td><td>3</td><td>05-May-15</td><td>0%</td><td>3</td><td>07-May-15</td><td>10-Jun-15</td><td>13-Jun-15</td><td>26</td><td>0</td><td>0%</td><td>6</td></td<> | SD2A0110 D16 (D2a) - Pile cap Forr | nwork | 3 | 05-May-15 | 0% | 3 | 07-May-15 | 10-Jun-15 | 13-Jun-15 | 26 | 0 | 0% | 6 |
| SD2A0130 D16 (D2a) - Pile cap Concreting 1 08-May-15 0% 1 08-May-15 15-Jun-15 26 0 0% SD2A0140 D16 (D2a) - Pile cap Curing & Striking of Forms incl. CJ prep 6 09-May-15 0% 6 16-May-15 15-Jun-15 26 0 0% Pier Works U U 2 18-May-15 0% 2 19-May-15 27-Jun-15 26 0 0% SD2A0150 D16 (D2a) - Type 5B Pier Rebarwork (1st Lift) 2 18-May-15 0% 2 19-May-15 03-Jun-15 26 0 0% SD2A0160 D16 (D2a) - Type 5B Pier Rebarwork (1st Lift) 2 26-May-15 0% 2 27-May-15 04-Jul-15 06-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 2 28-May-15 0% 1 28-May-15 07-Jul-15 08-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) 2 29-May-15 0% 2 03-Jul-15 07-Jul-15 08-Jul-15 26 < | SD2A0120 D16 (D2a) - Pile cap Reb | arwork | 4 | 29-Apr-15 | 0% | 4 | 04-May-15 | 04-Jun-15 | 08-Jun-15 | 26 | 0 | 0% | 6 |
| SD2A0140 D16 (D2a) - Pile cap Curing & Striking of Forms incl. CJ prep 6 09-May-15 0% 6 16-May-15 16-Jun-15 26-Jun-15 26 0 0% Pier Works SD2A0150 D16 (D2a) - Type 5B Pier Scaffolding (1st Lift) 2 18-May-15 0% 2 19-May-15 27-Jun-15 26-Jun-15 27-Jun-15 27-Jun-15 <th< td=""><td>SD2A0122 D16 (D2a) - Pile cap Kick</td><td>er Formwork</td><td>2</td><td>09-May-15</td><td>0%</td><td>2</td><td>11-May-15</td><td>24-Jun-15</td><td>26-Jun-15</td><td>30</td><td>4</td><td>0%</td><td>6</td></th<> | SD2A0122 D16 (D2a) - Pile cap Kick | er Formwork | 2 | 09-May-15 | 0% | 2 | 11-May-15 | 24-Jun-15 | 26-Jun-15 | 30 | 4 | 0% | 6 |
| Pier Works SD2A0150 D16 (D2a) - Type 5B Pier Scaffolding (1st Lift) 2 18-May-15 0% 2 19-May-15 27-Jun-15 29-Jun-15 26 0 0% SD2A0160 D16 (D2a) - Type 5B Pier Rebarwork (1st Lift) 3 20-May-15 0% 3 23-May-15 30-Jun-15 03-Jul-15 26 0 0% SD2A0170 D16 (D2a) - Type 5B Pier Rebarwork (1st Lift) 2 26-May-15 0% 2 27-May-15 04-Jul-15 06-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 1 28-May-15 0% 1 28-May-15 07-Jul-15 07-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 2 29-May-15 0% 2 30-May-15 08-Jul-15 08-Jul-15 26 0 0% SD2A0190 D16 (D2a) - Type 5B Pier Scaffolding (2nd Lift) 2 01-Jul-15 0% 3 06-Jul-15 13-Jul-15 26 0 0% 0% <t< td=""><td>SD2A0130 D16 (D2a) - Pile cap Con</td><td>creting</td><td>1</td><td>08-May-15</td><td>0%</td><td>1</td><td>08-May-15</td><td>15-Jun-15</td><td>15-Jun-15</td><td>26</td><td>0</td><td>0%</td><td>6</td></t<> | SD2A0130 D16 (D2a) - Pile cap Con | creting | 1 | 08-May-15 | 0% | 1 | 08-May-15 | 15-Jun-15 | 15-Jun-15 | 26 | 0 | 0% | 6 |
| SD2A0150 D16 (D2a) - Type 5B Pier Scaffolding (1st Lift) 2 18-May-15 0% 2 19-May-15 27-Jun-15 26 0 0% SD2A0160 D16 (D2a) - Type 5B Pier Rebarwork (1st Lift) 3 20-May-15 0% 3 23-May-15 30-Jun-15 26 0 0% SD2A0170 D16 (D2a) - Type 5B Pier Rebarwork (1st Lift) 2 26-May-15 0% 1 28-May-15 04-Jul-15 06-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 1 28-May-15 0% 1 28-May-15 07-Jul-15 26 0 0% SD2A0190 D16 (D2a) - Type 5B Pier Couring & Striking of Forms incl. CJ prep (1st Lift) 2 29-May-15 0% 2 30-May-15 08-Jul-15 26 0 0% SD2A0190 D16 (D2a) - Type 5B Pier Scaffolding (2nd Lift) 2 01-Jun-15 0% 2 30-Jul-15 10-Jul-15 11-Jul-15 26 0 0% SD2A0200 D16 (D2a) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift) 3 04-Jun-15 0% 3 12-Jul-15 26 < | SD2A0140 D16 (D2a) - Pile cap Curi | ng & Striking of Forms incl. CJ prep | 6 | 09-May-15 | 0% | 6 | 16-May-15 | 16-Jun-15 | 26-Jun-15 | 26 | 0 | 0% | 6 |
| SD2A0160 D16 (D2a) - Type 5B Pier Rebarwork (1st Lift) 3 20-May-15 0% 3 23-May-15 03-Jul-15 26 0 0% SD2A0170 D16 (D2a) - Type 5B Pier Rebarwork (1st Lift) 2 26-May-15 0% 1 28-May-15 04-Jul-15 06-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 1 28-May-15 0% 1 28-May-15 07-Jul-15 06-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 2 29-May-15 0% 1 28-May-15 09-Jul-15 09-Jul-15 26 0 0% SD2A0182 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) 2 01-Jun-15 0% 2 02-Jun-15 10-Jul-15 26 0 0% | Pier Works | | | | | | | | | | | | |
| SD2A0170 D16 (D2a) - Type 5B Pier Formwork & Prep for Concreting (1st Lift) 2 26-May-15 0% 2 27-May-15 04-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 1 28-May-15 0% 1 28-May-15 07-Jul-15 26 0 0% SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 2 29-May-15 0% 2 30-May-15 08-Jul-15 06-Jul-15 26 0 0% SD2A0190 D16 (D2a) - Type 5B Pier Scaffolding (2nd Lift) 2 01-Jun-15 0% 3 06-Jul-15 11-Jul-15 26 0 0% SD2A0200 D16 (D2a) - Type 5B Pier Rebarwork (2nd Lift) 3 04-Jun-15 0% 3 06-Jul-15 13-Jul-15 26 0 0% SD2A0200 D16 (D2a) - Type 5B Pier Rebarwork (2nd Lift) 3 08-Jun-15 0% 3 12-Jun-15 17-Jul-15 26 0 0% 0% 3 12-Jul-15 17-Jul-15 20-Jul-15 26 0 0% 0% 3 12-Jul-15 21-Jul-15 24-Jul-15 24-Jul- | SD2A0150 D16 (D2a) - Type 5B Pier | Scaffolding (1st Lift) | 2 | 18-May-15 | 0% | 2 | 19-May-15 | 27-Jun-15 | 29-Jun-15 | 26 | 0 | 0% | 6 |
| SD2A0180 D16 (D2a) - Type 5B Pier Concreting (1st Lift) 1 28-May-15 0% 1 28-May-15 07-Jul-15 26 0 0% SD2A0182 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) 2 29-May-15 0% 2 30-May-15 08-Jul-15 09-Jul-15 26 0 0% SD2A0190 D16 (D2a) - Type 5B Pier Scaffolding (2nd Lift) 2 01-Jun-15 0% 2 02-Jun-15 10-Jul-15 11-Jul-15 26 0 0% SD2A0200 D16 (D2a) - Type 5B Pier Rebarwork (2nd Lift) 3 04-Jun-15 0% 3 06-Jun-15 13-Jul-15 15-Jul-15 26 0 0% SD2A0200 D16 (D2a) - Type 5B Pier Rebarwork (2nd Lift) 3 08-Jun-15 0% 3 12-Jun-15 17-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Concreting (2nd Lift) 1 13-Jun-15 0% 1 13-Jun-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) 2 15-Jun-15 0% 2 16-Jun-15 22-Jul-1 | SD2A0160 D16 (D2a) - Type 5B Pier | Rebarwork (1st Lift) | 3 | 20-May-15 | 0% | 3 | 23-May-15 | 30-Jun-15 | 03-Jul-15 | 26 | 0 | 0% | 6 |
| SD2A0182 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) 2 29-May-15 0% 2 30-May-15 08-Jul-15 09-Jul-15 26 0 0% SD2A0190 D16 (D2a) - Type 5B Pier Scaffolding (2nd Lift) 2 01-Jun-15 0% 2 02-Jun-15 10-Jul-15 11-Jul-15 26 0 0% SD2A0200 D16 (D2a) - Type 5B Pier Scaffolding (2nd Lift) 3 04-Jun-15 0% 3 06-Jun-15 13-Jul-15 15-Jul-15 26 0 0% SD2A0210 D16 (D2a) - Type 5B Pier Rebarwork (2nd Lift) 3 08-Jun-15 0% 3 12-Jun-15 17-Jul-15 20-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Concreting (2nd Lift) 1 13-Jun-15 0% 1 13-Jun-15 21-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Concreting (2nd Lift) 1 13-Jun-15 0% 1 13-Jun-15 21-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) 2 15-Jun-15 0% <t< td=""><td>SD2A0170 D16 (D2a) - Type 5B Pier</td><td>Formwork & Prep for Concreting (1st Lift)</td><td>2</td><td>26-May-15</td><td>0%</td><td>2</td><td>27-May-15</td><td>04-Jul-15</td><td>06-Jul-15</td><td>26</td><td>0</td><td>0%</td><td>6</td></t<> | SD2A0170 D16 (D2a) - Type 5B Pier | Formwork & Prep for Concreting (1st Lift) | 2 | 26-May-15 | 0% | 2 | 27-May-15 | 04-Jul-15 | 06-Jul-15 | 26 | 0 | 0% | 6 |
| SD2A0190 D16 (D2a) - Type 5B Pier Scaffolding (2nd Lift) 2 01-Jun-15 0% 2 02-Jun-15 10-Jul-15 11-Jul-15 26 0 0% SD2A0200 D16 (D2a) - Type 5B Pier Rebarwork (2nd Lift) 3 04-Jun-15 0% 3 06-Jun-15 13-Jul-15 15-Jul-15 26 0 0% SD2A0210 D16 (D2a) - Type 5B Pier Rebarwork (2nd Lift) 3 08-Jun-15 0% 3 12-Jun-15 17-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift) 1 13-Jun-15 0% 3 12-Jun-15 17-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Concreting (2nd Lift) 1 13-Jun-15 0% 1 13-Jun-15 21-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) 2 15-Jun-15 0% 3 22-Jul-15 23-Jul-15 26 0 0% SD2A0230 D16 (D2a) - Type 5B Pier Head Scaffolding 3 18-Jun-15 0% 3 22-Jul-15 24-Jul-15 <t< td=""><td>SD2A0180 D16 (D2a) - Type 5B Pier</td><td>Concreting (1st Lift)</td><td>1</td><td>28-May-15</td><td>0%</td><td>1</td><td>28-May-15</td><td>07-Jul-15</td><td>07-Jul-15</td><td>26</td><td>0</td><td>0%</td><td>6</td></t<> | SD2A0180 D16 (D2a) - Type 5B Pier | Concreting (1st Lift) | 1 | 28-May-15 | 0% | 1 | 28-May-15 | 07-Jul-15 | 07-Jul-15 | 26 | 0 | 0% | 6 |
| SD2A0200 D16 (D2a) - Type 5B Pier Rebarwork (2nd Lift) 3 04-Jun-15 0% 3 06-Jun-15 13-Jul-15 15-Jul-15 26 0 0% SD2A0210 D16 (D2a) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift) 3 08-Jun-15 0% 3 12-Jun-15 17-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Concreting (2nd Lift) 1 13-Jun-15 0% 1 13-Jun-15 21-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Concreting (2nd Lift) 1 13-Jun-15 0% 1 13-Jun-15 21-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) 2 15-Jun-15 0% 2 16-Jun-15 22-Jul-15 23-Jul-15 26 0 0% SD2A0230 D16 (D2a) - Type 5B Pier Head Scaffolding 3 18-Jun-15 0% 3 22-Jun-15 24-Jul-15 26 0 0% SD2A0230 D16 (D2a) - Type 5B Pier Head Scaffolding 3 18-Jun-15 0% 3 22-Jun-15 24-Jul-15 26< | SD2A0182 D16 (D2a) - Type 5B Pier | Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 29-May-15 | 0% | 2 | 30-May-15 | 08-Jul-15 | 09-Jul-15 | 26 | 0 | 0% | 6 |
| SD2A0210 D16 (D2a) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift) 3 08-Jun-15 0% 3 12-Jun-15 17-Jul-15 20-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Concreting (2nd Lift) 1 13-Jun-15 0% 1 13-Jun-15 21-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Concreting (2nd Lift) 1 13-Jun-15 0% 1 13-Jun-15 21-Jul-15 26 0 0% SD2A0222 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) 2 15-Jun-15 0% 2 16-Jun-15 22-Jul-15 23-Jul-15 26 0 0% SD2A0230 D16 (D2a) - Type 5B Pier Head Scaffolding 3 18-Jun-15 0% 3 22-Jul-15 24-Jul-15 26 0 0% SD2A0230 D16 (D2a) - Type 5B Pier Head Scaffolding 3 18-Jun-15 0% 3 22-Jun-15 24-Jul-15 26 0 0% Actual Work Project ID: J3518DWPrE-M22 Image: Tage to the tage to | SD2A0190 D16 (D2a) - Type 5B Pier | Scaffolding (2nd Lift) | 2 | 01-Jun-15 | 0% | 2 | 02-Jun-15 | 10-Jul-15 | 11-Jul-15 | 26 | 0 | 0% | 6 |
| SD2A0220 D16 (D2a) - Type 5B Pier Concreting (2nd Lift) 1 13-Jun-15 0% 1 13-Jun-15 21-Jul-15 26 0 0% SD2A0222 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) 2 15-Jun-15 0% 2 16-Jun-15 22-Jul-15 23-Jul-15 26 0 0% SD2A0220 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) 2 15-Jun-15 0% 3 22-Jul-15 23-Jul-15 26 0 0% SD2A0230 D16 (D2a) - Type 5B Pier Head Scaffolding 3 18-Jun-15 0% 3 22-Jun-15 24-Jul-15 26 0 0% Actual Work Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_Filter: TASK filters: 3-Month Lookahead, No CQ Wilestones No Level of Effort Tuen Mun - Chek Lap Kok Link - Southern Connection (Progress as of 21-Mar-15) Date Revision Checked Approve 09-Mar-15 | SD2A0200 D16 (D2a) - Type 5B Pier | Rebarwork (2nd Lift) | 3 | 04-Jun-15 | 0% | 3 | 06-Jun-15 | 13-Jul-15 | 15-Jul-15 | 26 | 0 | 0% | 6 |
| SD2A0222 D16 (D2a) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) 2 15-Jun-15 0% 2 16-Jun-15 23-Jul-15 26 0 0% SD2A0230 D16 (D2a) - Type 5B Pier Head Scaffolding 3 18-Jun-15 0% 3 22-Jun-15 24-Jul-15 26 0 0% Actual Work Project ID: J3518DWPrE-M22 Tuen Mun - Chek Lap Kok Link - Southern Connection Date Revision Checked Approve Planned Bar Critical Bar Filter: TASK filters: 3-Month Lookahead, No CC GProgress as of 21-Mar-15) DB 1-Mar-15 WY | , , , , , , , , , , , , , , , , , , , | | 3 | 08-Jun-15 | | 3 | 12-Jun-15 | | 20-Jul-15 | 26 | 0 | | |
| SD2A0230 D16 (D2a) - Type 5B Pier Head Scaffolding 3 18-Jun-15 0% 3 22-Jun-15 24-Jul-15 27-Jul-15 26 0 0% Actual Work Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_ Tuen Mun - Chek Lap Kok Link - Southern Connection Date Revision Checked Approve Planned Bar Filter: TASK filters: 3-Month Lookahead, No CC Group of Effort Group of Effort DB 09-Mar-15 DB 09-Mar-15 09-Mar-15 09-Mar-15 00 | , , , , , , , , , , , , , , , , , , , | | 1 | 13-Jun-15 | 0% | 1 | | | 21-Jul-15 | 26 | 0 | | |
| Actual Work Project ID: J3518DWPrE-M22 Tuen Mun - Chek Lap Kok Link - Southern Connection Date Revision Checked Approve Planned Bar Filter: TASK filters: 3-Month Lookahead, No CC Filter: TASK filters: 3-Month Lookahead, No CC Grogress as of 21-Mar-15 DB DB Critical Bar WY Milestones No Level of Effort WY DB | SD2A0222 D16 (D2a) - Type 5B Pier | Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 15-Jun-15 | 0% | 2 | 16-Jun-15 | | 23-Jul-15 | 26 | 0 | | |
| Planned Bar Silter: TASK filters: 3-Month Lookahead, No CC Office State Office State Office State Office State Office State Office State Critical Bar Milestones No Level of Effort Milestones No Level of Effort Office State < | SD2A0230 D16 (D2a) - Type 5B Pier | Head Scaffolding | 3 | 18-Jun-15 | 0% | 3 | 22-Jun-15 | 24-Jul-15 | 27-Jul-15 | 26 | 0 | 0% | 6 |
| Planned Bar Silter: TASK filters: 3-Month Lookahead, No CC Critical Bar Milestones, No Level of Effort | Actual Work | roject ID: J3518DWPrE-M22 | Tuen Mun - Cl | hek Lap Kok I | ink - Sou | thern (| Connection | | Date | Revi | sion | Checked | Approve |
| Critical Bar (Progress as of 21-Mar-15) | Planned Bar | - | | - | | | | es) | | | | | |
| | Chucai Bai | | | | • | - | - | | 31-Mar-15 | | ۷ | ٧Y | |
| | Milestone | | Υ. | | | | - | | | | | | |



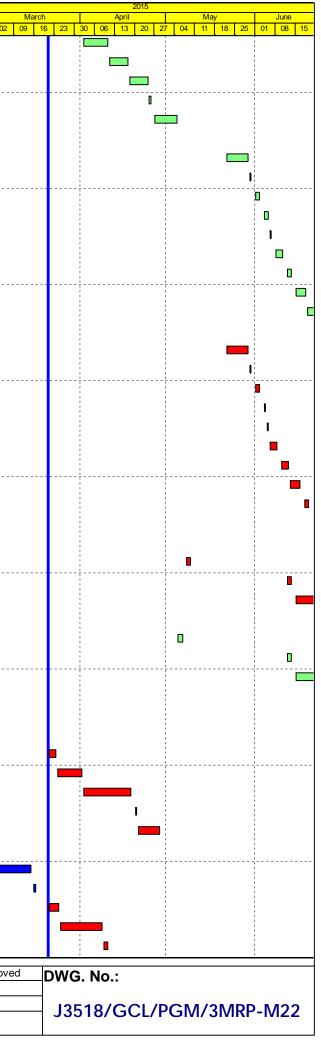
| | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|-----------------------------|--|---------------|--------------------------------|------------------------|---------------|----------------------------------|------------|------------------------|-------------|------------|------------------------|
| Pier D17 (D1d |) | | 1 | | I | 1 | | | | | |
| Pile Cap Wo | rks | | | | | | | | | | |
| SD1D0092 | D17 (D1d) - Pile cap Pile breakdown to cut-off etc. | 4 | 14-Feb-15 A | 100% | 0 | 11-Mar-15 A | | | | | 100% |
| SD1D0110 | D17 (D1d) - Pile cap Formwork | 3 | 12-Mar-15 A | 100% | 0 | 13-Mar-15 A | | | | | 100% |
| SD1D0120 | D17 (D1d) - Pile cap Rebarwork | 4 | 20-Mar-15 A | 0% | 4 | 25-Mar-15 | 25-Apr-18 | 30-Apr-18 | 859 | 859 | 0% |
| SD1D0122 | D17 (D1d) - Pile cap Kicker Formwork | 2 | 23-Mar-15 | 0% | 2 | 24-Mar-15 | 31-Mar-17 | 01-Apr-17 | 564 | 130 | 0% |
| SD1D0130 | D17 (D1d) - Pile cap Concreting | 1 | 21-Mar-15 | 0% | 1 | 21-Mar-15 | 11-Mar-17 | 11-Mar-17 | 548 | 0 | 0% |
| SD1D0140 | D17 (D1d) - Pile cap Curing & Striking of Forms incl. CJ prep | 6 | 23-Mar-15 | 0% | 6 | 28-Mar-15 | 23-Apr-18 | 30-Apr-18 | 856 | 856 | 0% |
| Pier Works | | | | | | | | | | | |
| SD1D0150 | D17 (D1d) - Type 5B-B Pier Scaffolding (1st Lift) | 2 | 11-Mar-15 A | 100% | 0 | 13-Mar-15 A | | | | | 100% |
| SD1D0160 | D17 (D1d) - Type 5B-B Pier Rebarwork (1st Lift) | 3 | 21-Mar-15 | 0% | 3 | 24-Mar-15 | 13-Aug-15 | 15-Aug-15 | 103 | 0 | 0% |
| SD1D0170 | D17 (D1d) - Type 5B-B Pier Formwork & Prep for Concreting (1st Lift) | 3 | 25-Mar-15 | 0% | 3 | 27-Mar-15 | 17-Aug-15 | 19-Aug-15 | 103 | 0 | 0% |
| SD1D0180 | D17 (D1d) - Type 5B-B Pier Concreting (1st Lift) | 1 | 28-Mar-15 | 0% | 1 | 28-Mar-15 | 21-Aug-15 | 21-Aug-15 | 103 | 0 | 0% |
| SD1D0182 | D17 (D1d) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (* | 1st Lift) 2 | 30-Mar-15 | 0% | 2 | 31-Mar-15 | 22-Aug-15 | 24-Aug-15 | 103 | 0 | 0% |
| SD1D0190 | D17 (D1d) - Type 5B-B Pier Head Scaffolding | 3 | 01-Apr-15 | 0% | 3 | 08-Apr-15 | 25-Aug-15 | 27-Aug-15 | 103 | 0 | 0% |
| SD1D0200 | D17 (D1d) - Type 5B-B Pier Head Rebarwork | 4 | 09-Apr-15 | 0% | 4 | 13-Apr-15 | 28-Aug-15 | 01-Sep-15 | 103 | 0 | 0% |
| SD1D0210 | D17 (D1d) - Type 5B-B Pier Head Formwork & Prep for Concreting | 4 | 14-Apr-15 | 0% | 4 | 18-Apr-15 | 02-Sep-15 | 05-Sep-15 | 103 | 0 | 0% |
| SD1D0220 | D17 (D1d) - Type 5B-B Pier Head Concreting | 1 | 20-Apr-15 | 0% | 1 | 20-Apr-15 | 07-Sep-15 | 07-Sep-15 | 103 | 0 | 0% |
| SD1D0310 | D17 (D1d) - Type 5B-B Pier Head Curing/Striking of Forms/Remove S | Scaffolding 6 | 21-Apr-15 | 0% | 6 | 28-Apr-15 | 08-Sep-15 | 15-Sep-15 | 103 | 0 | 0% |
| SD1D0320 | D17 (D1d) - Type 5B-B Pier Backfilling Works | 4 | 29-Apr-15 | 0% | 4 | 04-May-15 | 16-Sep-15 | 21-Sep-15 | 103 | 6 | 0% |
| Pier Head Se | gments | | | | | | | | | | |
| SD1D0370 | D17 (D1d) - Pier Head Segment - Temporary Platform | 6 | 13-May-15 | 0% | 6 | 19-May-15 | 22-Sep-15 | 29-Sep-15 | 97 | 88 | 0% |
| Pier D18 (D1c |) | | | | | | | | | | |
| Pier Works | | | | | | | | | | | |
| SD1C0150 | D18 (D1c) - Type 5B-B Pier Scaffolding (1st Lift) | 2 | 11-Mar-15 A | 100% | 0 | 13-Mar-15 A | | | | | 100% |
| SD1C0160 | D18 (D1c) - Type 5B-B Pier Rebarwork (1st Lift) | 3 | 17-Mar-15 A | 100% | 0 | 20-Mar-15 A | | | | | 100% |
| SD1C0170 | D18 (D1c) - Type 5B-B Pier Formwork & Prep for Concreting (1st Lift) | 3 | 20-Mar-15 A | 65% | 1 | 23-Mar-15 | 14-Sep-15 | 15-Sep-15 | 129 | 0 | 0% |
| SD1C0180 | D18 (D1c) - Type 5B-B Pier Concreting (1st Lift) | 1 | 23-Mar-15 | 0% | 1 | 24-Mar-15 | 16-Sep-15 | 16-Sep-15 | 129 | 0 | 0% |
| SD1C0182 | D18 (D1c) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (1 | 1 st Lift) 2 | 24-Mar-15 | 0% | 2 | 26-Mar-15 | 18-Sep-15 | 19-Sep-15 | 129 | 0 | 0% |
| SD1C0190 | D18 (D1c) - Type 5B-B Pier Head Scaffolding | 3 | 26-Mar-15 | 0% | 3 | 30-Mar-15 | 21-Sep-15 | 23-Sep-15 | 129 | 0 | 0% |
| SD1C0200 | D18 (D1c) - Type 5B-B Pier Head Rebarwork | 4 | 30-Mar-15 | 0% | 4 | 08-Apr-15 | 24-Sep-15 | 29-Sep-15 | 129 | 0 | 0% |
| SD1C0210 | D18 (D1c) - Type 5B-B Pier Head Formwork & Prep for Concreting | 4 | 08-Apr-15 | 0% | 4 | 13-Apr-15 | 30-Sep-15 | 05-Oct-15 | 129 | 0 | 0% |
| SD1C0220 | D18 (D1c) - Type 5B-B Pier Head Concreting | 1 | 13-Apr-15 | 0% | 1 | 14-Apr-15 | 06-Oct-15 | 06-Oct-15 | 129 | 0 | 0% |
| SD1C0310 | D18 (D1c) - Type 5B-B Pier Head Curing/Striking of Forms/Remove S | caffolding 6 | 14-Apr-15 | 0% | 6 | 22-Apr-15 | 07-Oct-15 | 13-Oct-15 | 129 | 0 | 0% |
| SD1C0320 | D18 (D1c) - Type 5B-B Pier Backfilling Works | 4 | 22-Apr-15 | 0% | 4 | 28-Apr-15 | 15-Oct-15 | 19-Oct-15 | 129 | 11 | 0% |
| Pier Head Se | gments | | I <u></u> | 1 | | 1 | | | | | |
| SD1C0370 | D18 (D1c) - Pier Head Segment - Temporary Platform | 6 | 13-May-15 | 0% | 6 | 19-May-15 | 20-Oct-15 | 27-Oct-15 | 118 | 88 | 0% |
| Pier D19 (D1b |) & Abutment D | | | | | | <u> </u> | | | | |
| Pile Cap Wo | rks | | | | | | | | | | |
| SD1B0092 | D19 (D1b) - Pile Breakdown to cut-off etc. | 7 | 02-Mar-15 A | 100% | 0 | 05-Mar-15 A | | | | | 100% |
| SD1B0110 | D19 (D1b) - Pile cap Formwork | 3 | 07-Mar-15 A | 100% | 0 | 10-Mar-15 A | | | | | 100% |
| SD1B0120 | D19 (D1b) - Pile cap Rebarwork | 7 | 17-Mar-15 A | 100% | 0 | 19-Mar-15 A | | | | | 100% |
| | D19 (D1b) - Pile cap Kicker Formwork | 3 | 23-Mar-15 | 0% | 3 | 25-Mar-15 | 19-Dec-15 | 22-Dec-15 | 204 | 3 | 0% |
| | D19 (D1b) - Pile cap Concreting | 1 | 21-Mar-15 | 0% | 1 | 21-Mar-15 | 15-Dec-15 | 15-Dec-15 | 201 | 0 | 0% |
| | D19 (D1b) - Pile cap Curing & Striking of Forms incl. CJ prep | 6 | 23-Mar-15 | 0% | 6 | 28-Mar-15 | 16-Dec-15 | 22-Dec-15 | 201 | 0 | 0% |
| Pier Works | | | | | | | | | | | |
| | D19 (D1b) - Pier/Pier Head Scaffolding | 4 | 30-Mar-15 | 0% | 4 | 02-Apr-15 | 23-Dec-15 | 29-Dec-15 | 201 | 0 | 0% |
| | D19 (D1b) - Pier/Pier Head Rebarwork | 6 | 08-Apr-15 | 0% | 6 | 14-Apr-15 | | 06-Jan-16 | 201 | 0 | 0% |
| | | | • | | _ | • | | • | | | |
| Actual Work | Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22 | Tuen Mun - C | - | | | | | Date | Revis | | Checked |
| Planned Bar Critical Bar | Filter: TASK filters: 3-Month Lookahead, No C | | | • | - | - | es) | 09-Mar-15 31-Mar-15 | | | B /Y |
| | Milestones, No Level of Effort. | (F | Progress as | of 21-N | lar-15 |) | | | | | • |



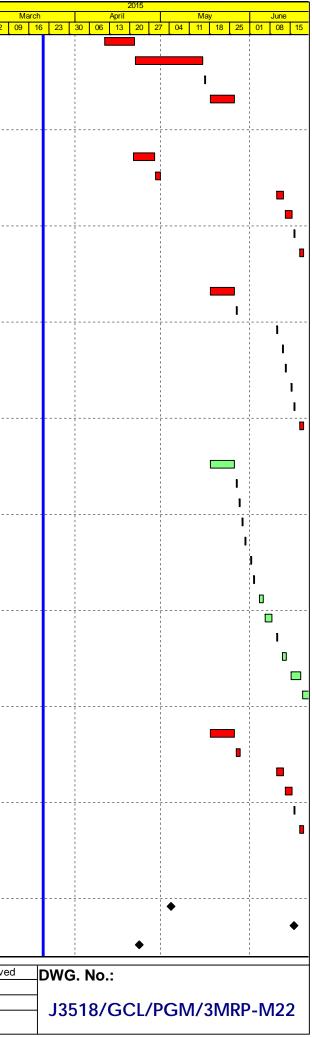
| Activity ID | Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|--------------|---|---|-------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|---------------------------------------|
| 00450470 | | lood Formwork | | 40 4 45 | | | | 07 1 10 | 4E lan 40 | 001 | | | 23 02 |
| | D19 (D1b) - Pier/Pier H | | 8 | 16-Apr-15 | 0% | 8 | 25-Apr-15 | 07-Jan-16 | 15-Jan-16 | 201 | 0 | 0% | |
| | D19 (D1b) - Pier/Pier H | | 1 | 27-Apr-15 | 0% | 1 | 27-Apr-15 | 16-Jan-16 | 16-Jan-16 | 201 | 0 | 0% | |
| | . , | Head Curing & Striking of Forms incl. CJ prep | 6 | 28-Apr-15 | 0% | 6 | 05-May-15 | 18-Jan-16 | 23-Jan-16 | 201 | 0 | 0% | |
| Pier Head Se | <u> </u> | Comment Terrescon Distance | 0 | 40 May 45 | 00/ | 6 | 40 May 45 | 05 lan 40 | 20. Jan 40 | 100 | 00 | 00/ | |
| | . , | Segment - Temporary Platform | 6 | 13-May-15 | 0% | 6 | 19-May-15 | 25-Jan-16 | 30-Jan-16 | 196 | 88 | 0% | |
| | Approach Ramp D Abutment D - Walls & | Steirease | 40 | 01 Mor 15 | 00/ | 40 | 07 May 15 | 17 Apr 15 | 04 km 45 | 10 | 4E | 00/ | |
| | | | 48 | 21-Mar-15 | 0% | 48 | 27-May-15 | 17-Apr-15 | 24-Jun-15 | 18 | 45 | 0% 0% | |
| | AR-D - RE Walls - Ere | ct MTR boundary fence, Excavation/formation/drainage filter & botto | om 24 | 23-May-15 | 0% | 24 | 29-Jun-15 | 17-Apr-15 | 18-May-15 | -27 | 0 | 0% | |
| Viaduct E | | | | | | | | | | | | | |
| Viaduct E1 | ling & Substructure | | | | | | | | | | | | |
| | ling & Substructure | | | | | | | | | | | | |
| | C & E1D (E1a1-2-3-4) | F1D | | | | | | | | | | | |
| | orks - E1A, E1B, E1C & | | | | | | | | | | | | |
| | orks - E1C/D (E1a2/E1 | | 6 | 21 Mor 15 | 09/ | 6 | 27 Mar 15 | 05-Jan-15 | 12 lon 15 | 62 | 0 | 0% | |
| | , , | Marine Pile Cap M1 - Inst.Floating Seal & Casing Head Steelwork | 6 | 21-Mar-15 | 0% | - | 27-Mar-15 | | 12-Jan-15 | -62 | 0 | 0% | |
| | , , , , , , , , , , , , , , , , , , , | Marine Pile Cap M1 - Install precast shell in position | 1 | 28-Mar-15 | 0% | 1 | 28-Mar-15 | 12-Jan-15 | 13-Jan-15 | -62 | 0 | 0% | |
| | , , , , , , , , , , , , , , , , , , , | Marine Pile Cap M1 - Inst. Access & make Watertight | 3 | 30-Mar-15 | 0% | 3 | 01-Apr-15 | 13-Jan-15 | 16-Jan-15 | -62 | 0 | 0% | |
| | , , , , , , , , , , , , , , , , , , , | Varine Pile Cap M1 - Weld Fin Plates/Plug Rebar & Concrete | 9 | 02-Apr-15 | 0% | 9 | 17-Apr-15 | 16-Jan-15 | 27-Jan-15 | -62 | 0 | 0% | |
| | , , , , , , , , , , , , , , , , , , , | Marine Pile Cap M1 - Dewater precast shell / Remove Lifting Frame | | 18-Apr-15 | 0% | 2 | 20-Apr-15 | 27-Jan-15 | 29-Jan-15 | -62 | 0 | 0% | |
| | , , , , , , , , , , , , , , , , , , , | Marine Pile Cap M1 - Pile cut down | 8 | 21-Apr-15 | 0% | 8 | 30-Apr-15 | 29-Jan-15 | 07-Feb-15 | -62 | 0 | 0% | |
| | , , , , , , , , , , , , , , , , , , , | Marine Pile Cap M1 - Rebar fixing, inst.inserts etc | 14 | 02-May-15 | 0% | 14 | 19-May-15 | 07-Feb-15 | 27-Feb-15 | -62 | 0 | 0% | |
| | , , , , , , , , , , , , , , , , , , , | Marine Pile Cap M1 - Concreting | 1 | 20-May-15 | 0% | 1 | 20-May-15 | 27-Feb-15 | 28-Feb-15 | -62 | 0 | 0% | |
| | , , | Marine Pile Cap M1 - Curing incl. CJ Preparation | 6 | 22-May-15 | 0% | 6 | 29-May-15 | 28-Feb-15 | 07-Mar-15 | -62 | 0 | 0% | |
| | E1A, E1B, E1C & E1D | | | | | | | | | | | | |
| | - E1A (E1a4) | | | 00 14 45 4 | 40.00/ | | | i | | | | 1000(| _ |
| | . , ,, | Pier Temp. Support Platform | 6 | 03-Mar-15 A | 100% | 0 | 11-Mar-15 A | | | | | 100% | · · · · · · · · · · · · · · · · · · · |
| | | Pier Scaffolding (1st Lift) | 1 | 12-Mar-15 A | 100% | 0 | 20-Mar-15 A | | | | | 100% | |
| | . , , | Pier Rebarwork (1st Lift) | 3 | 21-Mar-15 A | 0% | 7 | 28-Mar-15 | 17-Jan-15 | 26-Jan-15 | -51 | 0 | 60% | |
| | . , , | Pier Formwork & Prep for Concreting (1st Lift) | 3 | 30-Mar-15 | 0% | 3 | 01-Apr-15 | 26-Jan-15 | 29-Jan-15 | -51 | 0 | 0% | |
| | . , ,, | Pier Concreting (1st Lift) | 1 | 02-Apr-15 | 0% | 1 | 02-Apr-15 | 29-Jan-15 | 30-Jan-15 | -51 | 0 | 0% | |
| | . , , ,, | Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 08-Apr-15 | 0% | 2 | 09-Apr-15 | 30-Jan-15 | 02-Feb-15 | -51 | 0 | 0% | · |
| | E1A (E1a4) - Type 4B | | 4 | 10-Apr-15 | 0% | 4 | 14-Apr-15 | 02-Feb-15 | 06-Feb-15 | -51 | 0 | 0% | |
| | E1A (E1a4) - Type 4B | | 5 | 16-Apr-15 | 0% | 5 | 21-Apr-15 | 06-Feb-15 | 12-Feb-15 | -51 | 0 | 0% | |
| | . , | Pier Head Formwork & Prep for Concreting | 5 | 22-Apr-15 | 0% | 5 | 28-Apr-15 | 12-Feb-15 | 18-Feb-15 | -51 | 0 | 0% | |
| | E1A (E1a4) - Type 4B | . | 1 | 29-Apr-15 | 0% | 1 | 29-Apr-15 | 18-Feb-15 | 23-Feb-15 | -51 | 0 | 0% | |
| | . , | Pier Head Curing/Striking of Forms/Remove Scaffolding | 6 | 30-Apr-15 | 0% | 6 | 07-May-15 | 23-Feb-15 | 02-Mar-15 | -51 | 0 | 0% | |
| | - E1B (E1a3) | | 0 | 00 14-1 45 4 | 4000/ | 0 | 44 14-1 45 4 | í í | | | | 4000/ | _ |
| | . , | Pier Temp. Support Platform | 6 | 03-Mar-15 A | 100% | 0 | 11-Mar-15 A | | | | | 100% | _ |
| | . , , | Pier Scaffolding (1st Lift) | 1 | 22-Feb-15 A | 100% | 0 | 23-Feb-15 A | | | | | 100% | • |
| | . , , | Pier Rebarwork (1st Lift) | 2 | 25-Feb-15 A | 100% | 0 | 26-Feb-15 A | | | | | 100% | • |
| | . , , , | Pier Formwork & Prep for Concreting (1st Lift) | 2 | 27-Feb-15 A | 100% | 0 | 28-Feb-15 A | | | | | 100% | |
| | . , ,, | Pier Concreting (1st Lift) | 1 | 28-Feb-15 A | 100% | 0 | 28-Feb-15 A | | | | | 100% | Ľ |
| | , , , , | Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 02-Mar-15 A | 100% | 0 | 06-Mar-15 A | | | | | 100% | |
| | . , | Pier Scaffolding (2nd Lift) | 2 | 21-Mar-15 | 0% | 2 | 23-Mar-15 | 29-Apr-15 | 02-May-15 | 27 | 0 | 0% | |
| | | Pier Rebarwork (2nd Lift) | 3 | 24-Mar-15 | 0% | 3 | 26-Mar-15 | 02-May-15 | 06-May-15 | 27 | 0 | 0% | |
| | . , ,, | Pier Formwork & Prep for Concreting (2nd Lift) | 2 | 27-Mar-15 | 0% | 2 | 28-Mar-15 | 06-May-15 | 08-May-15 | 27 | 0 | 0% | |
| | . , | Pier Concreting (2nd Lift) | 1 | 30-Mar-15 | 0% | 1 | 30-Mar-15 | 08-May-15 | 09-May-15 | 27 | 0 | 0% | |
| SE1A3242 | E1B (E1a3) - Type 4B | Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 31-Mar-15 | 0% | 2 | 01-Apr-15 | 09-May-15 | 13-May-15 | 27 | 0 | 0% | 1 |
| Actual Work | | | uen Mun - C | hek Lap Kok l | _ink - Sou | thern (| Connection | | Date | Revis | sion 0 | Checked | Approve |
| Planned Bar | | Layout: J3518-DWP-3MRP Submission - M22_ 3-M | | ing Program | | | | es) | 09-Mar-15 | | D | | |
| Critical Bar | | Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort. | | Progress as | • | - | - | - | 31-Mar-15 | | W | Y | |
| Milestone | | | • | | | | | | | | | | |



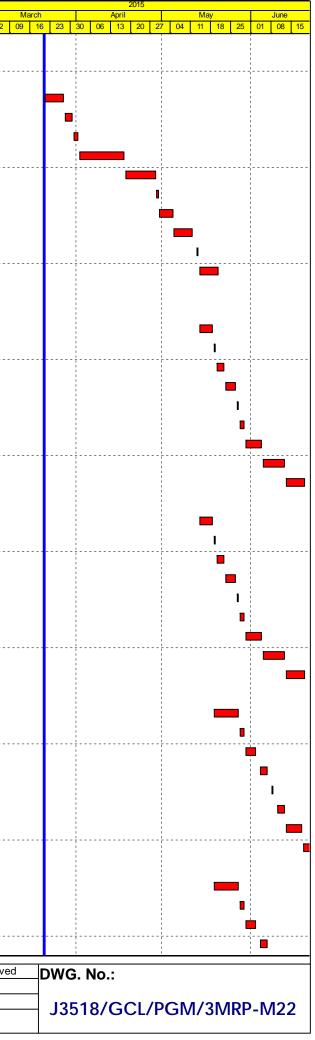
| ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|----|--|--------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|
| | SE1A3300 E1B (E1a3) - Type 4B Pier Head Scaffolding | 4 | 02-Apr-15 | 0% | 4 | 10-Apr-15 | 13-May-15 | 18-May-15 | 27 | 0 | 0% |
| | SE1A3310 E1B (E1a3) - Type 4B Pier Head Rebarwork | 5 | 11-Apr-15 | 0% | 5 | 17-Apr-15 | 18-May-15 | 26-May-15 | 27 | 0 | 0% |
| | SE1A3320 E1B (E1a3) - Type 4B Pier Head Formwork & Prep for Concreting | 5 | 18-Apr-15 | 0% | 5 | 24-Apr-15 | 26-May-15 | 01-Jun-15 | 27 | 0 | 0% |
| | SE1A3330 E1B (E1a3) - Type 4B Pier Head Concreting | 1 | 25-Apr-15 | 0% | 1 | 25-Apr-15 | 01-Jun-15 | 02-Jun-15 | 27 | 0 | 0% |
| | SE1A3340 E1B (E1a3) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding | 6 | 27-Apr-15 | 0% | 6 | 04-May-15 | 02-Jun-15 | 12-Jun-15 | 27 | 0 | 0% |
| | Pier Works - E1C (E1a2) | | | | | | | | | | |
| | SE1A2170 E1C (E1a2) - Type 4B Pier Temp. Support Platform | 6 | 22-May-15 | 0% | 6 | 29-May-15 | 07-Aug-15 | 15-Aug-15 | 55 | 0 | 0% |
| | SE1A2172 E1C (E1a2) - Type 4B Pier Scaffolding (1st Lift) | 1 | 30-May-15 | 0% | 1 | 30-May-15 | 15-Aug-15 | 17-Aug-15 | 55 | 0 | 0% |
| | SE1A2180 E1C (E1a2) - Type 4B Pier Rebarwork (1st Lift) | 2 | 01-Jun-15 | 0% | 2 | 02-Jun-15 | 17-Aug-15 | 19-Aug-15 | 55 | 0 | 0% |
| | SE1A2190 E1C (E1a2) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 04-Jun-15 | 0% | 2 | 05-Jun-15 | 19-Aug-15 | 22-Aug-15 | 55 | 0 | 0% |
| | SE1A2200 E1C (E1a2) - Type 4B Pier Concreting (1st Lift) | 1 | 06-Jun-15 | 0% | 1 | 06-Jun-15 | 22-Aug-15 | 24-Aug-15 | 55 | 0 | 0% |
| | SE1A2202 E1C (E1a2) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 08-Jun-15 | 0% | 2 | 10-Jun-15 | 24-Aug-15 | 28-Aug-15 | 57 | 0 | 0% |
| | SE1A2210 E1C (E1a2) - Type 4B Pier Scaffolding (2nd Lift) | 2 | 12-Jun-15 | 0% | 2 | 13-Jun-15 | 28-Aug-15 | 31-Aug-15 | 57 | 0 | 0% |
| | SE1A2220 E1C (E1a2) - Type 4B Pier Rebarwork (2nd Lift) | 3 | 15-Jun-15 | 0% | 3 | 18-Jun-15 | 31-Aug-15 | 03-Sep-15 | 57 | 0 | |
| | SE1A2230 E1C (E1a2) - Type 4B Pier Formwork & Prep for Concreting (2nd Lift) | 2 | 19-Jun-15 | 0% | 2 | 22-Jun-15 | 03-Sep-15 | 05-Sep-15 | 57 | 0 | 0% |
| | Pier Works - E1D (E1a1) | | | | | | | | | | |
| | SE1A1170 E1D (E1a1) - Type 4B Pier Temp. Support Platform | 6 | 22-May-15 | 0% | 6 | 29-May-15 | 28-Feb-15 | 07-Mar-15 | -62 | 0 | 0% |
| | SE1A1172 E1D (E1a1) - Type 4B Pier Scaffolding (1st Lift) | 1 | 30-May-15 | 0% | 1 | 30-May-15 | 07-Mar-15 | 09-Mar-15 | -62 | 0 | 0% |
| | SE1A1180 E1D (E1a1) - Type 4B Pier Rebarwork (1st Lift) | 2 | 01-Jun-15 | 0% | 2 | 02-Jun-15 | 09-Mar-15 | 11-Mar-15 | -62 | 0 | - 0% |
| | SE1A1190 E1D (E1a1) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 1 | 04-Jun-15 | 0% | 1 | 04-Jun-15 | 11-Mar-15 | 12-Mar-15 | -62 | 0 | 0% |
| | SE1A1200 E1D (E1a1) - Type 4B Pier Concreting (1st Lift) | 1 | 05-Jun-15 | 0% | 1 | 05-Jun-15 | 12-Mar-15 | 13-Mar-15 | -62 | 0 | 0% |
| | SE1A1202 E1D (E1a1) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 06-Jun-15 | 0% | 2 | 08-Jun-15 | 13-Mar-15 | 16-Mar-15 | -62 | 0 | 0% |
| | SE1A1210 E1D (E1a1) - Type 4B Pier Scaffolding (2nd Lift) | 2 | 10-Jun-15 | 0% | 2 | 12-Jun-15 | 16-Mar-15 | 18-Mar-15 | -62 | 0 | 0% |
| | SE1A1220 E1D (E1a1) - Type 4B Pier Rebarwork (2nd Lift) | 3 | 13-Jun-15 | 0% | 3 | 16-Jun-15 | 18-Mar-15 | 21-Mar-15 | -62 | 0 | 0% |
| | SE1A1230 E1D (E1a1) - Type 4B Pier Formwork & Prep for Concreting (2nd Lift) | 2 | 18-Jun-15 | 0% | 2 | 19-Jun-15 | 21-Mar-15 | 24-Mar-15 | -62 | 0 | 0% |
| - | Pier Head Segments - E1A, E1B, E1C & E1D | | | 0,0 | _ | | | 21.11.0.10 | | Ū | 0,0 |
| | Pier Head Segments - E1A (E1a4) | | | | | | | | | | |
| | SE1A4370 E1A (E1a4) - Pier Head Segment - Temporary Platform | 2 | 08-May-15 | 0% | 2 | 09-Mav-15 | 02-Mar-15 | 04-Mar-15 | -51 | 22 | 0% |
| | SE1A4372 E1A (E1a4) - Pier Head Segment Lift & Fix (1 seg) | 2 | 12-Jun-15 | 0% | 2 | , | 04-Mar-15 | 06-Mar-15 | -73 | 0 | |
| | SE1A4374 E1A (E1a4) - Pier Head Segment Diaphragm - Rebar | 12 | 15-Jun-15 | 0% | 12 | 03-Jul-15 | 06-Mar-15 | 20-Mar-15 | -72 | 0 | 0% |
| | Pier Head Segments - E1B (E1a3) | | | 070 | 12 | | | 20 Mai 10 | | Ŭ | 070 |
| | SE1A3370 E1B (E1a3) - Pier Head Segment - Temporary Platform | 2 | 05-May-15 | 0% | 2 | 06-May-15 | 12- lun-15 | 15-Jun-15 | 27 | 25 | 0% |
| | SE1A3372 E1B (E1a3) - Pier Head Segment Lift & Fix (1 seg) | 2 | 12-Jun-15 | 0% | 2 | 13-Jun-15 | 15-Jun-15 | 18-Jun-15 | 2 | 0 | 0% |
| | SE1A3374 E1B (E1a3) - Pier Head Segment Diaphragm - Rebar | 12 | 15-Jun-15 | 0% | 12 | 03-Jul-15 | 18-Jun-15 | 07-Jul-15 | 2 | 0 | |
| F | E2A, E2B, E2C & E2D (E1b1-2-3-4) | | | 070 | | | | | - | Ŭ | 070 |
| | Pile Cap Works - E2A, E2B, E2C & E2D | | | | | | | | | | |
| | Pile Cap Works - E2A (E1b4) | | | | | | | | | | |
| | SE1B4120 E2A (E1b4) - Marine Pile Cap M1 - Dewater precast shell / Remove Lifting Frame | 2 | 21-Mar-15 | 0% | 2 | 23-Mar-15 | 07-Jan-15 | 08-Jan-15 | -60 | 0 | 0% |
| | SE1B4130 E2A (E1b4) - Marine Pile Cap M1 - Pile cut down | 8 | 24-Mar-15 | 0% | 8 | 01-Apr-15 | 09-Jan-15 | 17-Jan-15 | -60 | 0 | 0% |
| | SE1B4140 E2A (E1b4) - Marine Pile Cap M1 - Rebar fixing, inst.inserts etc | 10 | 02-Apr-15 | 0% | 10 | 18-Apr-15 | 19-Jan-15 | 29-Jan-15 | -60 | 0 | 0% |
| | SE1B4150 E2A (E1b4) - Marine Pile Cap M1 - Concreting | 10 | 20-Apr-15 | 0% | 1 | 20-Apr-15 | 30-Jan-15 | 30-Jan-15 | -60 | 0 | 0% |
| - | SE1B4160 E2A (E1b4) - Marine Pile Cap M1 - Curing incl. CJ Preparation | 6 | 21-Apr-15 | 0% | 6 | 28-Apr-15 | 31-Jan-15 | 06-Feb-15 | -60 | 0 | 0% |
| | Pile Cap Works - E2B (E1b3) | 0 | 21-Apr-13 | 070 | 0 | 20-Api-13 | 51-5an-15 | 00-1 60-10 | -00 | U | 078 |
| | SE1B3070 E2B (E1b3) - Marine Pile Cap M1 - Inst.Floating Seal & Casing Head Steelwork | 6 | 03-Mar-15 A | 100% | 0 | 15-Mar-15 A | i | | | ĺ | 100% |
| | SE1B3070 E2B (E1b3) - Marine Pile Cap M1 - Install precast shell in position | 0 | 16-Mar-15 A | 100% | 0 | 16-Mar-15 A | | | | | 100% |
| | SE1B3080 E2B (E1b3) - Marine Pile Cap M1 - Install precast shell in position SE1B3090 E2B (E1b3) - Marine Pile Cap M1 - Inst.Access & make Watertight | 3 | 21-Mar-15 A | 0% | 3 | | 29-Dec-14 | 31-Dec-14 | -67 | 0 | 0% |
| | | | | | | | | | | - | |
| | SE1B3100 E2B (E1b3) - Marine Pile Cap M1 - Weld Fin Plates/Plug Rebar & Concrete | 9 | 25-Mar-15 | 0% | 9 | 08-Apr-15 | 02-Jan-15 | 12-Jan-15 | -67 | 0 | 0% |
| | SE1B3120 E2B (E1b3) - Marine Pile Cap M1 - Dewater precast shell / Remove Lifting Frame | 2 | 09-Apr-15 | 0% | 2 | 10-Apr-15 | 13-Jan-15 | 14-Jan-15 | -67 | 0 | 0% |
| | Actual Work Project ID: J3518DWPrE-M22 | Tuen Mun - C | hek Lap Kok I | Link - Sou | thern (| Connection | | Date | Revis | | Checked |
| | Planned Bar Layout: J3518-DWP-3MRP Submission - M22_ 3 | -Month Rolli | ng Program | me (Pa | ae 30 | of 41 Pag | les) | 09-Mar-15 | | D | В |
| | Critical Bar Filter: TASK filters: 3-Month Lookahead, No CC | | | | 90.00 | U TI Ug | ,00) | 31-Mar-15 | | W | |



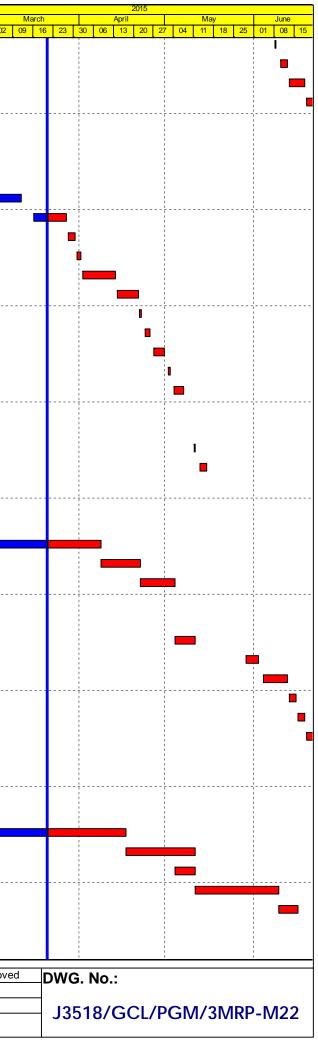
| | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complet | ete |
|---|--|---------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|-----------------------|--------|
| | SE1B3130 E2B (E1b3) - Marine Pile Cap M1 - Pile cut down | 8 | 11-Apr-15 | 0% | 8 | 21-Apr-15 | 15-Jan-15 | 23-Jan-15 | -67 | 0 | 0% | 2 % |
| | SE1B3140 E2B (E1b3) - Marine Pile Cap M1 - Rebar fixing, inst.inserts etc | 18 | 22-Apr-15 | 0% | 18 | 15-May-15 | 24-Jan-15 | 13-Feb-15 | -67 | 0 | 0% | |
| | SE1B3150 E2B (E1b3) - Marine Pile Cap M1 - Concreting | 1 | 16-May-15 | 0% | 1 | 16-May-15 | | 14-Feb-15 | -67 | 0 | 0% | |
| | SE1B3160 E2B (E1b3) - Marine Pile Cap M1 - Curing incl. CJ Preparation | 6 | 18-May-15 | 0% | 6 | 26-May-15 | | 25-Feb-15 | -67 | 0 | 0% | |
| | ier Works - E2A, E2B, E2C & E2D | 0 | | 070 | U | 20 May 10 | 101 00 10 | 2010010 | 01 | | 07 | |
| | Pier Works - E2A (E1b4) | | | | | | | | | | | |
| | SE1B4170 E2A (E1b4) - Type 4B Pier Temp. Support Platform | 6 | 21-Apr-15 | 0% | 6 | 28-Apr-15 | 31-Jan-15 | 06-Feb-15 | -60 | 0 | 0% | % |
| | SE1B4172 E2A (E1b4) - Type 4B Pier Scaffolding (1st Lift) | 2 | 29-Apr-15 | 0% | 2 | 30-Apr-15 | 07-Feb-15 | 09-Feb-15 | -60 | 28 | 0% | |
| | SE1B4180 E2A (E1b4) - Type 4B Pier Rebarwork (1st Lift) | 2 | 10-Jun-15 | 0% | 2 | 12-Jun-15 | 10-Feb-15 | 11-Feb-15 | -88 | 0 | 0% | |
| | SE1B4190 E2A (E1b4) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 13-Jun-15 | 0% | 2 | 15-Jun-15 | 12-Feb-15 | 13-Feb-15 | -88 | 0 | 0% | |
| | SE1B4200 E2A (E1b4) - Type 4B Pier Concreting (1st Lift) | 1 | 16-Jun-15 | 0% | 1 | 16-Jun-15 | 14-Feb-15 | 14-Feb-15 | -88 | 0 | 0% | |
| | SE1B4202 E2A (E1b4) - Type 4B Pier Curing & Striking of Forms ind. CJ prep (1st Lift) | 2 | 18-Jun-15 | 0% | 2 | 19-Jun-15 | 16-Feb-15 | 17-Feb-15 | -88 | 0 | 0% | |
| | Pier Works - E2B (E1b3) | 2 | 10-Juli-15 | 0 % | 2 | 19-Juli-15 | 10-Feb-13 | 17-Feb-15 | -00 | 0 | 07 | /0 |
| | SE1B3170 E2B (E1b3) - Type 4B Pier Temp. Support Platform | 6 | 18-May-15 | 0% | 6 | 26-May-15 | 20-Mar-15 | 27-Mar-15 | 42 | 0 | 0% | 0/. |
| | | 1 | | | 0 | | | | -42 | | | |
| | SE1B3172 E2B (E1b3) - Type 4B Pier Scaffolding (1st Lift) | | 27-May-15 | 0% | | 27-May-15 | | 28-Mar-15 | -42 | 9 | 0% | |
| | SE1B3180 E2B (E1b3) - Type 4B Pier Rebarwork (1st Lift) | 1 | 10-Jun-15 | 0% | 1 | 10-Jun-15 | 28-Mar-15 | 30-Mar-15 | -51 | 0 | 0% | |
| | SE1B3190 E2B (E1b3) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 1 | 12-Jun-15 | 0% | 1 | 12-Jun-15 | 30-Mar-15 | 31-Mar-15 | -51 | 0 | 0% | |
| | SE1B3200 E2B (E1b3) - Type 4B Pier Concreting (1st Lift) | 1 | 13-Jun-15 | 0% | 1 | 13-Jun-15 | 31-Mar-15 | 01-Apr-15 | -51 | 0 | 0% | |
| | SE1B3202 E2B (E1b3) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 1 | 15-Jun-15 | 0% | 1 | 15-Jun-15 | 01-Apr-15 | 02-Apr-15 | -51 | 0 | 0% | |
| | SE1B3210 E2B (E1b3) - Type 4B Pier Scaffolding (2nd Lift) | 1 | 16-Jun-15 | 0% | 1 | 16-Jun-15 | 02-Apr-15 | 08-Apr-15 | -51 | 0 | 0% | |
| | SE1B3220 E2B (E1b3) - Type 4B Pier Rebarwork (2nd Lift) | 2 | 18-Jun-15 | 0% | 2 | 19-Jun-15 | 08-Apr-15 | 10-Apr-15 | -51 | 0 | 0% | % |
| P | Pier Works - E2C (E1b1) | 1 | | | | | | | | | | |
| | SE1B1170 E2C (E1b1) - Type 4B Pier Temp. Support Platform | 6 | 18-May-15 | 0% | 6 | 26-May-15 | 22-Jul-15 | 31-Jul-15 | 47 | 0 | 0% | % |
| : | SE1B1172 E2C (E1b1) - Type 4B Pier Scaffolding (1st Lift) | 1 | 27-May-15 | 0% | 1 | 27-May-15 | 01-Aug-15 | 01-Aug-15 | 47 | 0 | 0% | % |
| : | SE1B1180 E2C (E1b1) - Type 4B Pier Rebarwork (1st Lift) | 1 | 28-May-15 | 0% | 1 | 28-May-15 | 03-Aug-15 | 03-Aug-15 | 47 | 0 | 0% | % |
| : | SE1B1190 E2C (E1b1) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 1 | 29-May-15 | 0% | 1 | 29-May-15 | 04-Aug-15 | 04-Aug-15 | 47 | 0 | 0% | % |
| : | SE1B1200 E2C (E1b1) - Type 4B Pier Concreting (1st Lift) | 1 | 30-May-15 | 0% | 1 | 30-May-15 | 05-Aug-15 | 05-Aug-15 | 47 | 0 | 0% | % |
| | SE1B1202 E2C (E1b1) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 1 | 01-Jun-15 | 0% | 1 | 01-Jun-15 | 06-Aug-15 | 06-Aug-15 | 47 | 0 | 0% | % |
| : | SE1B1212 E2C (E1b1) - Type 4B Pier Scaffolding (2nd Lift) | 1 | 02-Jun-15 | 0% | 1 | 02-Jun-15 | 07-Aug-15 | 07-Aug-15 | 47 | 0 | 0% | % |
| : | SE1B1220 E2C (E1b1) - Type 4B Pier Rebarwork (2nd Lift) | 2 | 04-Jun-15 | 0% | 2 | 05-Jun-15 | 08-Aug-15 | 10-Aug-15 | 47 | 0 | 0% | % |
| | SE1B1230 E2C (E1b1) - Type 4B Pier Formwork & Prep for Concreting (2nd Lift) | 2 | 06-Jun-15 | 0% | 2 | 08-Jun-15 | 12-Aug-15 | 13-Aug-15 | 47 | 0 | 0% | % |
| : | SE1B1240 E2C (E1b1) - Type 4B Pier Concreting (2nd Lift) | 1 | 10-Jun-15 | 0% | 1 | 10-Jun-15 | 14-Aug-15 | 14-Aug-15 | 47 | 0 | 0% | % |
| : | SE1B1242 E2C (E1b1) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift) | 2 | 12-Jun-15 | 0% | 2 | 13-Jun-15 | 15-Aug-15 | 17-Aug-15 | 47 | 0 | 0% | % |
| | SE1B1300 E2C (E1b1) - Type 4B Pier Head Scaffolding | 3 | 15-Jun-15 | 0% | 3 | 18-Jun-15 | 18-Aug-15 | 21-Aug-15 | 47 | 0 | 0% | % |
| | SE1B1310 E2C (E1b1) - Type 4B Pier Head Rebarwork | 5 | 19-Jun-15 | 0% | 5 | 27-Jun-15 | 22-Aug-15 | 27-Aug-15 | 47 | 0 | 0% | % |
| P | Pier Works - E2D (E1b2) | | | | | | | | | | | |
| | SE1B2170 E2D (E1b2) - Type 4B Pier Temp. Support Platform | 6 | 18-May-15 | 0% | 6 | 26-May-15 | 16-Feb-15 | 25-Feb-15 | -67 | 0 | 0% | % |
| : | SE1B2172 E2D (E1b2) - Type 4B Pier Scaffolding (1st Lift) | 2 | 27-May-15 | 0% | 2 | 28-May-15 | 26-Feb-15 | 27-Feb-15 | -67 | 8 | 0% | % |
| : | SE1B2180 E2D (E1b2) - Type 4B Pier Rebarwork (1st Lift) | 2 | 10-Jun-15 | 0% | 2 | 12-Jun-15 | 28-Feb-15 | 02-Mar-15 | -75 | 0 | 0% | % |
| | SE1B2190 E2D (E1b2) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 13-Jun-15 | 0% | 2 | 15-Jun-15 | 03-Mar-15 | 04-Mar-15 | -75 | 0 | 0% | % |
| | SE1B2200 E2D (E1b2) - Type 4B Pier Concreting (1st Lift) | 1 | 16-Jun-15 | 0% | 1 | 16-Jun-15 | 05-Mar-15 | 05-Mar-15 | -75 | 0 | 0% | % |
| | SE1B2202 E2D (E1b2) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 18-Jun-15 | 0% | 2 | 19-Jun-15 | 06-Mar-15 | 07-Mar-15 | -75 | 0 | 0% | |
| | Juct E2 | | | | | | | | | | | |
| | dge E2 - Piling & Substructure | | | | | | | | | | | |
| | lestones | | | | | | | | | | | |
| | FXX077-1 E5 (E2c) - Completion of piling works | 0 | | 0% | 0 | 04-May-15 | | 28-Mar-15 | -26 | 0 | 0% | |
| | FXX077-2 E6 (E2d) - Completion of piling works | 0 | | 0% | 0 | 16-Jun-15 | | 15-Jun-15 | -1 | 41 | 0% | |
| | FXX077-4 E8 (E2f) - Completion of piling works | 0 | | 0% | 0 | 23-Apr-15 | | 12-Jun-15 | 41 | 109 | 0% | |
| | | | | | _ | • | | | | 103 | | |
| A | Levent 12540 DW/D 2MDD Outeringing M00 | Tuen Mun - Cl | • | | | | | Date | Revis | | Checked | 1 |
| | Planned Bar Layout: J3518-DWP-3MRP Submission - M22_ 3- | Month Rollin | na Proaran | nme (Pa | ae 31 | of 41 Pag | ies) | 09-Mar-15 | | D | | |
| P | Critical Bar Filter: TASK filters: 3-Month Lookahead, No CC | | rogress as | • • | - | - | | 31-Mar-15 | 1 | IW | | |



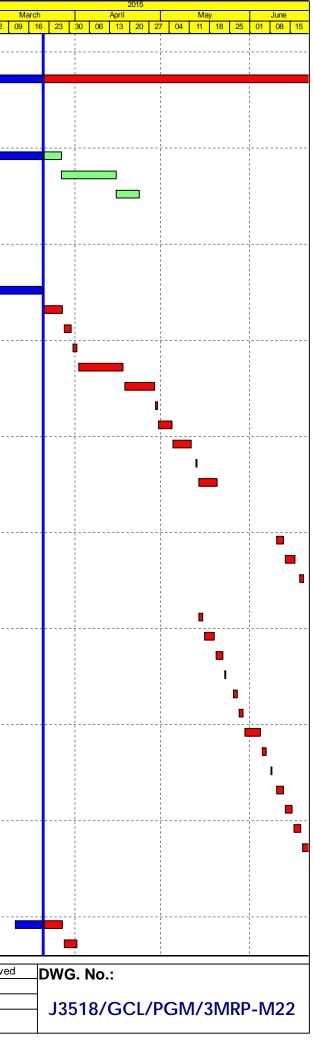
| 34 E2P | 3, E3C & E3D (E2a - 1/2/3/4) | | | | | | | | | | |
|-----------|---|--------------|------------|----------|--------|-----------|------------------------|------------------------|-------|-------------|----------|
| | p Works - E3A,E3B, E3C & E3D | | | | | | | | | | |
| | ap Works | | | | | | | | | | |
| _ | 1090 E3 (E2a1/2/3/4)- Marine Pile Cap - Inst.Access & make Watertight | 6 | 21-Mar-15 | 0% | 6 | 27-Mar-15 | 16-Dec-14 | 22-Dec-14 | -76 | 0 | 0 |
| | 1100 E3 (E2a1/2/3/4) - Marine Pile Cap - Weld Fin Plates / Plug Rebar & Concrete | 2 | 28-Mar-15 | 0% | 2 | 30-Mar-15 | | 22-Dec-14 24-Dec-14 | -76 | 0 | 0 |
| | 1110 E3 (E2a1/2/3/4)- Marine Pile Cap - Dewater precast shell / Remove Lifting Frame | 2 | 31-Mar-15 | 0% | 2 | 01-Apr-15 | | 29-Dec-14 | -76 | 0 | 0 |
| | 1120 E3 (E2a1/2/3/4)- Marine Pile Cap - Pile cut down 6nr | 9 | 02-Apr-15 | 0% | 9 | 17-Apr-15 | 30-Dec-14 | 09-Jan-15 | -76 | 0 | C |
| | 1130 E3 (E2a1/2/3/4)- Marine Pile Cap - Pile Cat down on 1130 E3 (E2a1/2/3/4)- Marine Pile Cap - Rebar fixing (1st pour) | 8 | 18-Apr-15 | 0% | 8 | 28-Apr-15 | 10-Jan-15 | 19-Jan-15 | -76 | 0 | 0 |
| | 1140 E3 (E2a1/2/3/4)- Marine Pile Cap - Concreting (First pour) | 1 | 29-Apr-15 | 0% | 1 | 29-Apr-15 | 20-Jan-15 | 20-Jan-15 | -76 | 0 | 0 |
| | | 3 | 30-Apr-15 | 0% | 3 | 04-May-15 | 20-Jan-15 21-Jan-15 | 20-Jan-15 23-Jan-15 | -76 | 0 | 0 |
| | 1150 E3 (E2a1/2/3/4)- Marine Pile Cap - CJ preparation | | · · · | | 6 | | | | | 0 | 0 |
| | 1160 E3 (E2a1/2/3/4)- Marine Pile Cap - Rebar fixing (Final pour) | 6 | 05-May-15 | 0% | 0 1 | 11-May-15 | 24-Jan-15 | 30-Jan-15 | -76 | 0 | |
| | 1162 E3 (E2a1/2/3/4)- Marine Pile Cap - Concreting (Final pour) | 1 | 13-May-15 | 0% | - | 13-May-15 | 31-Jan-15 | 31-Jan-15 | -76 | | |
| | 1164 E3 (E2a1/2/3/4)- Marine Pile Cap - Curing incl. CJ preparation | 6 | 14-May-15 | 0% | 6 | 20-May-15 | 02-Feb-15 | 07-Feb-15 | -76 | 0 | C |
| | orks - E3A,E3B, E3C & E3D | | | | | | | | | | |
| | orks - E3A (E2a4) | | | | | | | | | | |
| | 4170 E3A (E2a4) - Type 4B Pier Temp. Support Platform | 4 | 14-May-15 | 0% | 4 | 18-May-15 | | 07-Feb-15 | -74 | 0 | C |
| | 4172 E3A (E2a4) - Type 4B Pier Scaffolding (1st Lift) | 1 | 19-May-15 | 0% | 1 | 19-May-15 | | 09-Feb-15 | -74 | 0 | C |
| | 4180 E3A (E2a4) - Type 4B Pier Rebarwork (1st Lift) | 2 | 20-May-15 | 0% | 2 | 22-May-15 | | 11-Feb-15 | -74 | 0 | C |
| | 4190 E3A (E2a4) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 23-May-15 | 0% | 2 | 26-May-15 | 12-Feb-15 | 14-Feb-15 | -73 | 0 | 0 |
| | 4200 E3A (E2a4) - Type 4B Pier Concreting (1st Lift) | 1 | 27-May-15 | 0% | 1 | 27-May-15 | 16-Feb-15 | 16-Feb-15 | -73 | 0 | 0 |
| | 4202 E3A (E2a4) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 28-May-15 | 0% | 2 | 29-May-15 | 17-Feb-15 | 18-Feb-15 | -73 | 0 | C |
| | 4300 E3A (E2a4) - Type 4B Pier Head Scaffolding | 4 | 30-May-15 | 0% | 4 | 04-Jun-15 | 23-Feb-15 | 26-Feb-15 | -73 | 0 | C |
| SE2A4 | 4310 E3A (E2a4) - Type 4B Pier Head Rebarwork | 5 | 05-Jun-15 | 0% | 5 | 12-Jun-15 | 27-Feb-15 | 04-Mar-15 | -73 | 0 | 0 |
| SE2A4 | 4320 E3A (E2a4) - Type 4B Pier Head Formwork & Prep for Concreting | 5 | 13-Jun-15 | 0% | 5 | 19-Jun-15 | 05-Mar-15 | 10-Mar-15 | -73 | 0 | 0 |
| Pier Wo | orks - E3B (E2a3) | , | , | | | | | , | | , | |
| SE2A3 | 3170 E3B (E2a3) - Type 4B Pier Temp. Support Platform | 4 | 14-May-15 | 0% | 4 | 18-May-15 | 16-Feb-15 | 25-Feb-15 | -62 | 0 | C |
| SE2A3 | 3172 E3B (E2a3) - Type 4B Pier Scaffolding (1st Lift) | 1 | 19-May-15 | 0% | 1 | 19-May-15 | 26-Feb-15 | 26-Feb-15 | -62 | 0 | C |
| SE2A3 | 3180 E3B (E2a3) - Type 4B Pier Rebarwork (1st Lift) | 2 | 20-May-15 | 0% | 2 | 22-May-15 | 27-Feb-15 | 28-Feb-15 | -62 | 0 | C |
| SE2A3 | 3190 E3B (E2a3) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 2 | 23-May-15 | 0% | 2 | 26-May-15 | 02-Mar-15 | 04-Mar-15 | -61 | 0 | C |
| SE2A3 | 3200 E3B (E2a3) - Type 4B Pier Concreting (1st Lift) | 1 | 27-May-15 | 0% | 1 | 27-May-15 | 05-Mar-15 | 05-Mar-15 | -61 | 0 | C |
| SE2A3 | 3202 E3B (E2a3) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 28-May-15 | 0% | 2 | 29-May-15 | 06-Mar-15 | 07-Mar-15 | -61 | 0 | C |
| SE2A3 | 3300 E3B (E2a3) - Type 4B Pier Head Scaffolding | 4 | 30-May-15 | 0% | 4 | 04-Jun-15 | 09-Mar-15 | 12-Mar-15 | -61 | 0 | C |
| SE2A3 | 3310 E3B (E2a3) - Type 4B Pier Head Rebarwork | 5 | 05-Jun-15 | 0% | 5 | 12-Jun-15 | 13-Mar-15 | 19-Mar-15 | -60 | 0 | C |
| SE2A3 | 3320 E3B (E2a3) - Type 4B Pier Head Formwork & Prep for Concreting | 5 | 13-Jun-15 | 0% | 5 | 19-Jun-15 | 20-Mar-15 | 25-Mar-15 | -60 | 0 | C |
| Pier W | orks - E3C (E2a2) | 1 | , | , | | | | | , | | |
| SE2A2 | 2170 E3C (E2a2) - Type 4B Pier Temp. Support Platform | 6 | 19-May-15 | 0% | 6 | 27-May-15 | 27-Feb-15 | 10-Mar-15 | -57 | 0 | (|
| SE2A2 | 2172 E3C (E2a2) - Type 4B Pier Scaffolding (1st Lift) | 2 | 28-May-15 | 0% | 2 | 29-May-15 | 11-Mar-15 | 12-Mar-15 | -57 | 0 | 0 |
| SE2A2 | 2180 E3C (E2a2) - Type 4B Pier Rebarwork (1st Lift) | 3 | 30-May-15 | 0% | 3 | 02-Jun-15 | 13-Mar-15 | 16-Mar-15 | -57 | 0 | C |
| SE2A2 | 2190 E3C (E2a2) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 3 | 04-Jun-15 | 0% | 3 | 06-Jun-15 | 17-Mar-15 | 19-Mar-15 | -57 | 0 | C |
| SE2A2 | 2200 E3C (E2a2) - Type 4B Pier Concreting (1st Lift) | 1 | 08-Jun-15 | 0% | 1 | 08-Jun-15 | 20-Mar-15 | 20-Mar-15 | -57 | 0 | C |
| SE2A2 | 2202 E3C (E2a2) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 10-Jun-15 | 0% | 2 | 12-Jun-15 | 21-Mar-15 | 23-Mar-15 | -57 | 0 | C |
| SE2A2 | 2300 E3C (E2a2) - Type 4B Pier Head Scaffolding | 4 | 13-Jun-15 | 0% | 4 | 18-Jun-15 | 24-Mar-15 | 27-Mar-15 | -57 | 0 | C |
| SE2A2 | 2310 E3C (E2a2) - Type 4B Pier Head Rebarwork | 5 | 19-Jun-15 | 0% | 5 | 27-Jun-15 | 28-Mar-15 | 02-Apr-15 | -57 | 0 | C |
| Pier We | orks - E3D (E2a1) | | | | | | | | | | |
| SE2A | 1170 E3D (E2a1) - Type 4B Pier Temp. Support Platform | 6 | 19-May-15 | 0% | 6 | 27-May-15 | 18-Mar-15 | 26-Mar-15 | -43 | 0 | C |
| SE2A | 1172 E3D (E2a1) - Type 4B Pier Scaffolding (1st Lift) | 2 | 28-May-15 | 0% | 2 | 29-May-15 | 27-Mar-15 | 28-Mar-15 | -43 | 0 | C |
| | 1180 E3D (E2a1) - Type 4B Pier Rebarwork (1st Lift) | 3 | 30-May-15 | 0% | 3 | 02-Jun-15 | 30-Mar-15 | 01-Apr-15 | -43 | 0 | C |
| | 1190 E3D (E2a1) - Type 4B Pier Formwork & Prep for Concreting (1st Lift) | 3 | 04-Jun-15 | 0% | 3 | 06-Jun-15 | 02-Apr-15 | 09-Apr-15 | -43 | 0 | C |
| | | | | | | | · · | | | | |
| Actual Wo | Lawards 12540 DWD 2MBB Culturing M02 | Tuen Mun - C | • | | | |) | Date 09-Mar-15 | Revis | sion (D | Checked |
| Planned B | ar Filter: TASK filters: 3-Month Lookahead, No CO | Month Rolli | ng Program | nme (Pag | ge 32 | of 41 Pag | jes) | 09-Mar-15 31-Mar-15 | | | VY VY |



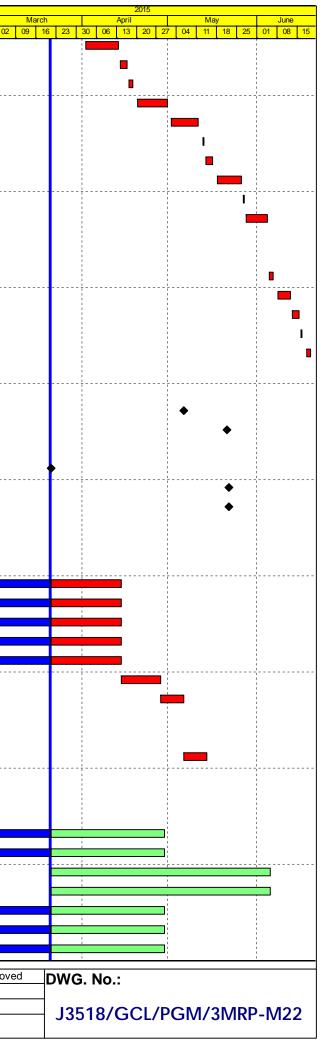
| Activity ID | | Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|-------------|-------------|-------------------------|---|----------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|--------|
| | | | | | Start | Complete | Dum. | | | | | | | 23 02 |
| S | SE2A1200 | E3D (E2a1) - Type 4B | Pier Concreting (1st Lift) | 1 | 08-Jun-15 | 0% | 1 | 08-Jun-15 | 10-Apr-15 | 10-Apr-15 | -43 | 0 | 0% | |
| S | SE2A1202 | E3D (E2a1) - Type 4B | Pier Curing & Striking of Forms incl. CJ prep (1st Lift) | 2 | 10-Jun-15 | 0% | 2 | 12-Jun-15 | 11-Apr-15 | 13-Apr-15 | -43 | 0 | 0% | |
| S | SE2A1300 | E3D (E2a1) - Type 4B | Pier Head Scaffolding | 4 | 13-Jun-15 | 0% | 4 | 18-Jun-15 | 14-Apr-15 | 18-Apr-15 | -43 | 0 | 0% | |
| S | SE2A1310 | E3D (E2a1) - Type 4B | Pier Head Rebarwork | 5 | 19-Jun-15 | 0% | 5 | 27-Jun-15 | 20-Apr-15 | 25-Apr-15 | -43 | 0 | 0% | |
| | & E4B (E | , | | | | | | | | | | | | |
| Pile | e Cap Wo | rks - E4A & E4B | | | | | | | | | | | | |
| | ile Cap Wo | | | | , | , | , | , | | | | | | |
| | | | Pile Cap - Inst.Floating Seal & Casing Head Steelwork | 6 | 06-Feb-15 A | 100% | 0 | 27-Feb-15 A | | | | | 100% | |
| | | . , | Pile Cap - Install precast shell in position (3 units) | 4 | 28-Feb-15 A | 100% | 0 | 12-Mar-15 A | | | | | 100% | |
| | | . , | Pile Cap - Inst.Access & make Watertight | 6 | 16-Mar-15 A | 0% | 6 | 27-Mar-15 | 20-Dec-14 | 30-Dec-14 | -72 | 0 | 50% | |
| | | . , | Pile Cap - Weld Fin Plates / Plug Rebar & Concrete | 2 | 28-Mar-15 | 0% | 2 | 30-Mar-15 | 30-Dec-14 | 02-Jan-15 | -72 | 0 | 0% | |
| | | . , | Pile Cap - Dewater precast shell / Remove Lifting Frame | 2 | 31-Mar-15 | 0% | 2 | 01-Apr-15 | 02-Jan-15 | 05-Jan-15 | -72 | 0 | 0% | |
| | | . , | Pile Cap - Pile cut down 4nr | 6 | 02-Apr-15 | 0% | 6 | 13-Apr-15 | 05-Jan-15 | 12-Jan-15 | -72 | 0 | 0% | |
| | | . , | Pile Cap - Rebar fixing (1st pour) | 6 | 14-Apr-15 | 0% | 6 | 21-Apr-15 | 12-Jan-15 | 19-Jan-15 | -72 | 0 | 0% | |
| | | . , | Pile Cap - Concreting (First pour) | 1 | 22-Apr-15 | 0% | 1 | 22-Apr-15 | 19-Jan-15 | 20-Jan-15 | -72 | 0 | 0% | |
| | | . , | Pile Cap - CJ preparation | 2 | 24-Apr-15 | 0% | 2 | 25-Apr-15 | 20-Jan-15 | 22-Jan-15 | -72 | 0 | 0% | |
| | | . , | Pile Cap - Rebar fixing (Final pour) | 4 | 27-Apr-15 | 0% | 4 | 30-Apr-15 | 22-Jan-15 | 27-Jan-15 | -72 | 0 | 0% | |
| | | . , | Pile Cap - Concreting (Final pour) | 1 | 02-May-15 | 0% | 1 | 02-May-15 | 27-Jan-15 | 28-Jan-15 | -72 | 0 | 0% | |
| S | SE2B0164 | E4 (E2b1/2) - Marine I | Pile Cap - Curing incl. CJ preparation | 4 | 04-May-15 | 0% | 4 | 07-May-15 | 28-Jan-15 | 02-Feb-15 | -72 | 2 | 0% | |
| Pie | er Works - | E4A & E4B | | | | | | | | | | | | |
| | | - E4A (E2b2) | | | , | , | , | ÷ | , | | ÷ | | | |
| | | . , , | Pier Falsework & Scaffolding (1st wall pour) | 1 | 11-May-15 | 0% | 1 | 11-May-15 | 02-Feb-15 | 03-Feb-15 | -74 | 0 | 0% | |
| S | SE2B2030 | E4A (E2b2) - Seagull P | Pier Rebar Fixing (1st wall pour) | 3 | 13-May-15 | 0% | 3 | 15-May-15 | 03-Feb-15 | 06-Feb-15 | -74 | 30 | 0% | |
| E5A | & E5B (E | 2c - 1/2) | | | | | | | | | | | | |
| | | Works - E5A & E5B | | | | | | | | | | | | |
| | oundation | | | | | , | | | | | | | | |
| | | E5 (E2c) - Bored Piles | · · · · | 74 | 02-Feb-15 A | 84% | 12 | · · | 14-Feb-15 | 04-Mar-15 | -26 | 0 | 84% | |
| | | E5 (E2c) - Sonic & Inte | | 12 | 08-Apr-15 | 0% | 12 | 22-Apr-15 | 04-Mar-15 | 18-Mar-15 | -26 | 0 | 0% | |
| | | . , | emporary Removable Piling Platform | 9 | 22-Apr-15 | 0% | 9 | 04-May-15 | 18-Mar-15 | 28-Mar-15 | -26 | 0 | 0% | |
| | | rks - E5A & E5B | | | | | | | | | | | | |
| | ile Cap Wo | | | | | · | · | | | | | | | |
| | | . , | Pile Cap - Inst.Floating Seal & Casing Head Steelwork | 6 | 04-May-15 | 0% | 6 | | 28-Mar-15 | 09-Apr-15 | -24 | 12 | 0% | |
| | | . , | Pile Cap - Install precast shell in position (3 units) | 4 | 29-May-15 | 0% | 4 | 02-Jun-15 | 09-Apr-15 | 14-Apr-15 | -37 | 0 | 0% | |
| | | . , | Pile Cap - Inst.Access & make Watertight | 6 | 04-Jun-15 | 0% | 6 | 12-Jun-15 | 14-Apr-15 | 22-Apr-15 | -37 | 0 | 0% | |
| | | . , | Pile Cap - Weld Fin Plates / Plug Rebar & Concrete | 2 | 13-Jun-15 | 0% | 2 | 15-Jun-15 | 22-Apr-15 | 25-Apr-15 | -37 | 0 | 0% | |
| | | . , | Pile Cap - Dewater precast shell / Remove Lifting Frame | 2 | 16-Jun-15 | 0% | 2 | 18-Jun-15 | 25-Apr-15 | 28-Apr-15 | -37 | 0 | 0% | |
| | | , , | Pile Cap - Pile cut down 4nr | 9 | 19-Jun-15 | 0% | 9 | 03-Jul-15 | 28-Apr-15 | 09-May-15 | -37 | 0 | 0% | |
| | & E6B (E | , | | | | | | | | | | | | |
| | | Works - E6A & E6B | | | | | | | | | | | | |
| | oundation | | | | | ; | | | ,, | | | | | |
| | | E6 (E2d) - Confirm Ro | | 8 | 14-Feb-15 A | 100% | 0 | 24-Feb-15 A | | | | | 100% | |
| | | E6 (E2d) - Bored Piles | | 72 | 24-Feb-15 A | 73% | 19 | · · | 20-Mar-15 | 16-Apr-15 | -1 | 0 | 73% | |
| | | E6 (E2d) - Sonic & Inte | - | 19 | 17-Apr-15 | 0% | 19 | 11-May-15 | 16-Apr-15 | 09-May-15 | -1 | 0 | 0% | |
| | | | bored pile for Full Depth Coring | 6 | 04-May-15 | 0% | 6 | 11-May-15 | 02-May-15 | 09-May-15 | -1 | 0 | 0% | |
| | | . , | Full Depth Coring & Testing | 24 | 11-May-15 | 0% | 24 | 09-Jun-15 | 09-May-15 | 08-Jun-15 | -1 | 0 | 0% | |
| | | . , | emporary Removable Piling Platform | 6 | 09-Jun-15 | 0% | 6 | 16-Jun-15 | 08-Jun-15 | 15-Jun-15 | -1 | 0 | 0% | |
| | & E7B (E | | | | | | | | | | | | | |
| Fo | undation | Works - E7A & E7B | | | | | | | | | | | | |
| Act | tual Work | | Project ID: J3518DWPrE-M22 | Tuen Mun - C | hek Lap Kok | _ink - Sou | thern (| Connection | | Date | Revi | sion (| Checked | Approv |
| | anned Bar | | Layout: J3518-DWP-3MRP Submission - M22_ | 3-Month Rollin | - | | | | es) | 09-Mar-15 | | D | | |
| | ritical Bar | | Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort. | | Progress as | • • | - | - | - | 31-Mar-15 | | M | Υ | |
| | ilestone | | | • | - | | | | | 1 | | | | |



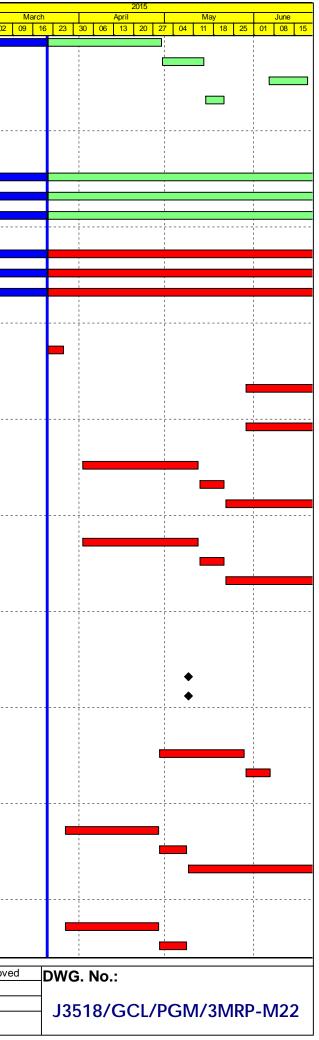
| | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|-----------------------|---|----------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|
| Foundatio | on Works | | | | | | | | | | |
| GFXX05 | E7 (E2e) - Relocation & Install, Temporary Removable Platform from E11 | to E7 6 | 18-Feb-15 A | 100% | 0 | 27-Feb-15 A | | | | | 100% |
| GFXX057 | E7 (E2e) - Bored Piles (2.50m dia. x 4 nr) | 78 | 10-Feb-15 A | 5% | 74 | 24-Jun-15 | 29-Nov-14 | 03-Mar-15 | -90 | 0 | 0% |
| E8A & E8B (| (E2f - 1/2) | | | | | 1 | | | | | |
| Foundation | n Works - E8A & E8B | | | | | | | | | | |
| Foundatio | on Works | | | | | | | | | | |
| GFXX062 | E8 (E2f) - Bored Piles (2.50m dia. x 4 nr) | 102 | 24-Dec-14 A | 95% | 5 | 27-Mar-15 | 14-May-15 | 20-May-15 | 41 | 0 | 40% |
| GFXX063 | B E8 (E2f) - Sonic & Interface Coring | 12 | 27-Mar-15 | 0% | 12 | 15-Apr-15 | 20-May-15 | 04-Jun-15 | 41 | 0 | 0% |
| GFXX064 | E8 (E2f) - Dismantle Temporary Removable Piling Platform | 7 | 15-Apr-15 | 0% | 7 | 23-Apr-15 | 04-Jun-15 | 12-Jun-15 | 41 | 0 | 0% |
| E9A & E9B (| (E2g - 1/2) | | , | | | 1 | | | | | |
| Pile Cap Wo | orks - E9A & E9B | | | | | | | | | | |
| Pile Cap W | Vorks | | | | | | | | | | |
| SE2G00 | E9 (E2g1/2) - Marine Pile Cap - Inst.Floating Seal & Casing Head Steelwo | ork 6 | 12-Feb-15 A | 100% | 0 | 02-Mar-15 A | | | | | 100% |
| SE2G008 | E9 (E2g1/2) - Marine Pile Cap - Install precast shell in position (3 units) | 4 | 03-Mar-15 A | 100% | 0 | 21-Mar-15 A | | | | | 100% |
| SE2G00 | E9 (E2g1/2) - Marine Pile Cap - Inst.Access & make Watertight | 6 | 21-Mar-15 | 0% | 6 | 27-Mar-15 | 19-Dec-14 | 29-Dec-14 | -72 | 0 | 0% |
| SE2G01(| E9 (E2g1/2) - Marine Pile Cap - Weld Fin Plates / Plug Rebar & Concrete | 2 | 28-Mar-15 | 0% | 2 | 30-Mar-15 | 29-Dec-14 | 31-Dec-14 | -72 | 0 | 0% |
| SE2G011 | E9 (E2g1/2) - Marine Pile Cap - Dewater precast shell / Remove Lifting Fi | rame 2 | 31-Mar-15 | 0% | 2 | 01-Apr-15 | 31-Dec-14 | 03-Jan-15 | -72 | 0 | 0% |
| SE2G012 | E9 (E2g1/2) - Marine Pile Cap - Pile cut down 6nr | 9 | 02-Apr-15 | 0% | 9 | 17-Apr-15 | 03-Jan-15 | 14-Jan-15 | -72 | 0 | 0% |
| SE2G01: | E9 (E2g1/2) - Marine Pile Cap - Rebar fixing (1st pour) | 8 | 18-Apr-15 | 0% | 8 | 28-Apr-15 | 14-Jan-15 | 23-Jan-15 | -72 | 0 | 0% |
| SE2G014 | E9 (E2g1/2) - Marine Pile Cap - Concreting (First pour) | 1 | 29-Apr-15 | 0% | 1 | 29-Apr-15 | 23-Jan-15 | 24-Jan-15 | -72 | 0 | 0% |
| SE2G01 | E9 (E2g1/2) - Marine Pile Cap - CJ preparation | 3 | 30-Apr-15 | 0% | 3 | 04-May-15 | 24-Jan-15 | 28-Jan-15 | -72 | 0 | 0% |
| SE2G01(| E9 (E2g1/2) - Marine Pile Cap - Rebar fixing (Final pour) | 6 | 05-May-15 | 0% | 6 | 11-May-15 | 28-Jan-15 | 04-Feb-15 | -72 | 0 | 0% |
| SE2G01(| E9 (E2g1/2) - Marine Pile Cap - Concreting (Final pour) | 1 | 13-May-15 | 0% | 1 | 13-May-15 | 04-Feb-15 | 05-Feb-15 | -72 | 0 | 0% |
| SE2G01(| E9 (E2g1/2) - Marine Pile Cap - Curing incl. CJ preparation | 6 | 14-May-15 | 0% | 6 | 20-May-15 | 05-Feb-15 | 12-Feb-15 | -72 | 0 | 0% |
| Pier Works | - E9A & E9B | | , | 1 | 1 | 1 | | | - | | |
| Pier Works | s - E9A (E2g2) | | | | | | | | | | |
| SE2G202 | E9A (E2g2) - Seagull Pier Falsework & Scaffolding (1st wall pour) | 2 | 10-Jun-15 | 0% | 2 | 12-Jun-15 | 11-May-15 | 14-May-15 | -20 | 0 | 0% |
| SE2G20(| E9A (E2g2) - Seagull Pier Rebar Fixing (1st wall pour) | 3 | 13-Jun-15 | 0% | 3 | 16-Jun-15 | 14-May-15 | 18-May-15 | -20 | 0 | 0% |
| SE2G204 | E9A (E2g2) - Seagull Pier Formwork & Prep. for concreting (1st wall pour) |) 2 | 18-Jun-15 | 0% | 2 | 19-Jun-15 | 18-May-15 | 20-May-15 | -20 | 0 | 0% |
| Pier Works | s - E9B (E2g1) | | | | 1 | | | | | | |
| SE2G102 | E9B (E2g1) - Seagull Pier Falsework & Scaffolding (1st wall pour) | 2 | 14-May-15 | 0% | 2 | 15-May-15 | 05-Feb-15 | 07-Feb-15 | -72 | 0 | 0% |
| SE2G10(| E9B (E2g1) - Seagull Pier Rebar Fixing (1st wall pour) | 3 | 16-May-15 | 0% | 3 | 19-May-15 | 07-Feb-15 | 11-Feb-15 | -72 | 0 | 0% |
| SE2G104 | E9B (E2g1) - Seagull Pier Formwork & Prep. for concreting (1st wall pour |) 2 | 20-May-15 | 0% | 2 | 22-May-15 | 11-Feb-15 | 13-Feb-15 | -72 | 0 | 0% |
| SE2G10(| E9B (E2g1) - Seagull Pier Concreting (1st wall pour) | 1 | 23-May-15 | 0% | 1 | 23-May-15 | 13-Feb-15 | 14-Feb-15 | -72 | 0 | 0% |
| SE2G106 | E9B (E2g1) - Seagull Pier Curing & Striking of Forms incl. CJ Prep. (1st w | vall pour) 2 | 26-May-15 | 0% | 2 | 27-May-15 | 14-Feb-15 | 17-Feb-15 | -72 | 0 | 0% |
| SE2G10 | E9B (E2g1) - Seagull Pier Falsework & Scaffolding (2nd wall pour) | 2 | 28-May-15 | 0% | 2 | 29-May-15 | 17-Feb-15 | 23-Feb-15 | -72 | 0 | 0% |
| SE2G108 | E9B (E2g1) - Seagull Pier Rebar Fixing (2nd wall pour) | 4 | 30-May-15 | 0% | 4 | 04-Jun-15 | 23-Feb-15 | 27-Feb-15 | -72 | 0 | 0% |
| SE2G10 | E9B (E2g1) - Seagull Pier Formwork & Prep. for concreting (2nd wall pou | r) 2 | 05-Jun-15 | 0% | 2 | 06-Jun-15 | 27-Feb-15 | 02-Mar-15 | -72 | 0 | 0% |
| SE2G11(| E9B (E2g1) - Seagull Pier Concreting (2nd wall pour) | 1 | 08-Jun-15 | 0% | 1 | 08-Jun-15 | 02-Mar-15 | 03-Mar-15 | -72 | 0 | 0% |
| SE2G111 | E9B (E2g1) - Seagull Pier Curing & Striking of Forms incl. CJ Prep. (2nd v | wall pour) 2 | 10-Jun-15 | 0% | 2 | 12-Jun-15 | 03-Mar-15 | 05-Mar-15 | -72 | 0 | 0% |
| SE2G112 | E9B (E2g1) - Seagull Pier Falsework & Scaffolding (diaphragm slab, 3rd p | oour) 2 | 13-Jun-15 | 0% | 2 | 15-Jun-15 | 05-Mar-15 | 07-Mar-15 | -72 | 0 | 0% |
| SE2G11: | E9B (E2g1) - Seagull Pier Soffit Formwork (diaphragm slab, 3rd pour) | 2 | 16-Jun-15 | 0% | 2 | 18-Jun-15 | 07-Mar-15 | 10-Mar-15 | -72 | 0 | 0% |
| SE2G114 | E9B (E2g1) - Seagull Pier Rebar Fixing (diaphragm slab, 3rd pour) | 3 | 19-Jun-15 | 0% | 3 | 24-Jun-15 | 10-Mar-15 | 13-Mar-15 | -72 | 0 | 0% |
| E10A & E10E | B (E2h - 1/2) | | | | | | | | | | |
| - | orks - E10A & E10B | | | | | | | | | | |
| Pile Cap W SE2H007 | Vorks E10 (E2h1/2) - Marine Pile Cap - Inst.Floating Seal & Casing Head Steelw | vork 6 | 11-Mar-15 A | 0% | 6 | 27-Mar-15 | 14-Mar-15 | 21-Mar-15 | -6 | 0 | 0% |
| | E10 (E2h1/2) - Marine Pile Cap - Install precast shell in position (3 units) | 4 | 28-Mar-15 | 0% | 4 | | 21-Mar-15 | 26-Mar-15 | -6 | 0 | 0% |
| A 1101 | Project ID: J3518DWPrE-M22 | Tuen Mun - Cl | hok I an Kok I | ink - Sour | thern C | onnaction | | Date | Revis | sion (| Checked |
| Actual Work | Layout: J3518-DWP-3MRP Submission - M22_ | 3-Month Rollin | - | | | | ies) | 09-Mar-15 | 1.000 | | |
| Planned Bar | Filter: TASK filters: 3-Month Lookahead, No CC | | | | | | | | | | |



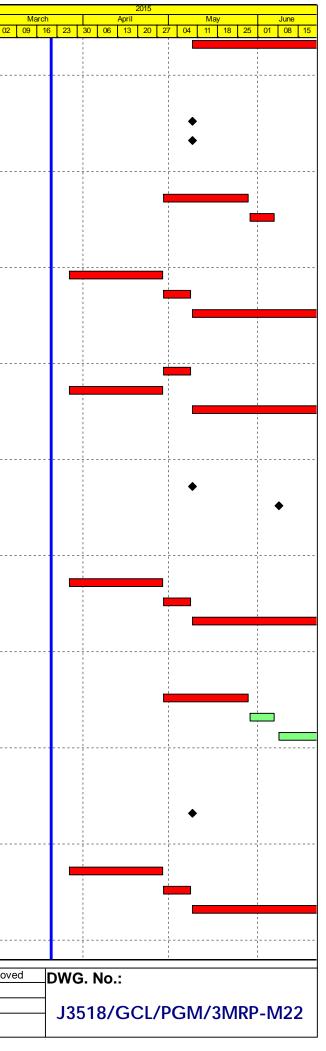
| | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | е |
|-----------------------------|---|-----------------|--------------------------------|------------------------|---------------|----------------------------------|------------|------------------------|-------------|------------|------------------------|--------|
| SEDHOOL | E10 (E2h1/2) - Marine Pile Cap - Inst.Access & make Watertight | 6 | 02-Apr-15 | 0% | 6 | 13-Apr-15 | 26-Mar-15 | 02-Apr-15 | -6 | 0 | 0% | |
| | | | 14-Apr-15 | 0% | 2 | | 02-Apr-15 | 02-Apr-15 | -0 -6 | 0 | 0% | |
| SE2H01(| E10 (E2h1/2) - Marine Pile Cap - Weid Fill Plates / Pilg Rebar & Cond E10 (E2h1/2) - Marine Pile Cap - Dewater precast shell / Remove Liftin | | · · | 0% | 2 | 16-Apr-15 | 02-Apr-15 | 11-Apr-15 | -0 | 0 | 0% | _ |
| SE2H011 SE2H012 | | 9 | 17-Apr-15 20-Apr-15 | 0% | 9 | 18-Apr-15 30-Apr-15 | 11-Apr-15 | 24-Apr-15 | -0 | 0 | 0% | · . |
| SE2H012 | | 8 | · · | 0% | 8 | • | 24-Apr-15 | • | -6 | 0 | 0% | _ |
| SE2H012 | | 0 1 | 02-May-15 13-May-15 | 0% | 0 | 11-May-15 13-May-15 | 05-May-15 | 05-May-15 06-May-15 | -0 | 0 | 0% | _ |
| SE2H012 | | 3 | 14-May-15 | 0% | 3 | 16-May-15 | 05-May-15 | 09-May-15 | -6 | 0 | 0% | _ |
| | E10 (E2h1/2) - Marine Pile Cap - C3 preparation E10 (E2h1/2) - Marine Pile Cap - Rebar fixing (Final pour) | 6 | 14-May-15 | 0% | 6 | 26-May-15 | 09-May-15 | 18-May-15 | -0 | 0 | 0% | _ |
| | E10 (E2h1/2) - Marine Pile Cap - Rebar Haing (Final pour) | - | , | | 1 | | | | | - | 0% | |
| | | 1 | 27-May-15 | 0% | | 27-May-15 | 18-May-15 | 19-May-15 | -6 | 0 | | _ |
| | E10 (E2h1/2) - Marine Pile Cap - Curing incl. CJ preparation | 6 | 28-May-15 | 0% | 6 | 04-Jun-15 | 19-May-15 | 28-May-15 | -6 | 0 | 0% | ر |
| | - E10A & E10B s - E10A (E2h2) | | | | | | | | | | | |
| | E10A (E2h2) - Seagull Pier Falsework & Scaffolding (1st wall pour) | 2 | 05-Jun-15 | 0% | 2 | 06-Jun-15 | 28-May-15 | 30-May-15 | -6 | 0 | 0% | , o |
| SE2H203 | | 3 | 08-Jun-15 | 0% | 3 | 12-Jun-15 | 30-May-15 | 04-Jun-15 | -6 | 0 | 0% | ó |
| SE2H204 | | | 13-Jun-15 | 0% | 2 | 15-Jun-15 | 04-Jun-15 | 06-Jun-15 | -6 | 0 | 0% | _ |
| SE2H205 | | 1 | 16-Jun-15 | 0% | 1 | 16-Jun-15 | 06-Jun-15 | 08-Jun-15 | -6 | 0 | 0% | _ |
| | E10A (E2h2) - Seagull Pier Curing & Striking of Forms incl. CJ Prep. (1s | st wall pour) 2 | 18-Jun-15 | 0% | 2 | 19-Jun-15 | 08-Jun-15 | 12-Jun-15 | -6 | 0 | 0% | _ |
| iaduct E5, E | | | | 0,0 | | | | | | | | |
| | Marine Foundation | | | | | | | | | | | |
| GFXX105 | Piling Works Completion of E5E6a/E7E8a in Bridge E5 - E8 | 0 | | 0% | 0 | 06-May-15 | 1 | 15-Jan-15 | -87 | 0 | 0% | , D |
| GFXX106 | Piling Works Completion of E5b/E6b, E7b/E8b, Dolphin E5b & E8b in Br | ridge E5 - E8 0 | | 0% | 0 | 21-May-15 | | 08-Jun-15 | 14 | 33 | 0% | b |
| Vilestones - | Land Foundation | | | | l | - | | | | | | |
| GFXX012 | Land Access to BCF (Available in Month 17) | 0 | 21-Mar-15 | 0% | 0 | | 01-Nov-14 | | -139 | 0 | 0% | , 0 |
| GFXX546-1 | E14D (E5d) - Start date for piling | 0 | 22-May-15 | 0% | 0 | | 02-May-15 | | -16 | 102 | 0% | , o |
| GFXX547-1 | E14C (E6d) - Start date for piling | 0 | 22-May-15 | 0% | 0 | | 13-Aug-15 | | 68 | 93 | 0% | ó |
| | (E5E6a/E7E8a) | | , | | | | - U | | | | | |
| | Works - E11A & E11B | | | | | | | | | | | |
| Foundation | n Works | | | | | | | | | | | |
| GFXX084 | E11 (E5E6a/E7E8a) - Bored Piles (2.5m dia. x 10 nr) | 130 | 10-Jul-14 A | 87% | 17 | 14-Apr-15 | 02-Dec-14 | 22-Dec-14 | -87 | 0 | 80% | 5 |
| GFXX084 | | 130 | 10-Jul-14 A | 87% | 17 | 14-Apr-15 | 02-Dec-14 | 22-Dec-14 | -87 | 0 | 80% | 5 |
| GFXX084 | E11 (E5E6a/E7E8a) - Bored Piles (2.5m dia. x 10 nr) 25% in total | 130 | 10-Jul-14 A | 87% | 17 | 14-Apr-15 | 02-Dec-14 | 22-Dec-14 | -87 | 0 | 80% | , 0 |
| GFXX084 | | 130 | 10-Jul-14 A | 87% | 17 | 14-Apr-15 | 02-Dec-14 | 22-Dec-14 | -87 | 0 | 80% | _ |
| GFXX084 | | 130 | 10-Jul-14 A | 87% | 17 | 14-Apr-15 | 02-Dec-14 | 22-Dec-14 | -87 | 0 | 80% | _ |
| GFXX085 | | 12 | 14-Apr-15 | 0% | 12 | 28-Apr-15 | 22-Dec-14 | 08-Jan-15 | -87 | 0 | 0% | _ |
| | E11 (E5E6a/E7E8a) - Dismantle Temporary Removable Piling Platform | | 28-Apr-15 | 0% | 6 | 06-May-15 | | 15-Jan-15 | -87 | 0 | 0% | _ |
| | rks - E11A & E11B | | | | | | | | | | | - |
| Pile Cap Wo | | | | | | | | | | | | |
| | E11 (E5E6/E7E8a) - Marine Pile Cap - Inst.Floating Seal & Casing Hear | d Steelwork 6 | 06-May-15 | 0% | 6 | 14-Mav-15 | 15-Jan-15 | 22-Jan-15 | -85 | 41 | 0% | ó |
| | E12C & E12D (E8b/E7b/E6b/E5b) | | | | | | | | | | | |
| | Works - E12 | | | | | | | | | | | |
| Foundation | n Works | | | | | | | | | | | |
| GFXX089 | E12 (E5b/E6b/E7b/E8b) - Bored Piles (2.5m dia. x 14 nr) | 151 | 09-Jul-14 A | 80.13% | 30 | 29-Apr-15 | 10-Apr-15 | 16-May-15 | 14 | 0 | 90% | b |
| GFXX089 | E12A & E12D (E5b, E8b) - Dolphins - Bored Piles (2.20m dia x 6 nr) | 60 | 01-Nov-14 A | 50% | 30 | 29-Apr-15 | 25-Nov-16 | 31-Dec-16 | 499 | 30 | 60% | , D |
| GFXX089 | E12A & E12D (E5b, E8b) - Dolphins - Bored Piles (2.20m dia x 6 nr) 50 | | 21-Mar-15 | 0% | 60 | 05-Jun-15 | 25-Nov-16 | 08-Feb-17 | 499 | 0 | 0% | , D |
| GFXX089 | | | 21-Mar-15 | 0% | 60 | 05-Jun-15 | 25-Nov-16 | 08-Feb-17 | 499 | 0 | 0% | Ď |
| GFXX089 | E12 (E5b/E6b/E7b/E8b) - Bored Piles (2.5m dia. x 14 nr) 25% in total | 151 | 09-Jul-14 A | 80.13% | 30 | 29-Apr-15 | 10-Apr-15 | 16-May-15 | 14 | 0 | 90% | _ |
| GFXX089 | | 151 | 09-Jul-14 A | 80.13% | 30 | 29-Apr-15 | 10-Apr-15 | 16-May-15 | 14 | 0 | 90% | _ |
| GFXX089 | | 151 | 09-Jul-14 A | 80.13% | 30 | 29-Apr-15 | 10-Apr-15 | 16-May-15 | 14 | 0 | 90% | _ |
| _ | | | hak Lan Kat | | 4h c == | • | | | | | booked | _ |
| Actual Work | Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22 | | hek Lap Kok | | | | | Date 09-Mar-15 | Revis | sion C | Checked | |
| - | | | | nma / n - | NA 75 | | 1001 | | | | | |
| Planned Bar Critical Bar | Filter: TASK filters: 3-Month Lookahead, No Co Milestones, No Level of Effort. | d 3-Wohth Kohi | ing Progran Progress as | • | - | - | jes) | 31-Mar-15 | | W | | |



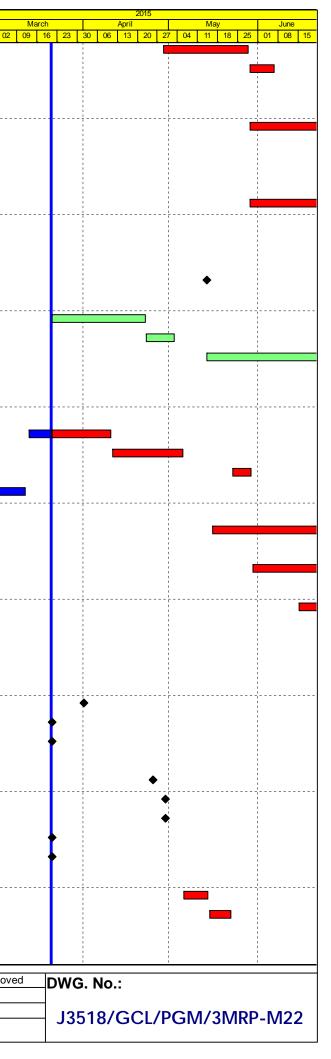
| tivity ID Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % |
|--|--|----------------|--------------------------------|------------------------|---------------|----------------------------------|-------------|-------------|-------------|------------|---------------|
| GFXX089 E12 (E5b/E6b/E7b/E8b |) - Bored Piles (2.5m dia. x 14 nr) 25% in total | 151 | 09-Jul-14 A | 80.13% | 30 | 29-Apr-15 | 10-Apr-15 | 16-May-15 | 14 | 0 | 90% |
| GFXX091 E12 (E5b/E6b/E7b/E8b | , , , , , , , , , , , , , , , , , , , | 12 | 30-Apr-15 | 0% | 12 | 14-May-15 | 16-May-15 | 01-Jun-15 | 14 | 0 | 0% |
| `````````````````````````````````````` | Dolphins only) - Sonic & Interface Coring | 12 | 06-Jun-15 | 0% | 12 | 19-Jun-15 | 09-Feb-17 | 22-Feb-17 | 499 | 0 | 0% |
| `````````````````````````````````````` |) - Dismantle Removable Piling Platform in Pier E12 | 6 | 15-May-15 | 0% | 6 | 21-May-15 | 01-Jun-15 | 08-Jun-15 | 14 | 0 | 0% |
| E13A, E13B, E13C & E13D (E8c/E7c/ | , 3 | | | | | , - | | | | | |
| Foundation Works - E13 | | | | | | | | | | | |
| Foundation Works - E13A (E8c) & | E13B (E7c) | | | | | | | | | | |
| GFXX101 E13A/B (E8c/E7c) - Bo | () | 172 | 27-Dec-14 A | 27.91% | 124 | 21-Aug-15 | 16-Jun-15 | 13-Nov-15 | 69 | 0 | 20% |
| | red Piles (2.5m dia. x 10 nr) 50% in total | 172 | 27-Dec-14 A | 27.91% | 124 | 21-Aug-15 | 16-Jun-15 | 13-Nov-15 | 69 | 0 | 20% |
| | red Piles (2.5m dia. x 10 nr) 50% in total | 172 | 27-Dec-14 A | 27.91% | 124 | 21-Aug-15 | 16-Jun-15 | 13-Nov-15 | 69 | 0 | 20% |
| Foundation Works - E13C (E6c) & | · · · · · · · · · · · · · · · · · · · | | | | | - 3 - | | | | | |
| GFXX095 E13C/D (E6c/E5c) - Bo | | 128 | 23-Aug-14 A | 39.06% | 78 | 27-Jun-15 | 24-Dec-14 | 01-Apr-15 | -68 | 0 | 40% |
| , , , , , , , , , , , , , , , , , , , | pred Piles (2.50m dia. x 10 nr) 50% in total | 128 | 23-Aug-14 A | 39.06% | 78 | 27-Jun-15 | 24-Dec-14 | 01-Apr-15 | -68 | 0 | 40% |
| | ored Piles (2.50m dia. x 10 nr) 50% in total | 128 | 23-Aug-14 A | 39.06% | 78 | 27-Jun-15 | | 01-Apr-15 | -68 | 0 | 40% |
| E14A, E14B, E14C & E14D (E8d/E7d | | | | 0010070 | | | 21 200 11 | 017.p. 10 | | • | |
| Foundation Works - E14 | | | | | | | | | | | |
| | ng Bored Pile Plant & Equipment for Viaducts in HKBCF | 5 | 21-Mar-15 | 0% | 5 | 26-Mar-15 | 01-Nov-14 | 07-Nov-14 | -113 | 0 | 0% |
| Foundation Works - E14A (E8d) | | | | 070 | Ű | 20 Mai 10 | | | 110 | | 0,0 |
| GFXX544 E14A (E8d) - Pre-drillin | a for Piles (4 nos) | 24 | 29-May-15 | 0% | 24 | 26-Jun-15 | 02-Apr-15 | 05-May-15 | -43 | 0 | 0% |
| Foundation Works - E14B (E7d) | | | 20 May 10 | 070 | 27 | 20 0011 10 | 02 / 10 | | -10 | Ū | 0,0 |
| GFXX544 E14B (E7d) - Pre-drillin | ng for Piles (3 nos) | 24 | 29-May-15 | 0% | 24 | 26-Jun-15 | 19-Mar-15 | 20-Apr-15 | -55 | 0 | 0% |
| Foundation Works - E14C (E6d) | | 27 | 23-Way-13 | 070 | 27 | 20-0011-10 | 10-10101-10 | 20-Api-13 | -00 | 0 | 070 |
| GFXX544 E14C (E6d) - Pre-drillir | pa for Piles (3 nos) | 30 | 02-Apr-15 | 0% | 30 | 12-May-15 | 17-Nov-14 | 20-Dec-14 | -111 | 0 | 0% |
| GFXX544 E14C (E6d) - Confirm | | 8 | 13-May-15 | 0% | 8 | 21-May-15 | | 02-Jan-15 | -111 | 0 | 0% |
| GFXX547 E14C (E6d) - Bored Pil | | 93 | 22-May-15 | 0% | 93 | 10-Sep-15 | | 29-Apr-15 | -111 | 0 | 0% |
| Foundation Works - E14D (E5d) | | 95 | 22-1viay-15 | 0 78 | 93 | 10-Sep-15 | 03-Jan-15 | 29-Api-15 | - 111 | 0 | 078 |
| GFXX544 E14D (E5d) - Pre-drillir | pa for Pilos (4 pos) | 30 | 02-Apr-15 | 0% | 30 | 12-May-15 | 07 Nov 14 | 12-Dec-14 | -118 | 0 | 0% |
| GFXX544 E14D (E5d) - Confirm | | 8 | 13-May-15 | 0% | 8 | 21-May-15 | 12-Dec-14 | 22-Dec-14 | -118 | 0 | 0% |
| GFXX546 E14D (E5d) - Bored Pi | | 102 | 22-May-15 | 0% | 102 | 21-May-15 21-Sep-15 | | 02-Mav-15 | -118 | 0 | 0% |
| Viaduct F | es (2.2011 uld. X 4 1105) | 102 | 22-1viay-15 | 0 78 | 102 | 21-3ep-13 | 22-Dec-14 | 02-1May-15 | -110 | 0 | 078 |
| Viaduct F1 | | | | | | | | | | | |
| General F1 | | | | | | | <u>.</u> | | <u></u> | | |
| Milestones | | | | | | | | | | | |
| GFXX553-8 F2 (F1c) - Start date fo | | 0 | 09-May-15 | 0% | 0 | | 17-Apr-15 | | -18 | 72 | 0% |
| GFXX553-9 F3 (F1d) - Start date fo | · • | 0 | 09-May-15 | 0% | 0 | | 12-Sep-15 | | 105 | 84 | 0% |
| F1 (F1b) | | 0 | 09-Way-15 | 078 | U | | 12-3ep-13 | | 105 | 04 | 078 |
| Foundation Works | | | | | | | | | | | |
| GFXX553-1 F1 (F1b) - Pre-drilling | for Pilos (2 pos) | 24 | 29-Apr-15 | 0% | 24 | 28-May-15 | 16-Feb-15 | 18-Mar-15 | -55 | 0 | 0% |
| GFXX553-4 F1 (F1b) - Confirm Ro | . , | 8 | 29-Apr-15 29-May-15 | 0% | 8 | 06-Jun-15 | | 04-May-15 | -28 | 60 | 0% |
| | | 0 | 29-1viay-15 | 0% | 0 | 06-Jun-15 | 24-Apt-15 | 04-1May-15 | -20 | 60 | 0% |
| F2 (F1c) | | | | | | | | | | | |
| Foundation Works | or Piles (2 noc) | 24 | 27 Mar 15 | 00/ | 24 | 28. Apr 15 | 05-Dec 14 | 05 lop 15 | 00 | 0 | 00/ |
| GFXX553-2 F2 (F1c) - Pre-drilling f | | 24 | 27-Mar-15 | 0% | 24 | 28-Apr-15 | 05-Dec-14 | 05-Jan-15 | -90 | 0 | 0% |
| GFXX553-5 F2 (F1c) - Confirm Roo | | 8 | 29-Apr-15 | 0% | 8 | 08-May-15 | 06-Jan-15 | 14-Jan-15 | -90 | 0 | 0% |
| GFXX556 F2 (F1c) - Bored Piles | (2.2011 UIA. X 2 1105) | 72 | 09-May-15 | 0% | 72 | 04-Aug-15 | 15-Jan-15 | 16-Apr-15 | -90 | 0 | 0% |
| F3 (F1d) | | | | | | | | | | | |
| Foundation Works | | 04 | 07 Mar 45 | 00/ | 0.4 | 20 Apr 15 | 08 Dec 11 | 07 100 15 | 00 | 0 | 00/ |
| GFXX553-3 F3 (F1d) - Pre-drilling f | | 24 | 27-Mar-15 | 0% | 24 | 28-Apr-15 | 08-Dec-14 | 07-Jan-15 | -88 | 0 | 0% |
| GFXX553-6 F3 (F1d) - Confirm Ro | | 8 | 29-Apr-15 | 0% | 8 | 08-May-15 | 08-Jan-15 | 16-Jan-15 | -88 | 0 | 0% |
| Actual Work | Project ID: J3518DWPrE-M22 | Tuen Mun - Cl | hek Lap Kok I | Link - Sou | thern C | onnection | | Date | Revis | | Checked Appro |
| Planned Bar | Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CO | 3-Month Rollin | ng Progran | nme (Pag | ge 36 | of 41 Pag | es) | 09-Mar-15 | | D | |
| Critical Bar Milestone | Milestones, No Level of Effort. | | Progress as | | | | | 31-Mar-15 | | W | Y |
| | | - | | | | | | | | | |



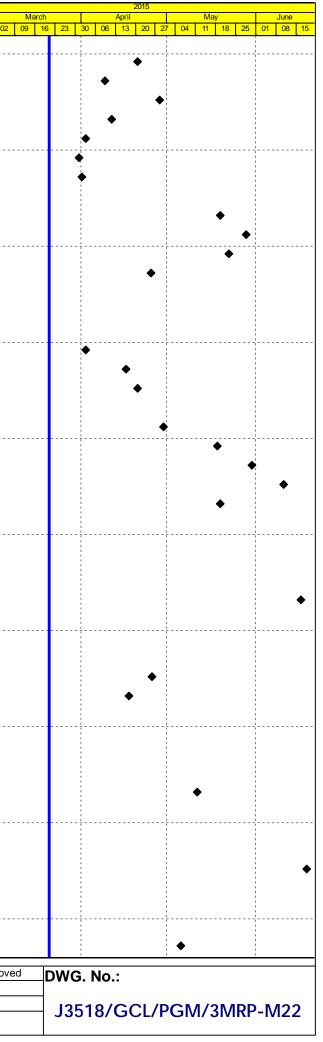
| Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|---------------------------------|---|---------------------------------------|--------------------------------|------------------------|---------------|---|------------|-------------|-------------|------------|------------------------|
| GFXX557 F3 (F1d) - Bored P | les (2.20m dia. x 2 nos) | 84 | 09-May-15 | 0% | 84 | 18-Aug-15 | 17-Jan-15 | 04-May-15 | -88 | 0 | 0% |
| iaduct F2 | | | | | 1 | | | | | | |
| General F2 | | | | | | | | | | | |
| Milestones | | | | | | | | | | | |
| GFXX561- F6 (F2d) - Start dat | e for piling | 0 | 09-May-15 | 0% | 0 | | 04-Jul-15 | | 45 | 72 | 0% |
| GFXX561-9 F5 (F2c) - Start dat | e for piling | 0 | 09-May-15 | 0% | 0 | | 08-Jul-15 | | 48 | 72 | 0% |
| F4 (F2b) | | | | | | | | | | | |
| Foundation Works | | | | | | | | | | | |
| GFXX561-1 F4 (F2b) - Pre-drilli | ng for piles (2 nos) | 24 | 29-Apr-15 | 0% | 24 | 28-May-15 | 02-Mar-15 | 28-Mar-15 | -46 | 0 | 0% |
| GFXX561-6 F4 (F2b) - Confirm | Rockhead Levels | 8 | 29-May-15 | 0% | 8 | 06-Jun-15 | 30-Mar-15 | 11-Apr-15 | -46 | 48 | 0% |
| F5 (F2c) | | | | | | | | | | | |
| Foundation Works | | | | | | | | | | | |
| GFXX561-2 F5 (F2c) - Pre-drilli | ig for Piles (2 nos) | 24 | 27-Mar-15 | 0% | 24 | 28-Apr-15 | 01-Dec-14 | 30-Dec-14 | -94 | 0 | 0% |
| GFXX561-8 F5 (F2c) - Confirm | Rockhead Levels | 8 | 29-Apr-15 | 0% | 8 | 08-May-15 | 31-Dec-14 | 09-Jan-15 | -94 | 0 | 0% |
| GFXX564 F5 (F2c) - Bored Pi | es (2.20m dia. x 2 nos) | 72 | 09-May-15 | 0% | 72 | 04-Aug-15 | 10-Jan-15 | 11-Apr-15 | -94 | 0 | 0% |
| F6 (F2d) | | · · · · · · · · · · · · · · · · · · · | , | | 1 | | | | | | |
| Foundation Works | | | | | | | | | | | |
| GFXX561- F6 (F2d) - Confirm | Rockhead Levels | 8 | 29-Apr-15 | 0% | 8 | 08-May-15 | 02-Feb-15 | 10-Feb-15 | -67 | 0 | 0% |
| GFXX561-3 F6 (F2d) - Pre-drilli | ng for Piles (2 nos) | 24 | 27-Mar-15 | 0% | 24 | 28-Apr-15 | 05-Jan-15 | 31-Jan-15 | -67 | 0 | 0% |
| GFXX565 F6 (F2d) - Bored P | les (2.20m dia. x 2 nos) | 72 | 09-May-15 | 0% | 72 | 04-Aug-15 | 11-Feb-15 | 14-May-15 | -67 | 0 | 0% |
| iaduct F3 | | | 1 | | | | | | | | 1 |
| General F3 | | | | | | | | | | | |
| Milestones | | | | | | | | | | | |
| GFXX571-6 F9 (F3d) - Start dat | e for piling | 0 | 09-May-15 | 0% | 0 | | 14-Jul-15 | | 53 | 84 | 0% |
| GFXX571-8 F10 (F3c) - Start da | te for piling | 0 | 08-Jun-15 | 0% | 0 | | 15-Sep-15 | | 83 | 72 | 0% |
| F9 (F3d-1/F3d-2) | | | 1 | | | | | | | | 1 |
| Foundation Works - F9 (F3d-1/ | -3d-2) | | | | | | | | | | |
| Foundation Works | | | | | | | | | | | |
| GFXX571 F9 (F3d) - Pre-drilli | ng for Piles (4 nos) | 24 | 27-Mar-15 | 0% | 24 | 28-Apr-15 | 14-Jan-15 | 11-Feb-15 | -59 | 0 | 0% |
| GFXX571 F9 (F3d) - Confirm | Rockhead Levels | 8 | 29-Apr-15 | 0% | 8 | 08-May-15 | 11-Feb-15 | 24-Feb-15 | -59 | 0 | 0% |
| GFXX575 F9 (F3d) - Bored P | les (2.20m dia. x 4 nos) | 84 | 09-May-15 | 0% | 84 | 18-Aug-15 | 24-Feb-15 | 09-Jun-15 | -59 | 0 | 0% |
| F10 (F3c-1/F3c-2) | | | , | 1 | | | | | | | |
| Foundation Works - Pier F10 | | | | | | | | | | | |
| Foundation Works | | | | | | | | | | | |
| GFXX571 F10 (F3c) - Pre-dril | ing for Piles (4 nos) | 24 | 29-Apr-15 | 0% | 24 | 28-May-15 | 05-Mar-15 | 01-Apr-15 | -43 | 0 | 0% |
| GFXX571 F10 (F3c) - Confirm | Rockhead Levels | 8 | 29-May-15 | 0% | 8 | 06-Jun-15 | 11-Jun-15 | 19-Jun-15 | 11 | 0 | 0% |
| GFXX574 F10 (F3c) - Bored | Piles (2.20m dia. x 4 nos) | 72 | 08-Jun-15 | 0% | 72 | 01-Sep-15 | 22-Jun-15 | 14-Sep-15 | 11 | 0 | 0% |
| iaduct F5 | | | | | | | | | 1 | | |
| General F5 | | | | | | | | | | | |
| Milestones | | | | | | | | | | | |
| GFXX586-5 F13 (F5d) - Start da | ite for piling | 0 | 09-May-15 | 0% | 0 | | 08-Dec-15 | | 176 | 84 | 0% |
| F13 (F5d) | | | , | 1 | | 1 | .// | | | | |
| Foundation Works | | | | | | | | | | | |
| GFXX586-1 F13 (F5d) - Pre-dri | ing for Piles (3 nos) | 24 | 27-Mar-15 | 0% | 24 | 28-Apr-15 | 16-Jan-15 | 12-Feb-15 | -57 | 0 | 0% |
| GFXX586-4 F13 (F5d) - Confirm | Rockhead Levels | 8 | 29-Apr-15 | 0% | 8 | 08-May-15 | 13-Feb-15 | 25-Feb-15 | -57 | 0 | 0% |
| GFXX589 F13 (F5d) - Bored I | Piles (2.20m dia. x 3 nos) | 84 | 09-May-15 | 0% | 84 | 18-Aug-15 | 26-Feb-15 | 10-Jun-15 | -57 | 0 | 0% |
| F14 (F5c) | | | | | | I | · | | | | |
| Foundation Works | | | | | | | | | | | |
| Actual Work | Project ID: J3518DWPrE-M22 | Tuen Mun - Cl | - | | | | | Date | Revis | | Checked |
| Planned Bar | Layout: J3518-DWP-3MRP Submission - M22 | | na Proaran | nme (Pa | ae 37 | of 41 Pag | ies) | 09-Mar-15 | | 0 | ЪВ |
| Critical Bar | Filter: TASK filters: 3-Month Lookahead, No C | 0 | | | 3 | ••••••••••••••••••••••••••••••••••••••• | ,, | 31-Mar-15 | | | NY |



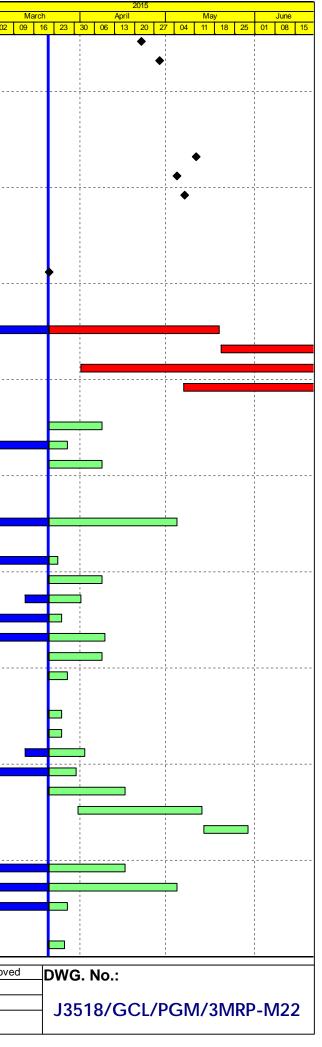
| Activity ID |) | Activity Name | | Orig. Durn. | Act. Start / FC Early | Duration % | Rem. | Act. Finish / FC | Late Start | Late Finish | Total Float | Free Float | Physical % | 1 |
|-------------|----------------------------|---|--|---------------|-----------------------|------------|-----------|------------------|---|-------------|-------------|------------|------------|----------|
| | | | | | Start | Complete | Durn. | Early Finish | | | | | Complete | 23 02 |
| | GFXX586-2 | F14 (F5c) - Pre-drilling | for Piles (2 nos) | 24 | 29-Apr-15 | 0% | 24 | 28-May-15 | 31-Mar-15 | 02-May-15 | -21 | 0 | 0% | |
| | GFXX586-6 | F14 (F5c) - Confirm Ro | ockhead Levels | 8 | 29-May-15 | 0% | 8 | 06-Jun-15 | 06-May-15 | 14-May-15 | -19 | 48 | 0% | |
| | F15 (F5b) | | | | | | | | | • | | | | |
| | Foundation | Works | | | | | | | | | | | | |
| | GFXX586-3 | F15 (F5b) - Pre-drilling | for Piles (2 nos) | 24 | 29-May-15 | 0% | 24 | 26-Jun-15 | 30-Apr-15 | 30-May-15 | -23 | 0 | 0% | 4 |
| | Viaduct F4 | - (· · ·) | | | , - | | | | | | | | | |
| | F16 (F4a/F5a) |) | | | | <u>.</u> | | | <u>.</u> | | <u></u> | | | |
| | Foundation | · | | | | | | | | | | | | |
| | | F16 (F4a/F5a) - Pre-dr | illing for Piles (4 nos) | 24 | 29-May-15 | 0% | 24 | 26-Jun-15 | 04-May-15 | 01-Jun-15 | -21 | 0 | 0% | 4 |
| | Approach Ra | | | 27 | 23-Way-13 | 070 | 27 | 20-5011-15 | 04 Iviay 10 | 01-5011-15 | -21 | 0 | 070 | |
| | | mp F | | | | | | | | | | | | |
| | Milestones | | | | | | | | | | | | | |
| | | AD E Stort data for pi | ling | 0 | 14 May 15 | 00/ | 0 | | 10 Jul 15 | | 50 | 47 | 00/ | 4 |
| | | AR-F - Start date for pi | ing | 0 | 14-May-15 | 0% | 0 | | 12-Jul-15 | | 59 | 47 | 0% | |
| | | amp F Piling | | | 04 NA 45 | 00/ | 0.4 | 00.4.45 | 44.4.45 | 10.14 15 | 10 | | 001 | · |
| | | AR-F - Pre-drilling for F | . , | 24 | 21-Mar-15 | 0% | 24 | 22-Apr-15 | 14-Apr-15 | 12-May-15 | 16 | 0 | 0% | _ |
| | GFXX594 | AR-F - Confirm Rockhe | | 8 | 23-Apr-15 | 0% | 8 | 02-May-15 | 13-May-15 | 21-May-15 | 16 | 9 | 0% | _ |
| | GFXX595 | AR-F - Bored Piles (28 | nos.) | 218 | 14-May-15 | 0% | 218 | 02-Feb-16 | 22-May-15 | 13-Feb-16 | 7 | 0 | 0% | |
| S | SUPERSTRU | CTURE | | | | | | | | | | | | |
| | Assembling, | relocation and dis | mantle of lifting equipment | | | | | | | | | | | |
| | Launching Ga | antry 1 | | | | | | | | | | | | |
| | NS11170 | Assembly of Launching | Gantry LG1 onto Pier B1/B2 (incl.Load Test) | 19 | 13-Mar-15 A | 26.32% | 14 | 10-Apr-15 | 15-Dec-14 | 03-Jan-15 | -77 | 0 | 0% | |
| | NS11180 | Viaduct B3 - Learning C | Curve Gantry LG1 | 20 | 11-Apr-15 | 0% | 20 | 05-May-15 | 03-Jan-15 | 27-Jan-15 | -77 | 0 | 0% | |
| | NS11210 | Viaduct B3 - Launching | LG1 Over Piers to B07 (B2f) - LG1 | 5 | 23-May-15 | 0% | 5 | 29-May-15 | 11-Feb-15 | 17-Feb-15 | -79 | 0 | 0% | |
| | PR20130 | Assembly of Launching | Gantry LG1 on Temp.Loading Platform | 36 | 15-Sep-14 A | 100% | 0 | 12-Mar-15 A | | | | | 100% | |
| | Launching Ga | antry 2 | | | | 1 | | | <u>, </u> | | | | | |
| | FR000099 | Assembly of Launching | Gantry LG2 on Temp.Loading Platform | 30 | 16-May-15 | 0% | 30 | 22-Jun-15 | 20-Jan-15 | 26-Feb-15 | -92 | 1 | 0% | |
| | Adjustable Li | fting Frame 1&2 | | | | | | | | | | | | |
| | NS10140 | Viaduct B3 - Pier B4 - A | ssemble / Load Test Lifting Frame ALF 1/2 | 25 | 30-May-15 | 0% | 25 | 29-Jun-15 | 17-Feb-15 | 21-Mar-15 | -79 | 0 | 0% | 1 |
| | Wide Lifting F | Frame 3&4 | - | | | | | | | | | | | |
| | NS10520 | | Assemble / Load Test Lifting Frame WLF 3/4 | 25 | 15-Jun-15* | 0% | 25 | 15-Jul-15 | 31-Mar-15 | 05-May-15 | -59 | 0 | 0% | 4 |
| . . | Viaduct B Su | Iperstructure | Ŭ | | | <u> </u> | | | | , | | | | |
| | Bridge B3 Su | · | | | | | | | | | | | | |
| | Milestones | | | | | | | | | | | | | |
| | | Ready for PH Segment | Frection | | | | | | | | | | | |
| | | | Viaduct B3 PH segment erection | 0 | | 0% | 0 | 01-Apr-15 | | 27-Feb-15 | -28 | 0 | 0% | • |
| | B300020-1 | (, , , , , , , , , , , , , , , , , , , | Viaduct B3 PH segment erection | 0 | | 0% | 0 | 21-Mar-15 | | 18-May-15 | 42 | 109 | 0% | _ |
| | B300020-1 | . , , | Viaduct B3 PH segment erection | 0 | | 0% | 0 | 21-Mar-15 | | 30-Apr-18 | 863 | 863 | 0% | _ |
| | | . , , , | - | 0 | | 0% | 0 | 21-IVIAI-15 | | 30-Api-10 | 003 | 003 | 076 | |
| | | Ready for Deck Segme | | 0 | | 00/ | 0 | 05 Are 45 | | 47 May 45 | 00 | <u> </u> | 00/ | 4 |
| | B300010 | , , , | Viaduct B3 deck segment erection | 0 | | 0% | 0 | 25-Apr-15 | | 17-Mar-15 | -28 | 62 | 0% | |
| | B300020 | , , , | Viaduct B3 deck segment erection | 0 | | 0% | 0 | 29-Apr-15 | | 09-May-15 | 8 | 48 | 0% | _ |
| | B300030 | | Viaduct B3 deck segment erection | 0 | | 0% | 0 | 29-Apr-15 | | 16-Apr-15 | -11 | 48 | 0% | _ |
| | B300040 | , , , , , , , , , , , , , , , , , , , | Viaduct B3 deck segment erection | 0 | | 0% | 0 | 21-Mar-15 | | 28-Apr-15 | 27 | 76 | 0% | - |
| | B300050 | . , , | Viaduct B3 deck segment erection | 0 | | 0% | 0 | 21-Mar-15 | | 27-Jan-15 | -43 | 32 | 0% | |
| | Deck installa | 1 | | | | | | | | | | | | |
| | NS11190 | Viaduct B3 - Cantilever | at Pier B2 (B3e) (14 seg) - LG1 | 7 | 06-May-15 | 0% | 7 | 14-May-15 | | 04-Feb-15 | -75 | 0 | 0% | |
| | NS11200 | Viaduct B3 - End Span | at Pier B1 (B3f) (up) (7 seg) - LG1 | 6 | 15-May-15 | 0% | 6 | 22-May-15 | 04-Feb-15 | 11-Feb-15 | -75 | 0 | 0% | |
| | Bridge B2 Su | iperstructure | | | | | | | | | | | | |
| | Milestones | | | | | | | | | | | | | |
| | | | Project ID: J3518DWPrE-M22 | Tuon Mun O | hek Lap Kok I | ink Sou | thern (| Connection | | Date | Revis | sion 1 | Checked | Approv |
| | Actual Work Planned Bar | | Layout: J3518-DWP-3MRP Submission - M22_ | 3-Month Rolli | - | | | | (عمر | 09-Mar-15 | I CON | |)B | , vbhov |
| | Critical Bar | | Filter: TASK filters: 3-Month Lookahead, No CC | | Progress as | • | - | - | 1631 | 31-Mar-15 | | | VY | |
| • | Milestone | | Milestones, No Level of Effort. | (r | 1091035 05 | | iai - 1 J |) | | | | | | |
| | | | | | | | | | | 1 | | | | |



| vity ID | Activity Name | | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|--------------|----------------------|--|----------------|--------------------------------|------------------------|---------------|----------------------------------|-------------|--------------------------|-------------|------------|------------------------|--------|
| | | | | | | | | | | | | | 23 02 |
| | Ready for PH Segment | | | | | | | | | | | | |
| | | or Viaduct B2 PH segment erection | 0 | | 0% | 0 | 20-Apr-15 | | 04-Jul-15 | 52 | 4 | 0% | |
| B200020-1 | . , , , | or Viaduct B2 PH segment erection | 0 | | 0% | 0 | 09-Apr-15 | | 06-May-15 | 21 | 0 | 0% | |
| B200030-1 | | or Viaduct B2 PH segment erection | 0 | | 0% | 0 | 28-Apr-15 | | 09-Apr-15 | -13 | 1 | 0% | |
| B200040-1 | . , , | Viaduct B2 PH segment erection | 0 | | 0% | 0 | 11-Apr-15 | | 06-Mar-15 | -27 | 1 | 0% | |
| B200050-1 | , , , | Viaduct B2 PH segment erection | 0 | | 0% | 0 | 02-Apr-15 | | 02-Feb-15 | -48 | 1 | 0% | |
| B200060-1 | , , , | Viaduct B2 PH segment erection | 0 | | 0% | 0 | 31-Mar-15 | | 12-Jan-15 | -64 | 0 | 0% | |
| B200070-1 | . , , | Viaduct B2 PH segment erection | 0 | | 0% | 0 | 01-Apr-15 | | 27-Feb-15 | -28 | 0 | 0% | |
| | Ready for Deck Segme | | 0 | | 00/ | 0 | 40 May 45 | | 00 14 45 | 45 | 404 | 00(| |
| B200010 | | or Viaduct B2 deck segment erection | 0 | | 0% | 0 | 19-May-15 | | 23-Jul-15 | 45 | 134 | 0% | |
| B200020 | · · · · · | or Viaduct B2 deck segment erection | 0 | | 0% | 0 | 28-May-15 | | 07-Jul-15 | 27 | 116 | 0% | |
| B200060 | | Viaduct B2 deck segment erection | 0 | | 0% | 0 | 22-May-15 | | 05-Mar-15 17-Mar-15 | -58 | 31 | 0% 0% | |
| B200070 | | Viaduct B2 deck segment erection | 0 | | 0% | 0 | 25-Apr-15 | | 17-Mar-15 | -28 | 62 | 0% | |
| Milestones | uperstructure | | | | | | | | | | | | |
| | Ready for PH Segment | Eraction | | | | | | | | | | | |
| | | r Viaduct B1 PH segment erection | 0 | 1 | 0% | 0 | 02-Apr-15 | | 24-Jun-15 | 55 | 0 | 0% | |
| . | . , , | or Viaduct B1 PH segment erection | 0 | | 0% | 0 | · · · | | 24-301-15 26-May-15 | 29 | 0 | 0% | |
| | | or Viaduct B1 PH segment erection | 0 | | 0% | 0 | 16-Apr-15 20-Apr-15 | | 20-101ay-15 29-Jun-15 | 48 | 0 | 0% | |
| | Ready for Deck Segme | | 0 | | 078 | 0 | 20-Api-13 | | 29-3011-13 | 40 | 0 | 078 | |
| B100030 | | or Viaduct B1 deck segment erection | 0 | | 0% | 0 | 29-Apr-15 | | 04-Mar-17 | 515 | 449 | 0% | |
| B100040 | , , , | or Viaduct B1 deck segment erection | 0 | | 0% | 0 | 18-May-15 | | 12-Sep-15 | 86 | 175 | 0% | |
| B100040 | | r Viaduct B1 deck segment erection | 0 | | 0% | 0 | 30-May-15 | | 24-Aug-15 | 61 | 175 | 0% | |
| B100050 | · · · · | or Viaduct B1 deck segment erection | 0 | | 0% | 0 | 10-Jun-15 | | 30-Jul-15 | 35 | 124 | 0% | |
| B100070 | | or Viaduct B1 deck segment erection | 0 | | 0% | 0 | 19-May-15 | | 15-Aug-15 | 63 | 152 | 0% | |
| | uperstructure | | | | 070 | Ū | 10 May 10 | | 10 / 10 | 00 | 102 | 070 | |
| | uperstructure | | | | | | | | | | | | |
| Milestones | | | | | | | | | | | | | |
| | Ready for PH Segment | Erection | | | | | | | | | | | |
| | , , , | r Viaduct C3 PH segment erection | 0 | | 0% | 0 | 16-Jun-15 | | 30-Jan-16 | 177 | 0 | 0% | |
| | uperstructure | | | | 0,0 | , C | | | | | Ū | 0,10 | |
| Milestones | | | | | | | | | | | | | • |
| | Ready for PH Segment | Erection | | | | | | | | | | | |
| | | or Viaduct C1 PH segment erection | 0 | | 0% | 0 | 25-Apr-15 | | 16-Nov-16 | 431 | 0 | 0% | |
| | · · · · · · | or Viaduct C1 PH segment erection | 0 | | 0% | 0 | 17-Apr-15 | | 28-Nov-16 | 447 | 0 | 0% | |
| | uperstructure | 5 | | | | | | | | | | | |
| | uperstructure | | | | | | | | | | | | |
| Milestones | | | | | | | | | | | | | |
| Milestones | Ready for PH Segment | Erection | | | | | | | | | | | |
| | | Viaduct D3 PH segment erection | 0 | | 0% | 0 | 11-May-15 | | 24-Jul-15 | 52 | 0 | 0% | |
| | uperstructure | | | | | | ý | | | | | | |
| Milestones | | | | | | | | | | | | | |
| Milestones | Ready for PH Segment | Erection | | | | | | | | | | | |
| | | r Viaduct D2 PH segment erection | 0 | | 0% | 0 | 18-Jun-15 | | 08-Sep-15 | 62 | 0 | 0% | |
| Bridge D1 St | uperstructure | | | 1 | | | | | | | | | |
| Milestones | | | | | | | | | | | | | |
| Milestones | Ready for PH Segment | Erection | | | | | | | | | | | |
| | | or Viaduct D1 PH segment erection | 0 | | 0% | 0 | 05-May-15 | | 23-Jan-16 | 201 | 5 | 0% | |
| | | - | | | | 4 h. c | . · · · · | | Data | | | | Ann=- |
| Actual Work | | Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_ | Tuen Mun - C | - | | | | ac) | Date 09-Mar-15 | Revis | sion (| | Approv |
| Critical Bar | | Filter: TASK filters: 3-Month Lookahead, No CC | 3-Month Rollin | | • | - | - | 62) | 31-Mar-15 | | N | | |
| Milestone | | Milestones, No Level of Effort. | (F | rogress as | | iar-15 |) | | | | • | | |
| | | | | | | | | | | | | | |

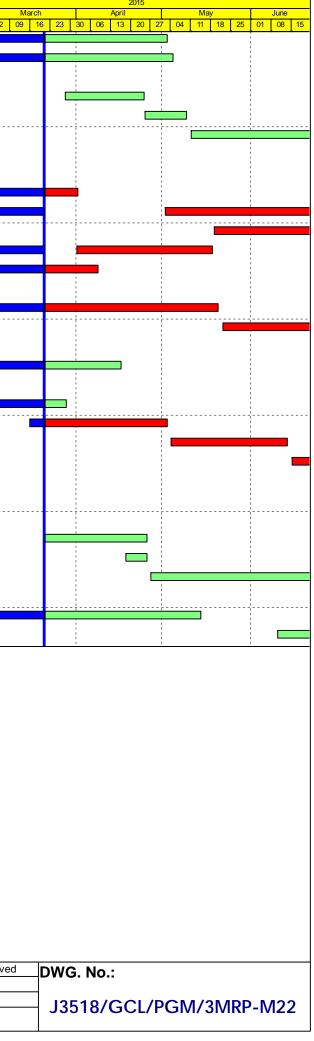


| Activ | vity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete | |
|-------|---------------------------------------|--|-------------|--------------------------------|------------------------|---------------|----------------------------------|---------------------------------------|-------------|-------------|------------|------------------------|----------|
| | | | | Otart | Complete | Dum. | Larry Thisin | | | | | Complete | 23 02 |
| | D100020-1 | Pier D18 (D1c) ready for Viaduct D1 PH segment erection | 0 | | 0% | 0 | 22-Apr-15 | | 19-Oct-15 | 133 | 15 | 0% | |
| | D100030-1 | Pier D17 (D1d) ready for Viaduct D1 PH segment erection | 0 | | 0% | 0 | 28-Apr-15 | | 15-Sep-15 | 103 | 0 | 0% | |
| | Viaduct E | | | | | | | | | | | | |
| | Bridge E1 Su | perstructure | | | | | | | | | | | |
| | Milestones | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | Milestones F | Ready for PH Segment Erection | | | | | | | | | | | |
| | E100030-1 | Pier D1 (D4f) ready for Viaduct E1 PH segment erection | 0 | | 0% | 0 | 11-May-15 | | 24-Jul-15 | 52 | 0 | 0% | |
| | E100070-1 | Pier E1B (E1a3) ready for Viaduct E1 PH segment erection | 0 | | 0% | 0 | 04-May-15 | | 12-Jun-15 | 27 | 0 | 0% | - |
| | E100080-1 | Pier E1A (E1a4) ready for Viaduct E1 PH segment erection | 0 | | 0% | 0 | 07-May-15 | | 02-Mar-15 | -51 | 0 | 0% | , |
| | Bridge E2 Su | perstructure | | | | | | JJ | | | | | |
| | Milestones | | | | | | | | | | | | |
| | Milestones R | Ready for Deck Segment Erection | | | | | | | | | | | |
| | E507060-1 | Viaduct E5 - Complete segment erection for interface span E13D(E5c) to E14D(E5d) with HI | 0 | | 0% | 0 | 21-Mar-15 | | 18-Jun-16 | 341 | 441 | 0% | , |
| | At-Grade Road | dworks and Other Works along Cheung Tung Road | | | | | | | | | | | |
| | | t of Cheung Tung Road adjacent to Viaduct B | | | | | | | | | | | |
| | RP00020 | Construct new ESS adjacent to Viaduct B | 60 | 15-Sep-14 A | 28.33% | 43 | 19-May-15 | 14-Feb-15 | 13-Apr-15 | -27 | 0 | 28% | |
| | RP00030 | Inst. new equip. & testing / commissioning of new ESS | 60 | 20-May-15 | 0% | 60 | 12-Aug-15 | 14-Apr-15 | 08-Jul-15 | -27 | 0 | 0% | |
| | RW50020 | CTR Re-alignment adj. to Via.B - Diversion of watermains | 140 | 01-Apr-15 | 0% | 140 | 10-Oct-15 | 24-Feb-15 | 31-Aug-15 | -31 | 0 | 0% | - |
| | RW50090 | CTR Re-alignment adj. to Via.B - Diversion of Drainage | 120 | 07-May-15 | 0% | 120 | 16-Oct-15 | 24-Mar-15 | 04-Sep-15 | -31 | 0 | 0% | |
| | Box Culvert E | | | | | | | | | | | | |
| | BCE0110 | Construct staircases & backfill to required elevation | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 22-Aug-15 | 04-Sep-15 | 110 | 0 | 0% | |
| | BCE0120 | Construct step irons at 300c/c staggerd & new railings | 6 | 05-Jan-15 A | 0% | 6 | 27-Mar-15 | 29-Aug-15 | 04-Sep-15 | 116 | 6 | 50% | |
| | BCE0130 | Construct all proposed connecting U-Channels | 12 | 21-Mar-15 | 0% | 12 | 08-Apr-15 | 22-Aug-15 | 04-Sep-15 | 110 | 141 | 0% | - |
| | Viaduct B Slo | | | 21 1100 10 | 0,0 | | 007.p. 10 | / ag 10 | 01.000 10 | | | 0,0 | |
| | Slope 9SE-B/ | • | | | | | | | | | | | |
| | | Rockfall Fence Construction | 57 | 20-Jan-15 A | 45.61% | 31 | 04-May-15 | 25-Eeb-17 | 01-Apr-17 | 536 | 527 | 70% | |
| | Zone A & B | | 01 | 20 0011 1071 | 40.0170 | 01 | 04 May 10 | 2010011 | 0170017 | 000 | 021 | 1070 | |
| | | 9SE-B/C9 Zone A1 - Raking Drain 15 nr @ +8.5 | 5 | 19-Jan-15 A | 50% | 3 | 24-Mar-15 | 27-Apr-18 | 30-Apr-18 | 861 | 861 | 50% | |
| | | 9SE-B/C9 Zone A1 - Form 375UC @ +5.5 | 12 | 21-Mar-15 A | 0% | 12 | 08-Apr-15 | 14-Apr-18 | 30-Apr-18 | 851 | 851 | 5% | |
| | | 9SE-B/C9 Zone A2 & B - Inst. 300UC @ +15.0 | 12 | 13-Mar-15 A | 5% | 10 | 01-Apr-15 | 18-Apr-18 | 30-Apr-18 | 854 | 854 | 5% | _ |
| | | 9SE-B/C9 Zone A2 & B - Raking Drain 13 nr @ +10.5 | 4 | 02-Feb-15 A | 0% | 10 | 25-Mar-15 | 25-Apr-18 | 30-Apr-18 | 859 | 859 | 50% | _ |
| | | 9SE-B/C9 Zone A2 & B - Raking Drain 13 III @ +10.5 9SE-B/C9 Zone A2 & B - Soil nail 34 nr @ +9.00 Row A | 13 | 19-Jan-15 A | 0% | 4 13 | 09-Apr-15 | 23-Apr-18 13-Apr-18 | 30-Apr-18 | 850 | 850 | 90% | _ |
| | | 9SE-B/C9 Zone A2 & B - Form 375UC @ +5.5 | | 21-Mar-15 A | 0% | - | 09-Apr-15 08-Apr-15 | 13-Apr-18 | 30-Apr-18 | 851 | | 5% | |
| | | | 12 | | | 12 | · · | · · | • | | 851 | | |
| | | 9SE-B/C9 Zone A & B - Hydroseeding | 6 | 21-Mar-15 A | 0% | 6 | 27-Mar-15 | 25-Aug-15 | 31-Aug-15 | 112 | 72 | 5% | |
| | Zone C & D | | | 04 Mar 45 A | 00/ | 4 | 05 14-45 | 05 4 | 00 1 | 050 | 050 | 50/ | |
| | | 9SE-B/C9 Zone C & D - Raking Drain 12 nr @ +19.0 | 4 | 21-Mar-15 A | 0% | 4 | 25-Mar-15 | 25-Apr-18 | 30-Apr-18 | 859 | 859 | 5% | _ |
| | . | 9SE-B/C9 Zone C & D - Raking Drain 14 nr @ +17.0 | 4 | 21-Mar-15 A | 0% | 4 | 25-Mar-15 | 30-Oct-15 | 03-Nov-15 | 162 | 4 | 5% | - : |
| | | 9SE-B/C9 Zone C & D - Form 375UC @ approx +16.0 | 18 | 13-Mar-15 A | 40% | 11 | 02-Apr-15 | 16-Apr-18 | 30-Apr-18 | 852 | 852 | 20% | |
| | . | 9SE-B/C9 Zone C & D - Raking Drain 9 nr @ +8.0 in rock | 8 | 17-Feb-15 A | 0% | 8 | 30-Mar-15 | 24-Oct-15 | 03-Nov-15 | 158 | 0 | 50% | - |
| | | 9SE-B/C9 Zone C & D - Form 375UC @ +5.5 | 18 | 21-Mar-15 A | 0% | 18 | 16-Apr-15 | 18-Nov-15 | 08-Dec-15 | 178 | 20 | 5% | _ |
| | · · · · · · · · · · · · · · · · · · · | 9SE-B/C9 Zone C & D - Install Geo. Instru. & Baseline Monitoring | 30 | 31-Mar-15 | 0% | 30 | 13-May-15 | 04-Nov-15 | 08-Dec-15 | 158 | 0 | 0% | |
| | | 9SE-B/C9 Zone C & D - Hydroseeding | 12 | 14-May-15 | 0% | 12 | 29-May-15 | 09-Dec-15 | 22-Dec-15 | 158 | 28 | 0% | _ |
| | Slope 9SE-B/ | | 1 | 1 | 1 | 1 | 1 | | | | | | . |
| | . | 9SE-B/C8 - Install Geo. Instru. & Baseline Monitoring | 30 | 08-Jan-15 A | 40% | 18 | 16-Apr-15 | 07-Apr-18 | 30-Apr-18 | 845 | 845 | 30% | _ |
| | | Rockfall Fence Construction | 57 | 20-Jan-15 A | 45.61% | 31 | | 25-Feb-17 | 01-Apr-17 | 536 | 527 | 70% | _ |
| | | 9SE-B/C8 -Hydroseeding | 6 | 12-Feb-15 A | 0% | 6 | 27-Mar-15 | 24-Jul-15 | 31-Jul-15 | 88 | 0 | 80% | |
| | Slope 9SE-B/I | F9 | | | | | | | | | | | |
| | SWVB3070 | 9SE-B/F9 - Raking Drain 17 nr | 5 | 21-Mar-15 A | 0% | 5 | 26-Mar-15 | 24-Apr-18 | 30-Apr-18 | 858 | 858 | 5% | |
| | Actual Work | Project ID: J3518DWPrE-M22 | Mun - C | hek Lap Kok I | ink - Sou | thern (| Connection | | Date | Revi | sion (| Checked | Approve |
| | Planned Bar | Layout: J3518-DWP-3MRP Submission - M22 | | ng Progran | | | | es) | 09-Mar-15 | | D | | |
| | Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort. | | Progress as | • • | - | - | | 31-Mar-15 | | M | /Y | |
| • | Milestone | | · · | - 3 5 - 4 - | | | , | | | | | | |
| | | | | | | | | | | | | | |



| iivity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | Physical % Complete |
|--------------|---|-------------|--------------------------------|------------------------|---------------|----------------------------------|------------|-------------|-------------|------------|------------------------|
| SWVB3110 | 9SE-B/F9 - Install Geo. Instru. & Baseline Monitoring | 30 | 22-Jan-15 A | 0% | 30 | 02-May-15 | 20-Mar-18 | 30-Apr-18 | 833 | 833 | 50% |
| SWVB3120 | A Rockfall Fence Construction | 57 | 20-Jan-15 A | 45.61% | 31 | 04-May-15 | 25-Feb-17 | 01-Apr-17 | 536 | 527 | 70% |
| Slope 9SE-B | /F85 | | | | | | | | _ | | |
| SWVB4020 | 9SE-B/F85 - Filling & forming slope | 18 | 28-Mar-15 | 0% | 18 | 24-Apr-15 | 01-Aug-15 | 24-Aug-15 | 88 | 0 | 0% |
| SWVB4030 | 9SE-B/F85 - Form UC | 12 | 25-Apr-15 | 0% | 12 | 09-May-15 | 19-Oct-15 | 03-Nov-15 | 130 | 0 | 0% |
| SWVB4035 | 9SE-B/F85 - Install Geo. Instru. & Baseline Monitoring | 30 | 11-May-15 | 0% | 30 | 24-Jun-15 | 04-Nov-15 | 08-Dec-15 | 130 | 0 | 0% |
| Re-alignme | nt of Cheung Tung Road adjacent to Viaduct C | , | | | | | · | | | · / | |
| West Portion | 1 | | | | | | | | | | |
| RW61000 | Realign CTR (West of Abut. C) - Site Clearance | 42 | 03-Sep-14 A | 76.19% | 10 | 01-Apr-15 | 15-Jan-15 | 26-Jan-15 | -53 | 32 | 75% |
| RW61010 | Realign CTR (West of Abut. C) - Road drainage works | 60 | 15-Jan-15 A | 38.33% | 37 | 24-Jun-15 | 09-Mar-15 | 27-Apr-15 | -40 | 18 | 40% |
| RW61020 | Realign CTR (West of Abut. C) - Utilily diversion | 90 | 19-May-15 | 0% | 90 | 18-Sep-15 | 09-Mar-15 | 11-Jul-15 | -53 | 0 | 0% |
| RW61082 | Realign CTR (West of Abut. C) - Road formation | 48 | 20-Nov-14 A | 31.25% | 33 | 18-May-15 | 16-Dec-14 | 26-Jan-15 | -85 | 0 | 30% |
| RW61084 | Realign CTR (West of Abut. C) - Retaining Wall C1 | 48 | 13-Oct-14 A | 75% | 12 | 08-Apr-15 | 05-Dec-14 | 18-Dec-14 | -85 | 0 | 75% |
| East Portion | | | | | | | | | | | |
| RW60000 | Realign CTR (East of Abut. C) - Site Clearance | 54 | 01-Dec-14 A | 18.52% | 44 | 20-May-15 | 03-Dec-14 | 26-Jan-15 | -87 | 0 | 18% |
| RW60005 | Realign CTR (East of Abut. C) - Road formation | 66 | 22-May-15 | 0% | 66 | 21-Aug-15 | 27-Jan-15 | 22-Apr-15 | -87 | 0 | 0% |
| Emergency | Gates G6 & G7 | | | | | | | | | | |
| RP10070 | Construct Expressway Fence /Beam Barriers betw new Gates G6 & G7 | 24 | 30-Oct-14 A | 25% | 18 | 16-Apr-15 | 07-Apr-18 | 30-Apr-18 | 845 | 845 | 25% |
| ESS Sub-Sta | tion | | | | | | | | | | |
| RP10020 | Construct new ESS-C Sub.Stn. adjacent to Viaduct C | 48 | 30-Jun-14 A | 85.42% | 7 | 28-Mar-15 | 21-Apr-18 | 30-Apr-18 | 856 | 856 | 85% |
| RP10030 | Inst.Eqpt. & Testing / commissioning of new ESS | 60 | 16-Mar-15 A | 50% | 30 | 02-May-15 | 27-Jan-15 | 05-Mar-15 | -43 | 0 | 0% |
| RP10040 | Removal of equipment in existing ESS | 30 | 04-May-15 | 0% | 30 | 13-Jun-15 | 06-Mar-15 | 14-Apr-15 | -43 | 0 | 0% |
| RP10050 | Demolish the existing ESS | 6 | 15-Jun-15 | 0% | 6 | 24-Jun-15 | 16-Apr-15 | 22-Apr-15 | -43 | 44 | 0% |
| Natural Terr | ain Hazard Mitigation Works | | | | | | | | | | |
| NTHM Work | s - West Portion | | | | | | | | | | |
| Check Dam | no. 1 (CD1) | | | | | | | | | | |
| GFXX497 | Predrilling Works for Check Dams | 25 | 21-Mar-15 | 0% | 25 | 25-Apr-15 | 04-May-15 | 05-Jun-15 | 30 | 0 | 0% |
| GFXX499 | CD1 - Mobilization of rig for MiniPile | 6 | 18-Apr-15 | 0% | 6 | 25-Apr-15 | 29-May-15 | 05-Jun-15 | 30 | 0 | 0% |
| GFXX500 | CD1 - Installation of MiniPile (13nos.) | 52 | 27-Apr-15 | 0% | 52 | 09-Jul-15 | 06-Jun-15 | 17-Aug-15 | 30 | 0 | 0% |
| | & All Assoc Works from Tung Chung to Southern Landfall | | | | | | | | | | |
| WM00030 | Trial trench works for watermains along existing CTR | 157 | 26-May-14 A | 75.16% | 39 | 14-May-15 | 14-Mar-16 | 05-May-16 | 272 | 66 | 75% |
| WM00120 | Lay DN450 Fresh Water Main along re-aligned CTR (app. 500 m at 12m/day) | 48 | 10-Jun-15 | 0% | 48 | 14-Aug-15 | 18-Jun-15 | 21-Aug-15 | 5 | 0 | 0% |

| Actual Work | Project ID: J3518DWPrE-M22 | Tuen Mun - Chek Lap Kok Link - Southern Connection | Date | Revision | Checked | Approve |
|--------------|--|--|-----------|----------|---------|---------|
| Planned Bar | Layout: J3518-DWP-3MRP Submission - M22_ | 5-Wonth Rolling Programme (Page 41 of 41 Pages) | 09-Mar-15 | | DB | |
| Critical Bar | Filter: TASK filters: 3-Month Lookahead, No CC | (Progress as of 21-Mar-15) | 31-Mar-15 | | WY | |
| ♦ Milestone | Milestones, No Level of Effort. | (FIOGLESS as 01 21-Mai-15) | | | | |



Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

(In reference to CINOTECH (2011) Agreement No. CE35/2011 EP Baseline Environmental Monitoring for Hong Kong-Zhuhai-Macao Bridge Tuen Mun-Chep Lap Kok Link – Investigation. Updated EM&A Manual for Tuen Mun-Chek Lap Kok Link)

Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link Southern Connection Viaduct Section Environmental Mitigation and Enhancement Measure Implementation Schedule

| EIA Reference | EM&A Manual | Agent | Implementation Agent | Relevant Standard or Requirement | - | lement Stages | | Status | |
|------------------|----------------|--|--|-------------------------------------|---|------------------|---|--------|----------|
| | Reference | | | | | D | C | 0 | |
| AIR QUALIT | Y | | • | | | | | | • |
| 4.8.1 | 3.8 | An effective watering programme of eight daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum; | All areas / throughout construction period | Contractor | TMEIA Avoid smoke impacts and disturbance | | Ŷ | | ✓ |
| 4.8.1 | 3.8 | The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | <> |
| 4.8.1 | 3.8 | The Contractor shall not burn debris or other materials on the works areas. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Ŷ | | ✓ |
| 4.8.1 | 3.8 | In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet. | All unpaved haul roads / throughout construction period in hot, dry or windy weather | Contractor | TMEIA Avoid smoke impacts and disturbance | | Y | | • |
| 4.8.1 | 3.8 | Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | • |
| 4.8.1 | 3.8 | Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Ŷ | | ✓ |
| 4.8.1 | 3.8 | During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Ŷ | | ✓ |

| Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | | ement Stages | | Status |
|------------|----------------|---|--|-------------------------|---|------------|-----------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| 4.8.1 | 3.8 | Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Ŷ | | • |
| 4.8.1 | 3.8 | No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site. | All site exits / throughout construction period | Contractor | TMEIA Avoid dust | | Ŷ | | ✓ |
| 4.8.1 | 3.8 | Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable. | All exposed surfaces / throughout construction period | Contractor | TMEIA Avoid dust generation | | Ŷ | | ✓ |
| 4.8.1 | 3.8 | All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | ⇔ |
| 4.11 | Section 3 | EM&A in the form of 1 hour and 24 hour dust monitoring and site audit | All representative existing ASRs / throughout construction period | Contractor | EM&A Manual | ÷ | Ŷ | | • |
| Noise | i | | | | | . . | i | | |
| 5.11 | Section 4 | Noise monitoring | All existing representative sensitive receivers / during North Lantau Viaduct construction | Contractor | EM&A Manual | | Ŷ | | ✓ |
| WATER QUA | LITY | | | | | .i | .1 | | L |
| General Ma | rine Works | | | | | | | | |
| 6.10 | - | Bored piling to be undertaken within a metal casing. | Marine viaducts of TM- CLKL and HKLR/ bored piling | Contractor | TM-EIAO | | Ŷ | | • |
| 6.10 | - | Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | - | ement Stages | | Status |
|------------------|----------------|--|---|-------------------------|---|---|-----------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| 6.10 | - | Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Ŷ | | ✓ |
| 5.10 | - | Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| 5.10 | - | Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Ŷ | | <> |
| 5.10 | - | Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| 5.10 | - | All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| 5.10 | - | The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| Cemporary S | Staging work | | . | | • | • | | | |
| | 5.2 | Regular inspection for the accumulation of floating refuse and collection of floating refuse if required | During temporary staging works | Contractor | | | Y | | ✓ |
| | 5.2 | Provision of temporary drainage system on the temporary staging for collection of construction site runoff to allow appropriate treatment before discharge into the sea | During temporary staging works | Contractor | | | Y | | ✓ |
| | 5.2 | Wastewater generated from construction works such as bored / drilling water will be collected, treated, neutralized and de-silted through silt trap or sedimentation tank before disposal | During temporary staging works | Contractor | | | Y | | ✓ |
| | 5.2 | One additional water quality monitoring station is | During temporary | Contractor | | | Y | | ✓ |

| EIA Reference | Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | - | lement Stages | | Status |
|------------------|-----------|--|--|-------------------------|-------------------------------------|---|------------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| | | proposed at station SR4a In case elevated SS or turbidity is identified during the water quality monitoring, the source of pollution will be tracked down and be removed as soon as possible. In case depletion of dissolved oxygen is identified, artificial aeration will be arranged at the monitoring station SR4a, | staging works | | | | | | |
| Land Works | | | | | | | | | |
| 6.10 | - | Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Sewage effluent and discharges from on- site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided. | All areas/ throughout construction period | Contractor | TM-EIAO | | Υ | | ✓ |
| 6.10 | - | Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |
| 6.10 | - | Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm. | All areas/ throughout construction period | Contractor | TM-EIAO | | Υ | | • |
| 6.10 | - | Temporary access roads should be surfaced with crushed stone or gravel. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | 4 |
| 6.10 | - | Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |
| 6.10 | - | Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | | lementa Stages | | Status |
|------------------|----------------|---|--|-------------------------|-------------------------------------|---|-------------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| 6.10 | - | Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms. | All areas/ throughout construction period | Contractor | TM-EIAO | | Ŷ | | <> |
| 6.10 | 5.8 | Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. | All areas/ throughout construction period | Contractor | TM-EIAO | | Υ | | ✓ |
| 6.10 | - | Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |
| 6.10 | - | All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |
| 6.10 | - | Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | 1 |
| 6.10 | - | Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for offsite disposal. | All areas/ throughout construction period | Contractor | TM-EIAO | | Υ | | <> |
| 6.10 | - | The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately. | All areas/ throughout construction period | Contractor | TM-EIAO | | Ŷ | | ✓ |
| 6.10 | - | Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance. | All areas/ throughout construction period | Contractor | TM-EIAO Waste Disposal Ordinance | | Ŷ | | 4 |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lement Stage | | Status |
|------------------|----------------|--|---|-------------------------------------|-------------------------------------|-----|-----------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| 6.10 | - | All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | <> |
| 6.10 | - | Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |
| 6.10 | - | Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals. | Roadside/design and operation | Design Consultant/ Contractor | TM-EIAO | Y | | Υ | • |
| 6.10 | Section 5 | All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice. | All areas/ throughout construction period | Contractor | EM&A Manual | | Y | | • |
| Water Quali | ity Monitoring | 3 | | | | | | | |
| 6.10 | Section 5 | Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations | Designated monitoring stations as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality monitoring for a year. | Contractor | EM&A Manual | | Υ | Y | • |
| Ecology | | | | | | | | | |
| 8.14 | 6.3 | Specification for and implement pre, during and post construction dolphin abundance monitoring. | All Areas/Detailed Design/ during construction works/post construction | Design Consultant/ Contractor | TMEIA | Y | Y | Y | * |
| 8.14 | 6.3 | Specification for bored piling monitoring | Detailed Design | Design Consultant | TMEIA | Y | | | n/a |
| 8.14 | 6.3 | Implement any recommendations of the bored piling monitoring | Southern marine viaduct/Throughout | Contractor | TMEIA | | Y | | 4 |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lemen Stage | | Status |
|------------------|----------------|---|---|--|-------------------------------------|-----|----------------|---|-----------------------------------|
| | Reference | | | | | D | C | 0 | |
| | | | construction during bored piling | 5 | | | | | ¢ |
| 8.14 | 6.3,6.5 | Avoidance of peak CWD calving season in May and June for driving of metal caissons during bored piling works | Southern marine viaduct/ May and June during bored piling | Contractor | TMEIA | | Y | | ✓ |
| 8.14 | 6.3,6.5 | Specification and implementation of 250m dolphin exclusion zone. | All marine bored piling and temporary staging works areas/Detailed Design/during all marine bored piling and temporary staging works | Design Consultant/ Contractor | TMEIA | Y | Ŷ | | • |
| 8.15 | 6.3, 6.5 | Specification and deployment of an artificial reef of an area of 3,600 m ² in an area where fishing activities are prohibited. | Area of prohibited fishing activities/Detailed Design/towards end of construction period | TM-CLKL/ HKBCF Design Consultant/ TM-CLKL/ HKBCF Contractor | TMEIA | Y | | Y | n/a To be enforced by AFCD. |
| 8.14 | 6.3, 6.5 | Specification and implementation of marine vessel control specifications | All areas/Detailed Design/during construction works | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 8.14 | 6.3, 6.5 | Design and implementation of acoustic decoupling methods for marine bored piling and the whole lifespan of temporary staging works. | All areas/ Detailed Design/during marine bored piling and temporary staging works | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 8.15 | 6.3, 6.4 | Pre-construction phase survey and coral translocation | Tai Ho Wan (donar site) and Yam Tsui Wan (receptor site) /Detailed Design/Prior to construction | Design Consultant/ Contractor | TMEIA | Y | Υ | | n/a |
| 8.15 | 6.5 | Audit coral translocation success | Yam Tsui Wan (receptor site)/Post translocation | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Undertaken gabion wall works in Stream NL1 in the dry season | North Lantau slope works/dry | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|------------------|-----------------------------|---|--|-------------------------------------|-------------------------------------|--------------------------|---|---|---|
| | Reference | | | | | D | С | 0 | |
| | | | season/construction phase | | | | | | ¢ |
| 7.13 | 6.5 | The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule. | All areas / As soon as accessible | Contractor | TMEIA | | Y | | n/a. To be approved by AFCD/LCSD |
| 7.13 | 6.5 | Spoil heaps shall be covered at all times. | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Avoid damage and disturbance to the remaining and surrounding natural habitat | All areas / Throughout construction period | Contractor | TMEIA | • | Y | | ✓ |
| 7.13 | 6.5 | Placement of equipment in designated areas within the existing disturbed land | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Disturbed areas to be reinstated immediately after completion of the works. | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Construction activities should be restricted to the proposed works boundary | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| LANDSCAPE | AND VISUAL | | | | | | | | |
| 10.9 | 7.6 | Round angle, patterned finishes, and oval shaped pier were considered in the viaduct design, and further details will be developed under ACABAS submission (DM3) | All areas/detailed design | Design Consultant | TMEIA | Y | | | n/a |
| 10.9 | 7.6 | Details of the street furniture will be developed in the detailed design stage (DM4) | All areas/detailed design | Design Consultant | TMEIA | Y | | | n/a |
| 10.9 | 7.6 | Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5) | All areas/detailed design | Design Consultant | TMEIA | Ŷ | | | n/a |
| 10.9 | 7.6 | Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Ŷ | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lement Stages | entation Statu ges | |
|------------------|----------------|--|---|-------------------------------------|-------------------------------------|-----|------------------|-----------------------|---|
| | Reference | | | | | D | С | 0 | |
| | | prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage) (CM1) | | | | | | | |
| 10.9 | 7.6 | Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2) | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Υ | | ✓ Implemented as the Contract Specification |
| 10.9 | 7.6 | Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3). | All areas/detailed design/during construction/post construction | Design Consultant/ | TMEIA | Y | Y | | • |
| 10.9 | 7.6 | Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone) (CM4) | All areas/detailed design/during construction/post construction | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 10.9 | 7.6 | Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5) | All areas/detailed design/ during construction/post construction | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 10.9 | 7.6 | Control night-time lighting and glare by hooding all lights (CM6) | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 10.9 | 7.6 | Ensure no run-off into water body adjacent to the Project Area (CM7) | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 10.9 | 7.6 | Avoidance of excessive height and bulk of buildings and structures (CM8) | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 10.9 | 7.6 | Recycle/Reuse all felled trees and vegetation, e.g. | All areas/detailed | Design | TMEIA | Y | Y | | ✓ |

| EIA Reference | EM&A Manual Poforonco | Environmental Protection Measures | | Relevant Standard or Requirement | Imp | lemen Stage | | Status | |
|------------------|-----------------------------|---|--|-------------------------------------|-------|----------------|---|--------|--|
| | Reference | | | | | D | C | 0 | |
| | | mulching (CM9) | design/ during construction | Consultant/ Contractor | | | | | |
| 10.9 | 7.6 | Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10). | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Υ | | n/a |
| 10.9 | 7.6 | Re-vegetation of affected woodland/shrubland with native species (OM1) | All areas/detailed design/ during construction/ during operation | Design Consultant/ Contractor | TMEIA | Y | Υ | Υ | n/a. To be implemented by AFCD/HyD/ L CSD |
| 10.9 | 7.6 | Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2) | All areas/detailed design/ during construction/ during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Υ | n/a To be implemented by HyD/LCSD |
| 10.9 | 7.6 | Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and minimise unnecessary light spill (OM3) | All areas/detailed design/ during construction / during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Y | n/a. To be implemented by HyD/LCSD |
| 10.9 | 7.6 | Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement (OM4) | All areas/detailed design/ during construction / during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Y | n/a. To be implemented by HyD/LCSD |
| 10.9 | 7.6 | Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and | All areas/detailed design/ during | Design Consultant/ | TMEIA | Y | Y | Y | n/a. To be |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/Timing | Implementation Agent | Relevant Standard or Requirement | Imp | ement Stages | | Status |
|------------------|----------------|---|---|-------------------------|--|-----|-----------------|---|-------------|
| | Reference | finishes | construction / during | Contractor | | D | C | 0 | implemented |
| | | | operation | | | | | | by HyD |
| WASTE | | | | | | | | | |
| 12.6 | | The Contractor shall identify a coordinator for the management of waste. | Contract mobilisation | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | | The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established. | Contract mobilisation | Contractor | TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material | | Υ | | • |
| 12.6 | | The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges. | Contract mobilisation | Contractor | TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance. | | Y | | • |
| 12.6 | 8.1 | Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling. | Contract Mobilisation | Contractor | TMEIA | | Y | | • |
| 12.6 | 8.1 | The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting. | All areas / throughout construction period | Contractor | TMEIA | | Y | | • |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lement Stage | | Status |
|------------------|----------------|--|---|-------------------------|-------------------------------------|------|-----------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| 12.6 | 8.1 | Rock armour from the existing seawall should be reused on the new sloping seawall as far as possible | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | The site and surroundings shall be kept tidy and litter free. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | No waste shall be burnt on site. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate. | Detailed Design | Design Consultant | TMEIA | Y | | | n/a |
| 12.6 | 8.1 | The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off. | All areas / throughout construction period | Contractor | TMEIA | | Y | | <> |
| 12.6 | 8.1 | Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | The Contractor should recycle as many C&D | All areas / throughout | Contractor | TMEIA | •••• | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | - | lement Stages | | Status |
|------------------|----------------|--|---|-------------------------|-------------------------------------|---|------------------|---|--------|
| | Reference | | | | | D | C | 0 | |
| | | materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities. | construction period | | | | | | |
| 12.6 | 8.1 | All falsework will be steel instead of wood. | All areas / throughout construction period | Contractor | TMEIA | | Y | | • |
| 12.6 | 8.1 | Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; Having a capacity of <450L unless the specifications have been approved by the EPD; and Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. Clearly labelled and used solely for the storage of chemical wastes; Enclosed with at least 3 sides; Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; Adequate ventilation; | All areas / throughout construction period | Contractor | TMEIA | | Υ | | |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lement Stage | | Status |
|------------------|----------------|---|--|-------------------------|-------------------------------------|-----|-----------------|---|--------|
| | Reference | | | | | D | C | 0 | |
| | | (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Incompatible materials are adequately separated. | | | | | | | |
| 12.6 | 8.1 | Waste oils, chemicals or solvents shall not be disposed of to drain, | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Night soil should be regularly collected by licensed collectors. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited. | | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | All waste containers shall be in a secure area on hardstanding; | All areas / throughout construction period | Contractor | TMEIA | | Y | | • |
| 12.6 | 8.1 | Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling. | All areas / throughout construction period | Contractor | TMEIA | | Y | | • |
| 12.6 | 8.1 | Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local | Site Offices/ throughout construction period | Contractor | TMEIA | | Y | | ✓ |

| EIA Referen | | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lement Stages | | Status |
|----------------|--------------------|---|--|-------------------------|-------------------------------------|-----|------------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| | | collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site. | | | | | | | |
| 12.6 | Section 8 | EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken. | All areas / throughout construction period | Contractor | EM&A Manual | | Υ | | ✓ |
| CULTURA | AL HERITAGE | | | | | | | | |
| 11.8 | Section 9 | EM&A in the form of audit of the mitigation measures | All areas / throughout construction period | Highways Department | EIAO-TM | | Y | | n/a |
| U | 0 | struction, O=Operation mitigation measures will be the Highways Department of th | ne Hong Kong SAR Gover | nment | | | | | |
| 1 | Compliance of Mi | tigation Measures | | | | | | | |
| <> | Compliance of Mi | tigation but need improvement | | | | | | | |
| x | Non-compliance of | of Mitigation Measures | | | | | | | |
| | Non-compliance of | of Mitigation Measures but rectified by Contractor | | | | | | | |
| Δ | Deficiency of Miti | gation Measures but rectified by Contractor | | | | | | | |
| n/a | Not Applicable in | Reporting Period | | | | | | | |

Appendix D

Summary of Action and Limit Levels

Table D1Action and Limit Levels for 1-hour and 24-hour TSP

| Parameters | Action | Limit |
|-----------------------------------|--|-------|
| 24 Hour TSP Level in $\mu g/m^3$ | ASR9A/ASR8A = 178 ASR9C/ASR8/ASR9 = 178 | 260 |
| 1 Hour TSP Level in $\mu g / m^3$ | ASR9A/ASR8A = 394 ASR9C/ASR8/ASR9 = 393 | 500 |

Table D2Action and Limit Levels for Construction Noise (0700-1900 hrs of normal
weekdays)

| Time Period | Action | Limit |
|----------------------------------|---|-----------|
| 0700-1900 hrs on normal weekdays | When one documented complaint is received | 75* dB(A) |

Table D3Action and Limit Levels for Water Quality

| Parameter | Action Level# | Limit Level# |
|--|--|--|
| DO in mg/L ^(a) | Surface and Middle | Surface and Middle |
| | 5.0 mg/L | 4.2 mg/L |
| | Bottom | Bottom |
| | 4.7 mg/L | 3.6 mg/L |
| Turbidity in NTU (Depth- averaged ^{(b), (c)}) | 120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., | 130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e., |
| | 27.5 NTU | 47.0 NTU |
| SS in mg/L (Depth-averaged $_{(b), (c)}$) | 120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., 23.5 mg/L | 130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun and 99%-ile of baseline data, i.e., |
| | | 34.4 mg/L |

Notes:

Baseline data: data from HKZMB Baseline Water Quality Monitoring between 6 and 31 October 2011.

- (a) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (b) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths
- (c) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- (d) All figures given in the table are used for reference only, and EPD may amend the figures whenever it is considered as necessary

| Parameter | Action Level# | Limit Level# |
|------------------|---|--------------------------------------|
| (e) The 1%-ile o | of baseline data for surface and middle I | DO is 4.2 mg/L, whilst for bottom DO |
| is 3.6 mg/L. | | |

Table D4Action and Limit Levels for Impact Dolphin Monitoring

| | North Lantau Social Cluster | | | | |
|-------------------|---|--|--|--|--|
| | NEL | NWL | | | |
| Action Level | STG < 70% of baseline & | STG < 70% of baseline & | | | |
| | ANI < 70% of baseline | ANI < 70% of baseline | | | |
| Limit Level | [STG < 40% of baseline & ANI < 40% of baseline] | | | | |
| | and | | | | |
| | STG < 40% of baselin | ne & ANI < 40% of baseline | | | |
| Notes: | | | | | |
| 1. STG means quar | terly encounter rate of number of dolp | ohin sightings, which is 6.00 i | | | |

- NEL and 9.85 in NWL during the baseline monitoring period
 ANI means quarterly encounter rate of total number of dolphins, which is 22.19 in NEL and 44.66 in NWL during the baseline monitoring period
- For North Lantau Social Cluster, AL will be trigger if NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

Table D5Derived Value of Action Level (AL) and Limit Level (LL)

| | North Lantau Social Cluster | | | | |
|--------------|-----------------------------|------------------------|--|--|--|
| | NEL | NWL | | | |
| Action Level | STG < 4.2 & ANI< 15.5 | STG < 6.9 & ANI < 31.3 | | | |
| Limit Level | [STG < 2.4 | 4 & ANI <8.9] | | | |
| | a | and | | | |
| | [STG < 3.9 & ANI <17.9] | | | | |

Appendix E

EM&A Monitoring Schedules

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 31 March 2015)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------------|--------------|-------------------------|--------------|---------|----------|
| 01-Mar | 02-Mar | | | | 06-Mar | 07-M |
| | | | Noise Impact Monitoring | | | |
| | | | | | | |
| 08-Mar | 09-Mar | 10-Mar | 11-Mar | 12-Mar | 13-Mar | 14-M |
| | | Noise Impact | | | | |
| | | Monitoring | | | | |
| | | | | | | |
| 15-Mar | 16-Mar | 17-Mar | 18-Mar | 19-Mar | 20-Mar | 21-M |
| | Noise Impact | | | Noise Impact | 20 1101 | 2 |
| | Monitoring | | | Monitoring | | |
| | | | | | | |
| 22-Mar | 23-Mar | 24-Mar | 25-Mar | 26-Mar | 27-Mar | 28-N |
| | | | Noise Impact Monitoring | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 29-Mar | 30-Mar | 31-Mar | | | | |
| | | Noise Impact | | | | |
| | | Monitoring | | | | |
| | | | | | | |
| | | | | | | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Air Quality Monitoring Schedule (1 to 31 March 2015)

07-Mar

14-Mar

21-Mar

28-Mar

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance Sunday Wednesday Thursday Friday Saturday Monday Tuesday 01-Mar 02-Mar 03-Mar 04-Mar 05-Mar 06-Mar 1-hr TSP Monitoring 24-hr TSP Monitoring 08-Mar 09-Mar 10-Mar 11-Mar 12-Mar 13-Mar 1-hr TSP Monitoring 24-hr TSP Monitoring 15-Mar 17-Mar 19-Mar 20-Mar 16-Mar 18-Mar 1-hr TSP Monitoring 1-hr TSP Monitoring 24-hr TSP Monitoring 24-hr TSP Monitoring 25-Mar 22-Mar 23-Mar 24-Mar 26-Mar 27-Mar 1-hr TSP Monitoring 24-hr TSP Monitoring

| 29 | 9-Mar | 30-Mar | 31-Mar | | |
|----|-------|--------|---|--|--|
| | | | 1-hr TSP Monitoring 24-hr TSP Monitoring | | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 30 April 2015)

| Sunday | Monday | | Tuesday | | Wednesday | Thursda | ıy | Friday | Saturday |
|--------|----------------------------|---------------------|----------------------------|-----|-------------------------|----------------------------|--------|--------|----------|
| | | | | | 01-Apr | | 02-Apr | 03-Apr | 04-7 |
| | | | | | | | | | |
| 05-Apr | | <mark>)6-Apr</mark> | 07-4 | ٩pr | | | 09-Apr | 10-Apr | 11-/ |
| | Noise Impact Monitoring | | | | | Noise Impact Monitoring | | | |
| 12-Apr | 1 | 3-Apr | 14-/ | | | | 16-Apr | 17-Apr | 18-/ |
| | | | | | Noise Impact Monitoring | | | | |
| 19-Apr | 2 | 20-Apr | 21-/ | ٩pr | 22-Apr | | 23-Apr | 24-Apr | 25-/ |
| · | | | Noise Impact Monitoring | • | | | · | | |
| 26-Apr | 2 | 27-Apr | 28-/ | ٩pr | 29-Apr | | 30-Apr | | |
| | Noise Impact Monitoring | | | | | Noise Impact Monitoring | | | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Air Quality Monitoring Schedule (1 to 30 April 2015)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|----------------------|---|---|----------------------|--------|----------|
| 01-Mar | 02-Mar | 03-Mar | 01-Apr | 02-Apr | 03-Apr | 04-Ap |
| | | | | | | |
| 05-Apr | 06-Apr | 07-Apr | 08-Apr | 09-Apr | 10-Apr | 11-Api |
| | 1-hr TSP Monitoring | | | 1-hr TSP Monitoring | | |
| | 24-hr TSP Monitoring | | | 24-hr TSP Monitoring | | |
| 10.1 | | | 45.4 | | 17.0.1 | |
| 12-Apr | 13-Apr | 14-Apr | | 16-Apr | 17-Apr | 18-Apr |
| | | | 1-hr TSP Monitoring 24-hr TSP Monitoring | | | |
| | | | | | | |
| 19-Apr | 20-Apr | | 22-Apr | 23-Apr | 24-Apr | 25-Apr |
| | | 1-hr TSP Monitoring 24-hr TSP Monitoring | | | | |

| 26-Apr | 27-Apr | 28-Apr | 29-Apr | 30-Apr | |
|--------|---|--------|--------|---|--|
| | 1-hr TSP Monitoring 24-hr TSP Monitoring | | | 1-hr TSP Monitoring 24-hr TSP Monitoring | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 31 May 2015)

| Sunday | Monday | | Monday Tuesday | | Wednesday | Wednesday Thursday | | Saturday |
|--------|----------------------------|--------|----------------------------|--------|-------------------------|----------------------------|-------------------|----------|
| | | | | | | | P. Holiday 01-May | 02-Ma |
| | | | | | | | | |
| | | | | | | | | |
| 03-May | | 04-May | | 05-May | | 07-May | 08-May | 09-M |
| | | | | | Noise Impact Monitoring | | | |
| | | | | | | | | |
| 10-May | | 11-May | | 12-May | 13-May | 14-May | 15-May | 16-M |
| | | | Noise Impact Monitoring | | | | | |
| | | | | | | | | |
| 17-May | | 18-May | | 19-May | | | 22-May | 23-M |
| | Noise Impact Monitoring | | | | | Noise Impact Monitoring | | |
| | | | | | | | | |
| 24-May | P. Holiday | 25-May | | 26-May | | 28-May | 29-May | 30-N |
| | | | | | Noise Impact Monitoring | | | |
| | | | | | | | | |
| 31-May | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Air Quality Monitoring Schedule (1 to 31 May 2015)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|----------|------------------------|---|---|--------------------------------|-------------------|--------------|
| | | | | | P. Holiday 01-May | 02-May |
| | | | | | | |
| 03-May | v 04-May | 05-May | 06-May 1-hr TSP Monitoring 24-hr TSP Monitoring | 07-May | 08-May | <u>09-Ma</u> |
| 10-May | <mark>′ 11-M</mark> ay | 12-May 1-hr TSP Monitoring 24-hr TSP Monitoring | 13-May | 14-May | 15-May | 16-Ma |
| 17-May | 1-hr TSP Monitoring | 19-May | | 1-hr TSP Monitoring | 22-May | 23-Ma |
| 24 May | 24-hr TSP Monitoring | 26-May | | 24-hr TSP Monitoring 28-May | 29-May | 30-Ma |
| 24-1viay | P. Holiday 23-Iviay | 20-iviay | 1-hr TSP Monitoring 24-hr TSP Monitoring | 20-1VIAY | 29-Way | 30-1418 |
| 31-May | | | | | | |
| | | | | | | |

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Marine Water Quality Monitoring (WQM) Schedule (March 15)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | |
|--------|---------|------------------------------|-----------|------------------------------|--------|------------------|-----------|
| 01-Mar | 02-Mar | 03-Mai | r 04-Mar | 05-Ma | | | 07-Mar |
| | | WQM | | WQM | | WQM | |
| | | Mid-Ebb | | Mid-Ebb | | Mid-Flood | |
| | | 12:12 | | 13:02 | | 8:08 | |
| | | (10:27 - 13:57) Mid Flood | | (11:17 - 14:47) Mid Flood | | (06:23 - 09:53) | |
| | | Mid-Flood 17:39 | | Mid-Flood 18:53 | | Mid-Ebb 13:56 | |
| | | (15:54 - 19:24) | | (17:08 - 20:38) | | (12:11 - 15:41) | |
| 08-Mar | 09-Mar | (15.54 - 19.24) 10-Mai | r 11-Mar | (17.08 - 20.38) 12-Ma | 13-Mar | (12.11 - 15.41) | 14-Mar |
| | 00 111 | WQM | | WQM | | WQM | i + iviai |
| | | Mid-Flood | | Mid-Flood | | Mid-Flood | |
| | | 9:21 | | 10:21 | | 11:56 | |
| | | (07:36 - 11:06) | | (08:36 - 12:06) | | (10:11 - 13:41) | |
| | | Mid-Ebb | | Mid-Ebb | | Mid-Ebb | |
| | | 15:35 | | 17:05 | | 19:27 | |
| | | (13:50 - 17:20) | | (15:20 - 18:50) | | (17:42 - 21:12) | |
| 15-Mar | 16-Mar | 17-Mai | r 18-Mar | 19-Ma | | | 21-Mar |
| | | WQM | | WQM | | WQM | |
| | | Mid-Ebb | | Mid-Ebb | | Mid-Flood | |
| | | 11:04 | | 12:27 | | 7:40 | |
| | | (09:19 - 12:49) | | (10:42 - 14:12) | | (05:55 - 09:25) | |
| | | Mid-Flood | | Mid-Flood | | Mid-Ebb 13:45 | |
| | | 16:16 | | 18:08 | | | |
| 22-Mar | 23-Mar | (14:31 - 18:01) 24-Mai | r 25-Mar | (16:23 - 19:53) 26-Ma | 27-Mar | (12:00 - 15:30) | 28-Mar |
| | 23-11/1 | WQM | 23-10181 | WQM | | WQM | 20-11/101 |
| | | Mid-Flood | | Mid-Flood | | Mid-Flood | |
| | | 9:17 | | 10:27 | | 7:36 | |
| | | (07:32 - 11:02) | | (08:42 - 12:12) | | (05:51 - 09:21) | |
| | | Mid-Ebb | | Mid-Ebb | | Mid-Ebb | |
| | | 15:53 | | 17:35 | | 20:18 | |
| | | (14:08 - 17:38) | | (15:50 - 19:20) | | (18:33 - 22:03) | |
| 29-Mar | 30-Mar | 31-Mai | r | | | | |
| | | WQM | | | | | |
| | | Mid-Ebb | | | | | |
| | | 11:21 | | | | | |
| | | (09:36 - 13:06) | | | | | |
| | | Mid-Flood | | | | | |
| | | 16:46 | | | | | |
| | | (15:01 - 18:31) | | | | | |

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Marine Water Quality Monitoring (WQM) Schedule (April 15)

| Sunday | Monday | Tuesday | Wednesday | Thursday | | Friday | Saturday | |
|--------|--------|-----------------|-----------|------------------------------|--------|--------|------------------------------|--------|
| | | | 01-Apr | | 02-Apr | 03-Apr | | 04-Apr |
| | | | | WQM | | | WQM | |
| | | | | Mid-Ebb | | | Mid-Ebb | |
| | | | | 12:11 | | | 13:04 | |
| | | | | (10:26 - 13:56) Mid-Flood | | | (11:19 - 14:49) Mid-Flood | |
| | | | | 18:08 | | | 19:21 | |
| | | | | (16:23 - 19:53) | | | (17:36 - 21:06) | |
| 05-Apr | 06-Apr | 07-Apr | 08-Apr | (10.23 - 19.55) | 09-Apr | 10-Apr | (17.30 - 21.00) | 11-Apr |
| 05-Api | 00-Api | WQM | 00-Api | WQM | J3-Abi | ιυ-Αρι | WQM | п-дрі |
| | | Mid-Flood | | Mid-Flood | | | Mid-Flood | |
| | | 8:15 | | 9:14 | | | 10:29 | |
| | | (06:30 - 10:00) | | (07:29 - 10:59) | | | (08:44 - 12:14) | |
| | | Mid-Ebb | | Mid-Ebb | | | Mid-Ebb | |
| | | 14:36 | | 15:53 | | | 17:40 | |
| | | (12:51 - 16:21) | | (14:08 - 17:38) | | | (15:55 - 19:25) | |
| 12-Apr | 13-Apr | | 15-Apr | 1 | 16-Apr | 17-Apr | | 18-Apr |
| | | WQM | | WQM | | | WQM | |
| | | Mid-Ebb | | Mid-Ebb | | | Mid-Ebb | |
| | | 9:53 | | 11:25 | | | 12:43 | |
| | | (08:08 - 11:38) | | (09:40 - 13:10) | | | (10:58 - 14:28) | |
| | | Mid-Flood | | Mid-Flood | | | Mid-Flood | |
| | | 14:57 | | 17:08 | | | 18:57 | |
| 10 4 | | (13:12 - 16:42) | | (15:23 - 18:53) | | 04 4 | (17:12 - 20:42) | |
| 19-Apr | 20-Apr | 21-Apr WQM | 22-Apr | Z WQM | 23-Apr | 24-Apr | WQM | 25-Apr |
| | | Mid-Flood | | Mid-Flood | | | Mid-Flood | |
| | | 8:08 | | 9:16 | | | 10:33 | |
| | | (06:23 - 09:53) | | (07:31 - 11:01) | | | (08:48 - 12:18) | |
| | | Mid-Ebb | | Mid-Ebb | | | Mid-Ebb | |
| | | 14:48 | | 16:16 | | | 17:57 | |
| | | (13:03 - 16:33) | | (14:27 - 17:57) | | | (16:12 - 19:42) | |
| 26-Apr | 27-Apr | 28-Apr | | | 30-Apr | | () | |
| | | WQM | | WQM | | | | |
| | | Mid-Ebb | | Mid-Ebb | | | | |
| | | 10:07 | | 11:14 | | | | |
| | | (08:22 - 11:52) | | (09:29 - 12:59) | | | | |
| | | Mid-Flood | | Mid-Flood | | | | |
| | | 15:25 | | 17:11 | | | | |
| | | (13:40 - 17:10) | | (15:26 - 18:56) | | | | |

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Marine Water Quality Monitoring (WQM) Schedule (May 15)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturda | |
|--------|--------|-----------------|-----------|-----------------|-----------|-----------------|--------|
| | | | 01-Apr | 02-Ap | or 01-May | | 02-May |
| | | | | | | WQM | |
| | | | | | | Mid-Ebb | |
| | | | | | | 12:11 | |
| | | | | | | (10:26 - 13:56) | |
| | | | | | | Mid-Flood | |
| | | | | | | 18:33 | |
| | | | | | | (16:48 - 20:18) | |
| 03-May | 04-May | 05-May | 06-May | | y 08-May | | 09-May |
| | | WQM | | WQM | | WQM | |
| | | Mid-Ebb | | Mid-Flood | | Mid-Flood | |
| | | 13:44 | | 8:15 | | 9:32 | |
| | | (11:59 - 15:29) | | (06:30 - 10:00) | | (07:47 - 11:17) | |
| | | Mid-Flood | | Mid-Ebb | | Mid-Ebb | |
| | | 20:33 | | 14:57 | | 16:28 | |
| | | (18:48 - 22:18) | | (13:12 - 16:42) | | (14:43 - 18:13) | |
| 10-May | 11-May | 12-May | 13-May | | y 15-May | | 16-May |
| | | WQM | | WQM | | WQM | |
| | | Mid-Ebb | | Mid-Ebb | | Mid-Ebb | |
| | | 8:22 | | 10:18 | | 11:44 | |
| | | (06:37 - 10:07) | | (08:33 - 12:03) | | (09:59 - 13:29) | |
| | | Mid-Flood | | Mid-Flood | | Mid-Flood | |
| | | 13:17 | | 15:58 | | 18:00 | |
| | | (11:32 - 15:02) | | (14:13 - 17:43) | | (16:15 - 19:45) | |
| 17-May | 18-May | 19-May | 20-May | | y 22-May | | 23-May |
| | | WQM | | WQM | | WQM | |
| | | Mid-Ebb | | Mid-Flood | | Mid-Flood | |
| | | 13:48 | | 8:14 | | 9:27 | |
| | | (12:03 - 15:33) | | (06:29 - 09:59) | | (07:42 - 11:12) | |
| | | Mid-Flood | | Mid-Ebb | | Mid-Ebb | |
| | | 20:45 | | 15:12 | | 16:35 | |
| | | (19:00 - 22:30) | | (13:27 - 16:57) | | (14:50 - 18:20) | |
| 24-May | 25-May | 26-May | 27-May | | y 29-May | | 30-May |
| | | WQM | | WQM | | WQM | |
| | | Mid-Flood | | Mid-Ebb | | Mid-Ebb | |
| | | 12:39 | | 10:00 | | 11:11 | |
| | | (10:54 - 14:24) | | (08:15 - 11:45) | | (09:26 - 12:56) | |
| | | Mid-Ebb | | Mid-Flood | | Mid-Flood | |
| | | 19:16 | | 15:51 | | 17:35 | |
| | | (17:31 - 21:01) | | (14:06 - 17:36) | | (15:50 - 19:20) | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 31 March 2015)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---------|--------|----------------|----------------|----------------|---------|----------|
| 01-Mar | 02-Mar | | | 05-Mar | 06-Mar | 07-Mar |
| | | | Impact Dolphin | | | |
| | | | Monitoring | | | |
| | | | | | | |
| | | | | | | |
| 08-Mar | 09-Mar | 10-Mar | 11-Mar | 12-Mar | 13-Mar | 14-Mar |
| | | | Impact Dolphin | | | |
| | | | Monitoring | | | |
| | | | | | | |
| | | | | | | |
| 15-Mar | 16-Mar | 17-Mar | 18-Mar | 19-Mar | 20-Mar | 21-Mar |
| | | Impact Dolphin | | | | |
| | | Monitoring | | | | |
| | | | | | | |
| | | | | | | |
| 22-Mar | 23-Mar | 24-Mar | 25-Mar | 26-Mar | 27-Mar | 28-Mar |
| 22 1101 | 20 110 | 21 110 | | Impact Dolphin | 21 1101 | 20 1101 |
| | | | | Monitoring | | |
| | | | | | | |
| | | | | | | |
| 00.14 | 00 M | 04.14 | | | | |
| 29-Mar | 30-Mar | 31-Mar | | | | |
| | | | | | | |
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HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 30 April 2015)

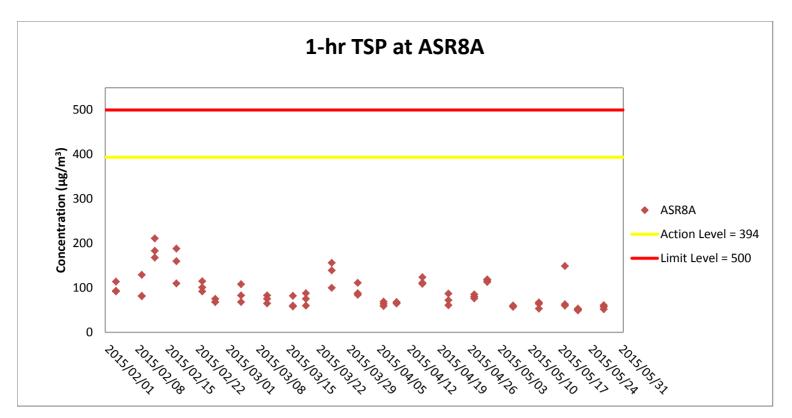
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---------|--------|-----------|----------------|----------|--------------------------|----------|
| | | | 01-Apr | 02-Apr | 03-Apr | 04-Apr |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 05-Apr | 06-Apr | 07-Apr | 08-Apr | 09-Apr | 10-Apr | 11-Apr |
| · · · · | • | · · · · · | Impact Dolphin | | Impact Dolphin | • |
| | | | Monitoring | | Monitoring | |
| | | | | | | |
| | | | | | | |
| 12-Apr | 13-Apr | 14 Apr | 15-Apr | 16-Apr | 17 Apr | 18-Apr |
| 12-Арі | тэ-Арг | 14-Apr | тэ-Арг | то-Арг | 17-Apr Impact Dolphin | Το-Αρι |
| | | | | | Monitoring | |
| | | | | | Monitoring | |
| | | | | | | |
| | | | | | | |
| 19-Apr | 20-Apr | 21-Apr | | 23-Apr | 24-Apr | 25-Apr |
| | | | Impact Dolphin | | | |
| | | | Monitoring | | | |
| | | | | | | |
| | | | | | | |
| 26-Apr | 27-Apr | 28-Apr | 29-Apr | 30-Apr | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |

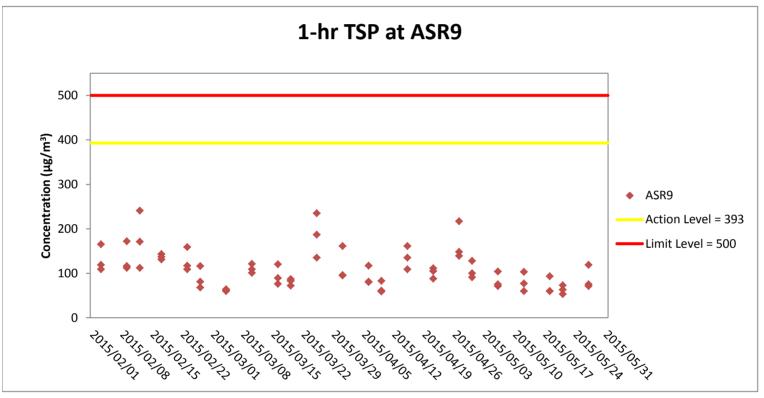
HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 31 May 2015)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---------|--------------------------|---------|-----------|----------------|----------------|----------|
| | | | | | 01-May | 02-May |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 03-May | 04-May | 05-May | 06-May | 07-May | 08-May | 09-May |
| 00 1114 | Impact Dolphin | 00 May | | | Impact Dolphin | |
| | Monitoring | | | | Monitoring | |
| | | | | | | |
| | | | | | | |
| 10-May | 11-May | 12-May | | | 15-May | 16-May |
| | | | | Impact Dolphin | | |
| | | | | Monitoring | | |
| | | | | | | |
| 47 Ман | 10 Mar | 40 Mar | | 04 Ман | 00 Ман | 02 Ман |
| 17-May | 18-May Impact Dolphin | 19-May | 20-May | 21-May | 22-May | 23-May |
| | Monitoring | | | | | |
| | J J | | | | | |
| | | | | | | |
| 24-May | 25-May | 26-May | 27-May | 28-May | 29-May | 30-May |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 31-May | | | | | | |
| | | | | | | |
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Appendix F

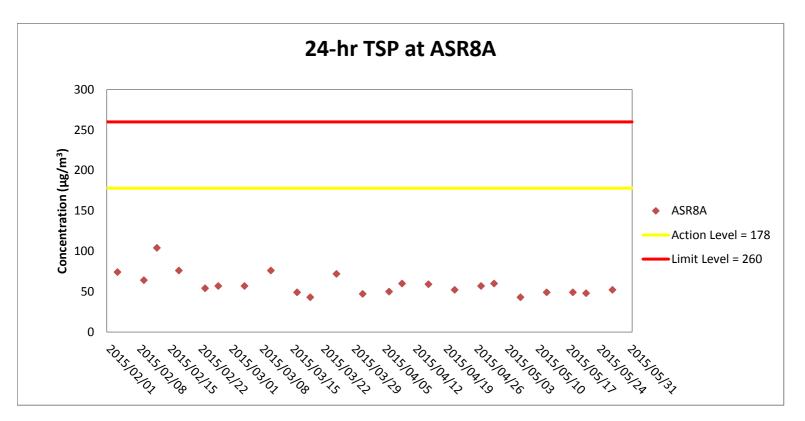
Impact Air Quality Monitoring Graphical Presentation

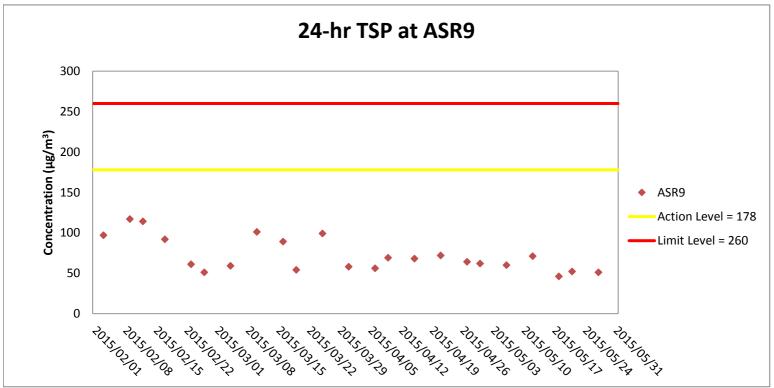




Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Construction and installation of pile caps; Pier construction; Drainage works; Re-alignment of Cheung Tung Road; Land piling; Pre-drilling works; Installation of pier head segment; Additional land GI, trial pits & lab testing; Tree survey, felling and transplanting; Relocation of MTRC fence; and Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9. Marine works within the reporting period include Construction of Pile caps at Viaducts; Marine piling platform installation & uninstallation; Pier Construction; Installation of launching gantry; Installation of pier head segments; Marine Piling at Viaducts; and Additional marine ground investigation (GI) and laboratory testing.



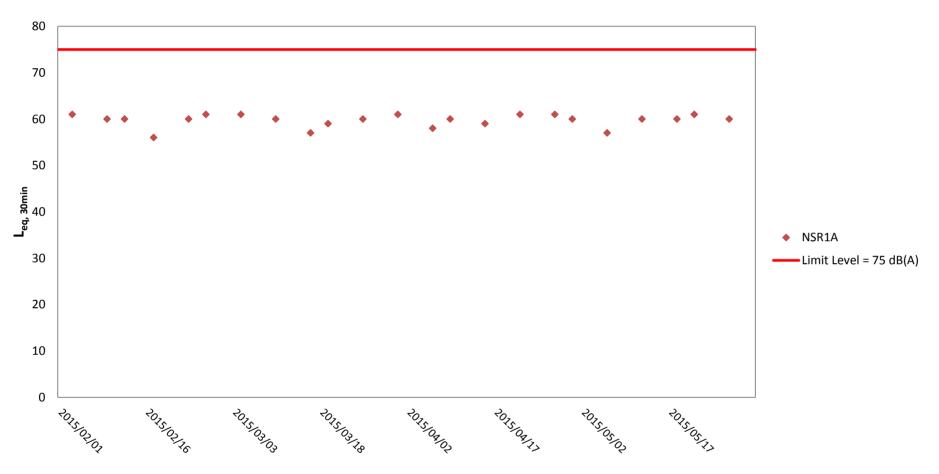


Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Construction and installation of pile caps; Pier construction; Drainage works; Re-alignment of Cheung Tung Road; Land piling; Pre-drilling works; Installation of pier head segment; Additional land GI, trial pits & lab testing; Tree survey, felling and transplanting; Relocation of MTRC fence; and Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9. Marine works within the reporting period include Construction of Pile caps at Viaducts; Marine piling platform installation & uninstallation; Pier Construction; Installation of launching gantry; Installation of pier head segments; Marine Piling at Viaducts; and Additional marine ground investigation (GI) and laboratory testing.

Appendix G

Impact Noise Monitoring Graphical Presentation



Noise Monitoring Results at NSR 1A ($L_{eq, 30min}$)

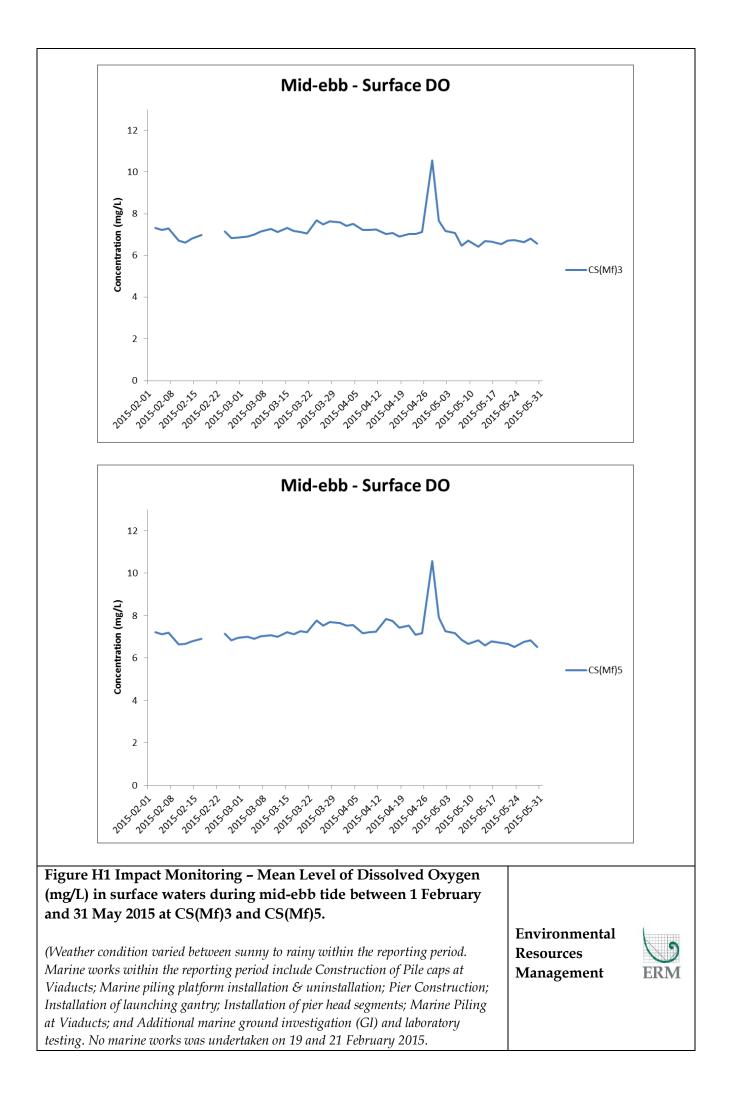
Weather condition within the reporting period varied between sunny to rainy.

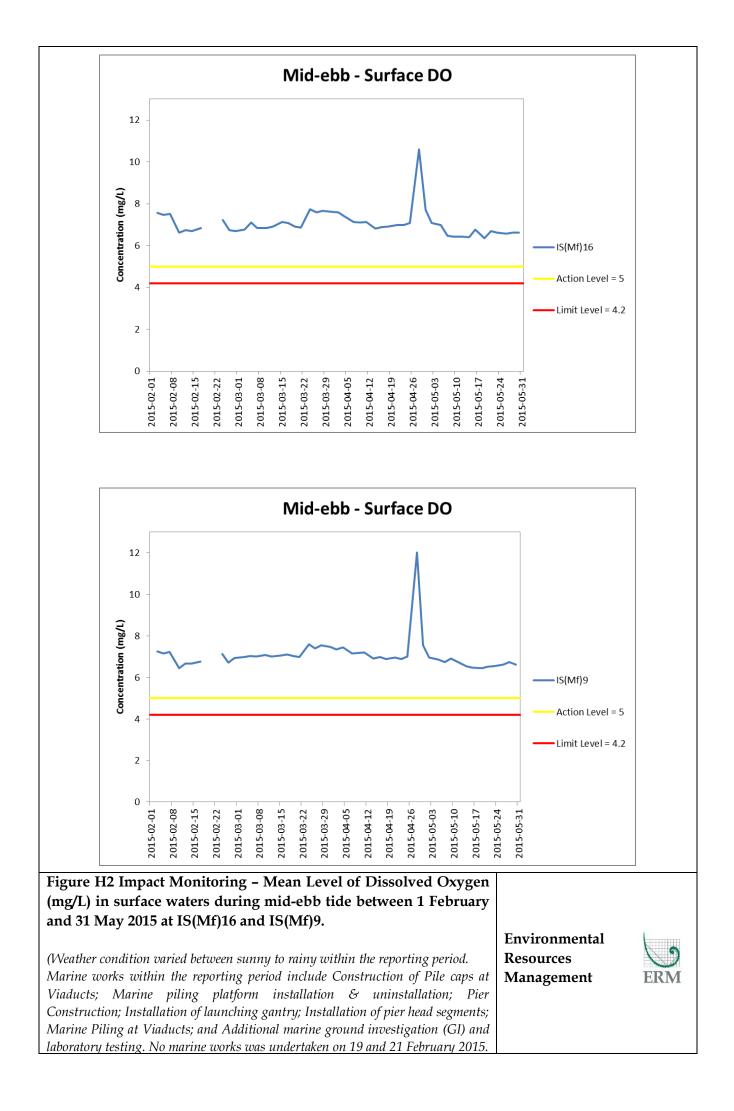
Major construction works undertaken within the reporting period include Construction and installation of pile caps; Pier construction; Drainage works; Realignment of Cheung Tung Road; Land piling; Pre-drilling works; Installation of pier head segment; Additional land GI, trial pits & lab testing; Tree survey, felling and transplanting; Relocation of MTRC fence; and Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

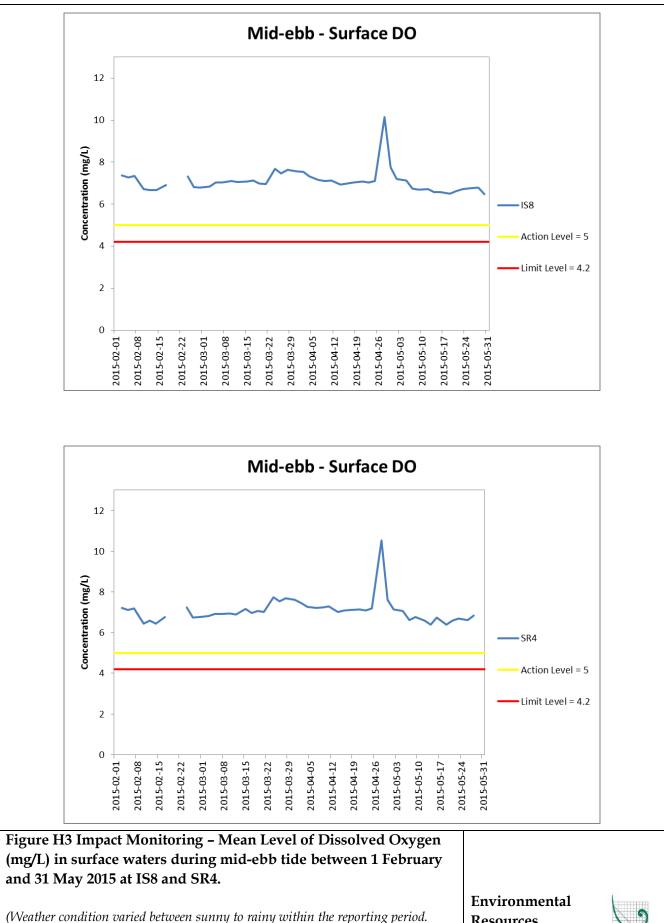
Marine works within the reporting period include Construction of Pile caps at Viaducts; Marine piling platform installation & uninstallation; Pier Construction; Installation of launching gantry; Installation of pier head segments; Marine Piling at Viaducts; and Additional marine ground investigation (GI) and laboratory testing.

Appendix H

Impact Water Quality Monitoring Graphical Presentation



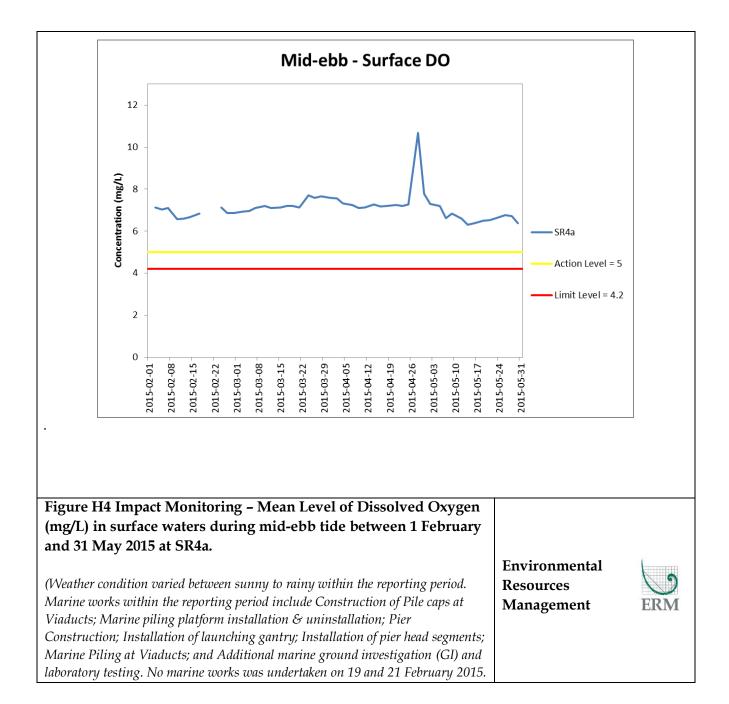


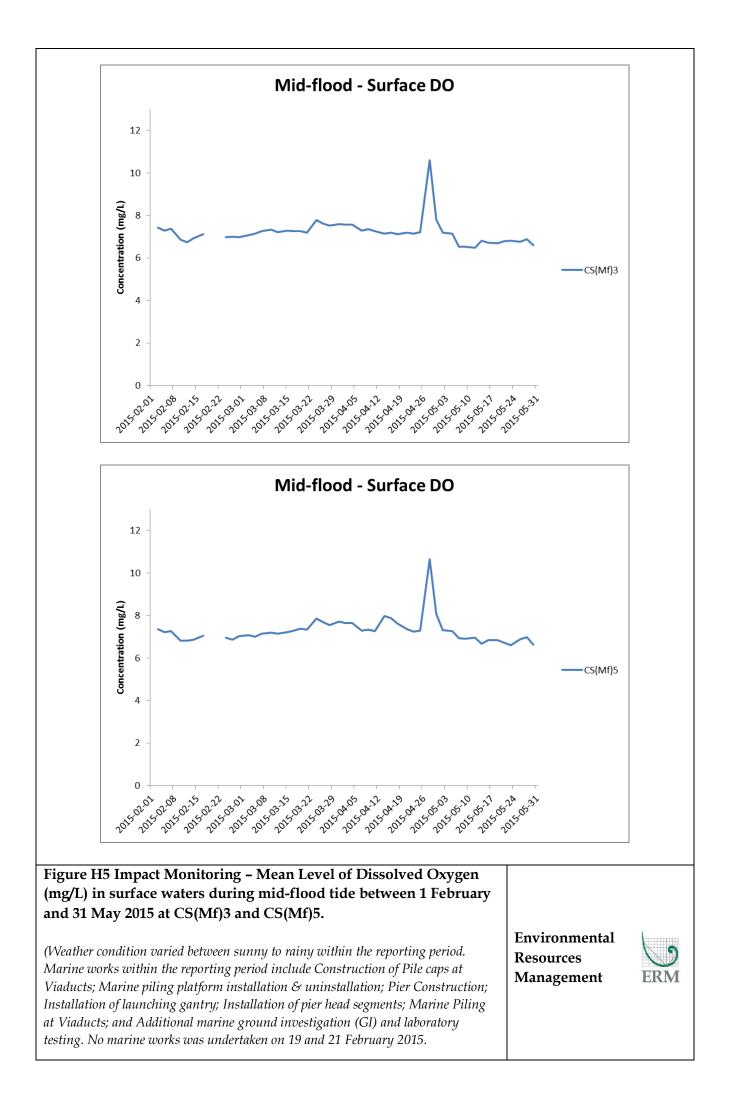


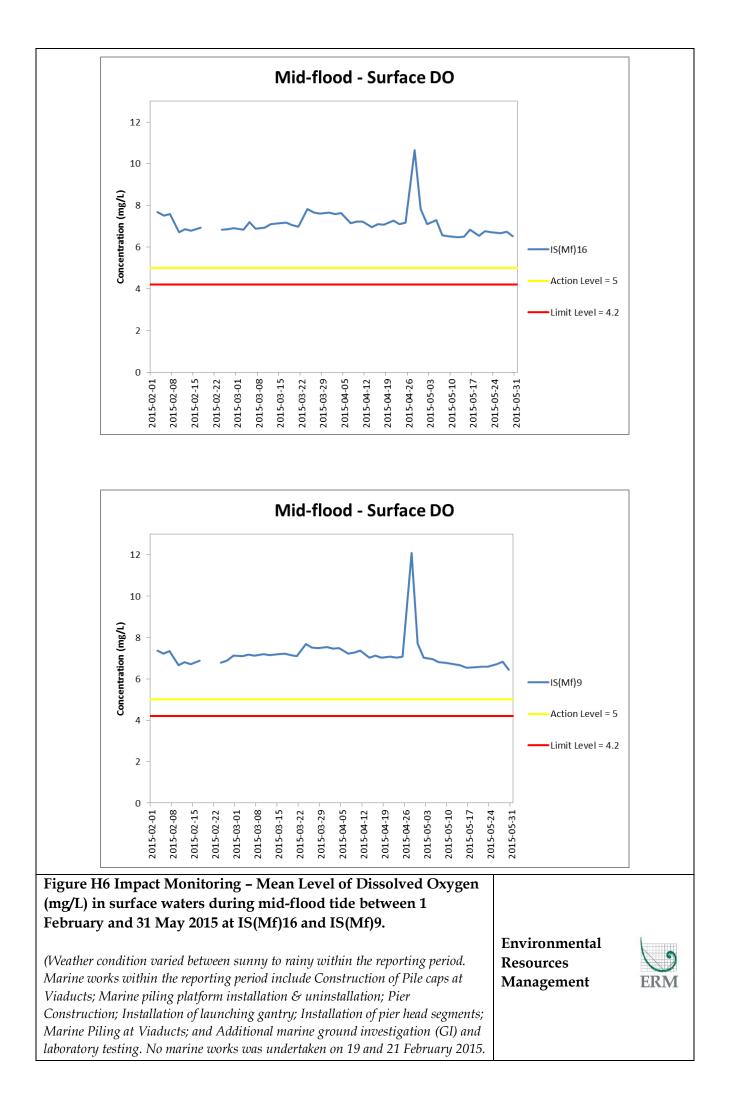
Marine works within the reporting period include Construction of Pile caps at Viaducts; Marine piling platform installation & uninstallation; Pier Construction; Installation of launching gantry; Installation of pier head segments; Marine Piling at Viaducts; and Additional marine ground investigation (GI) and laboratory testing. No marine works was undertaken on 19 and 21 February 2015.

Resources Management









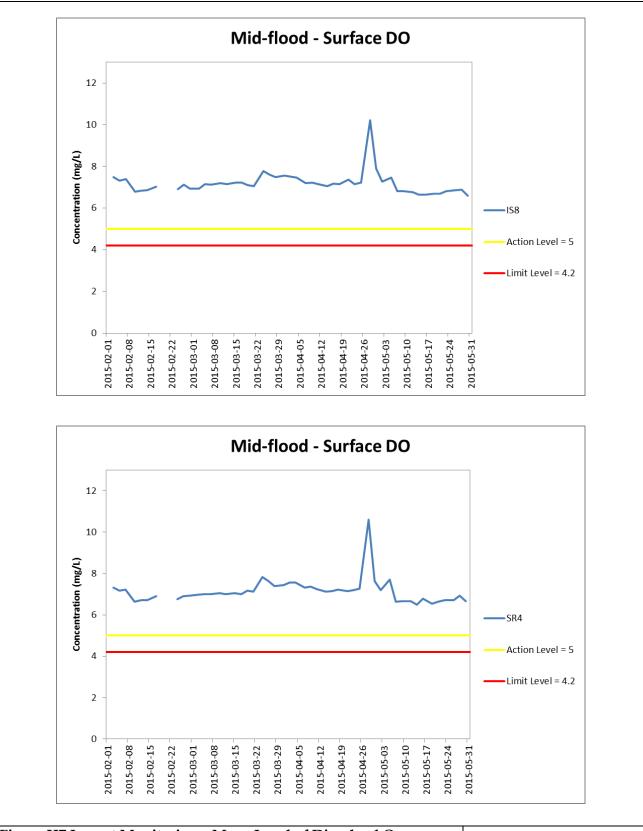
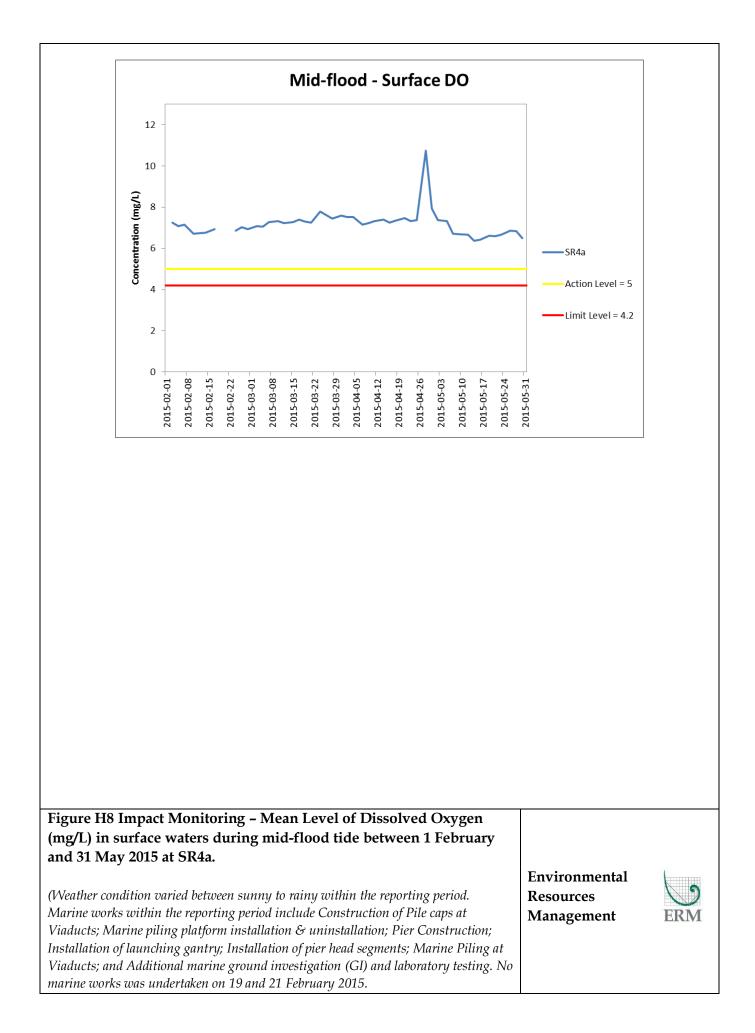
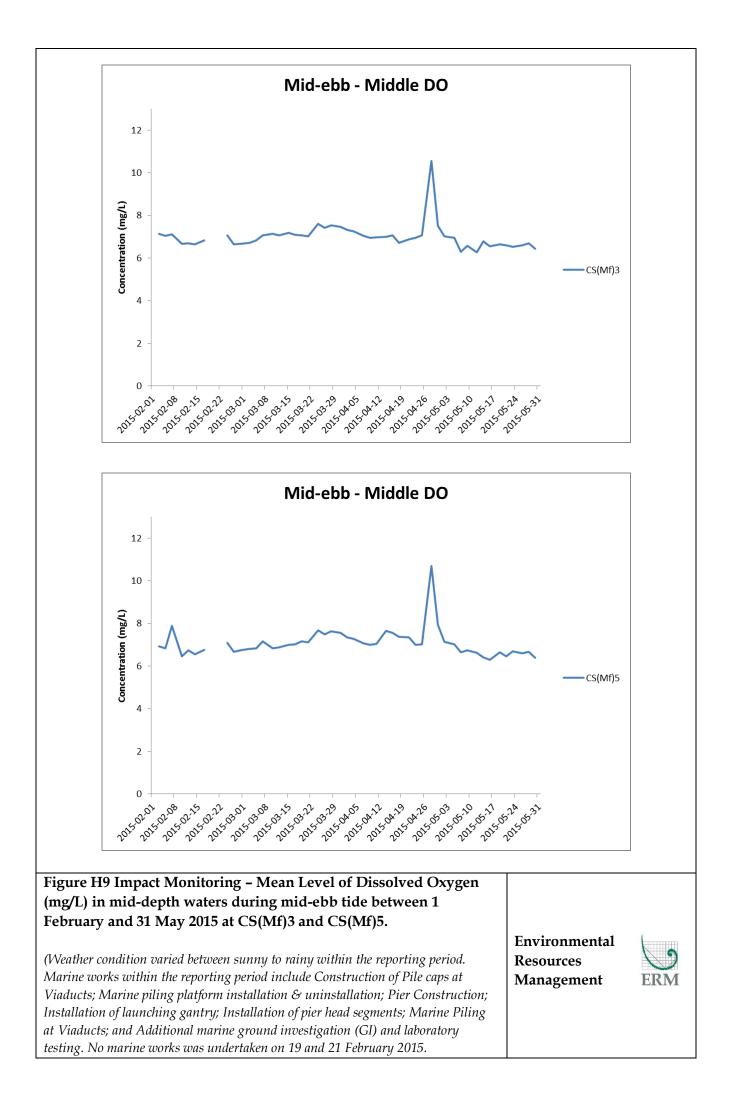


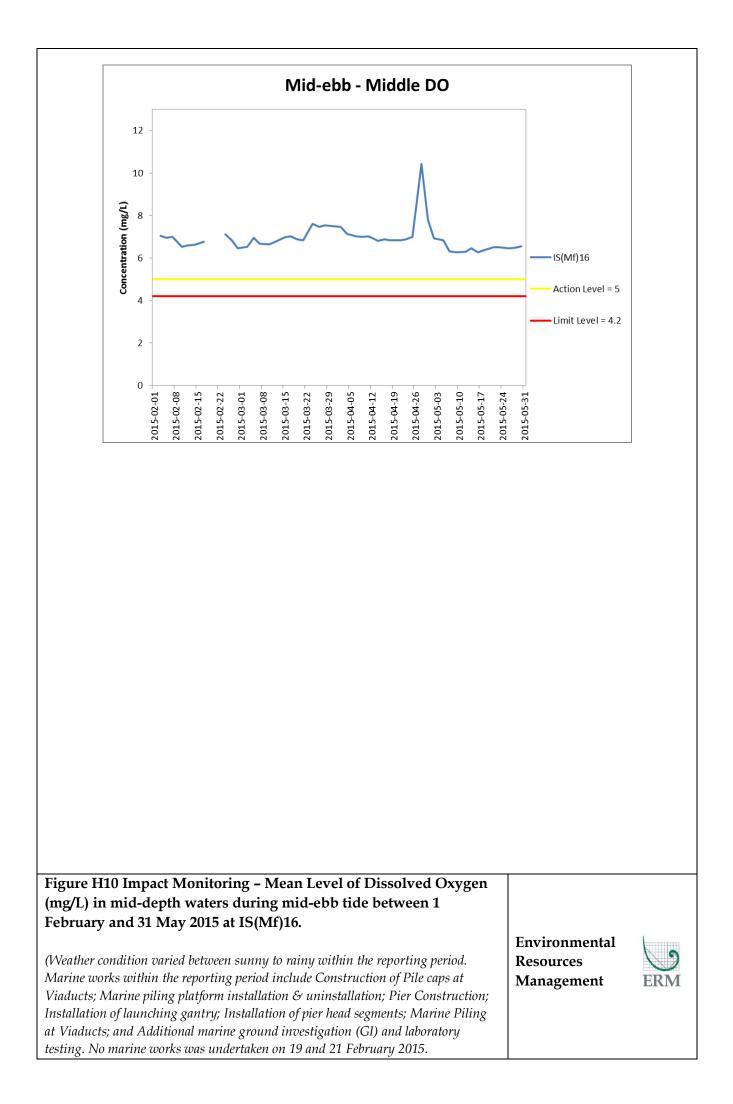
Figure H7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 February and 31 May 2015 at IS8 and SR4.

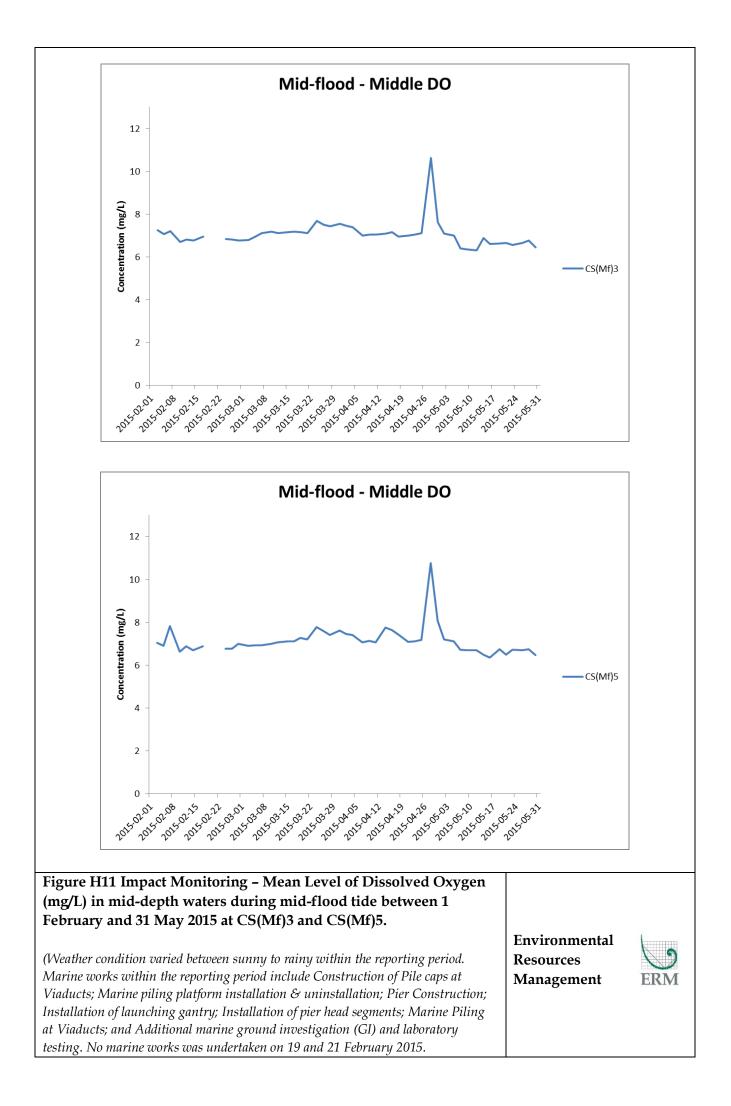
(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction of Pile caps at Viaducts; Marine piling platform installation & uninstallation; Pier Construction; Installation of launching gantry; Installation of pier head segments; Marine Piling at Viaducts; and Additional marine ground investigation (GI) and laboratory testing. No marine works was undertaken on 19 and 21 February 2015.

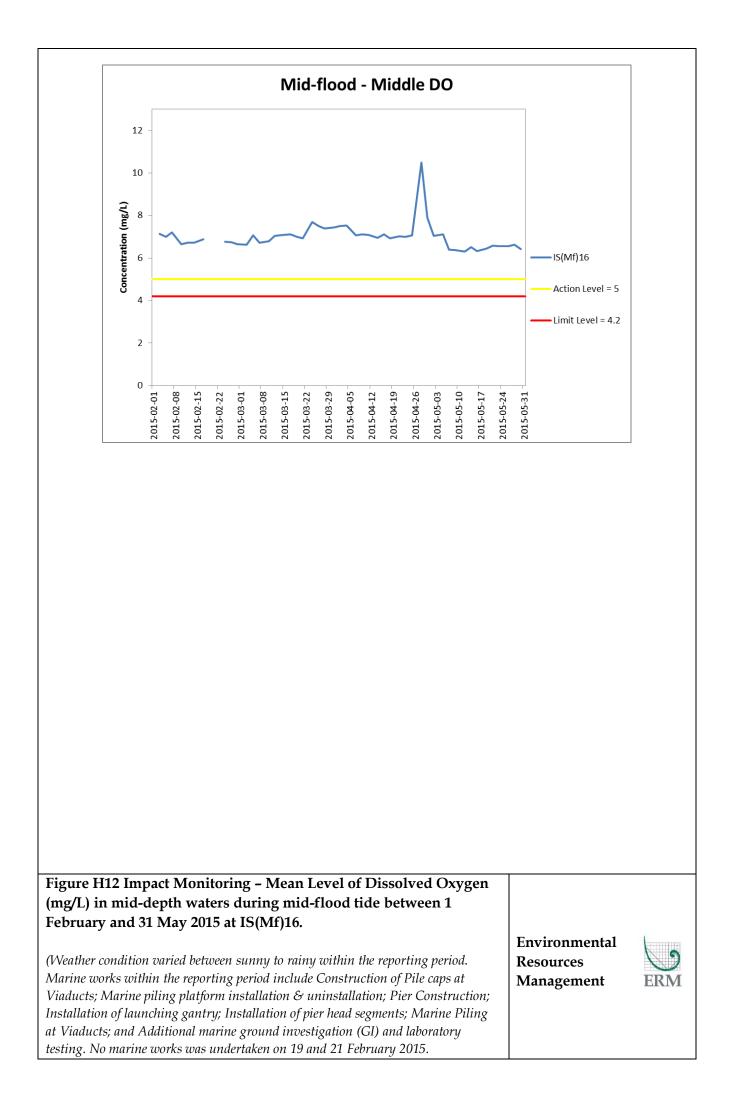


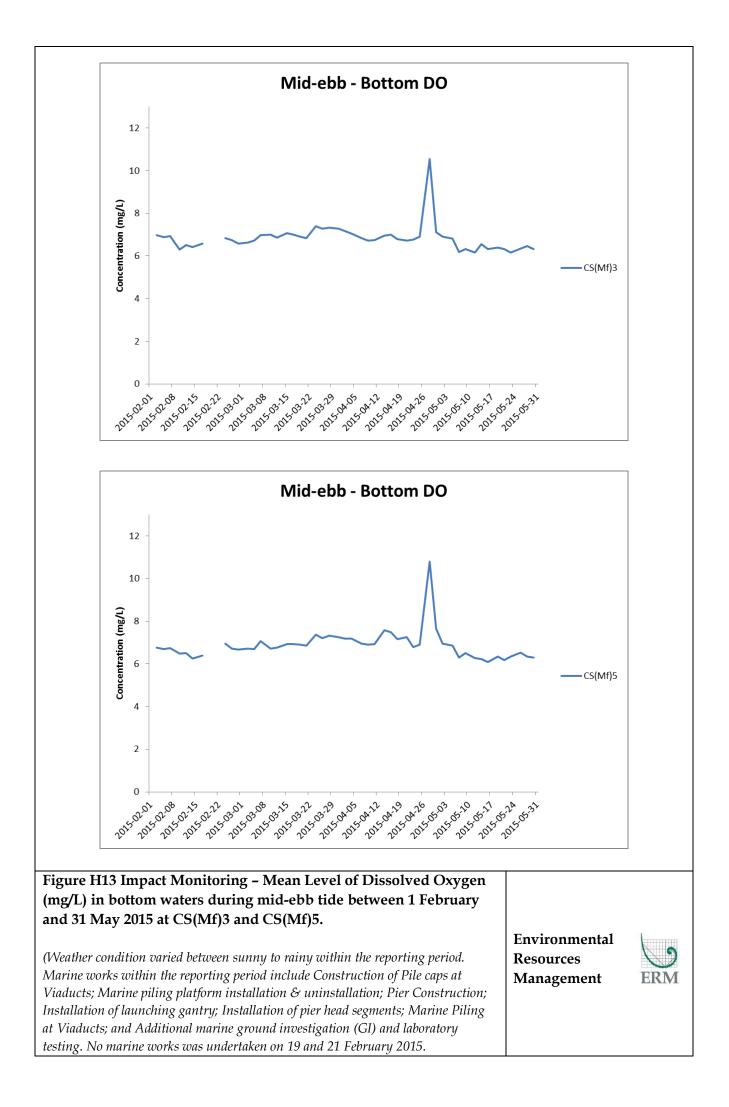












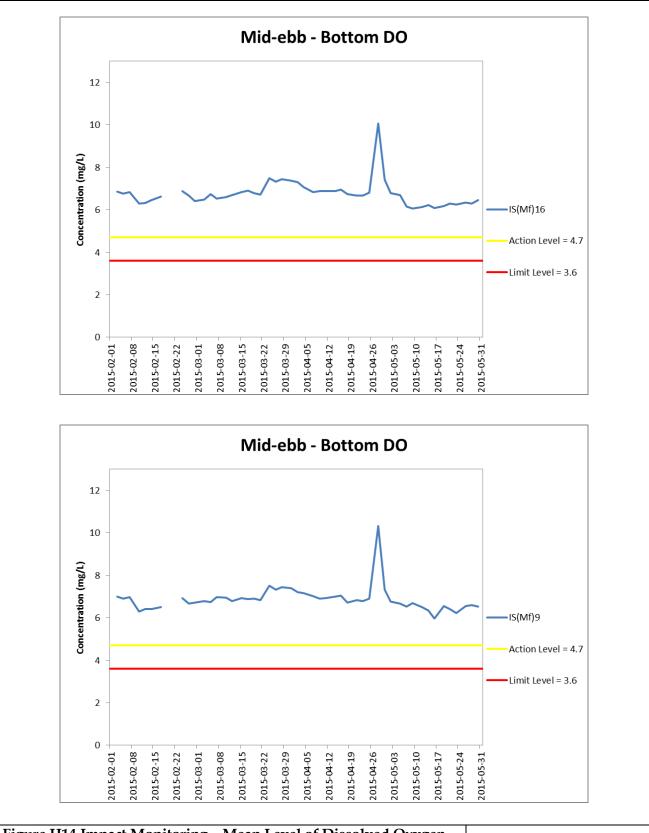


Figure H14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 February and 31 May 2015 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction of Pile caps at Viaducts; Marine piling platform installation & uninstallation; Pier Construction; Installation of launching gantry; Installation of pier head segments; Marine Piling at Viaducts; and Additional marine ground investigation (GI) and laboratory testing. No marine works was undertaken on 19 and 21 February 2015.



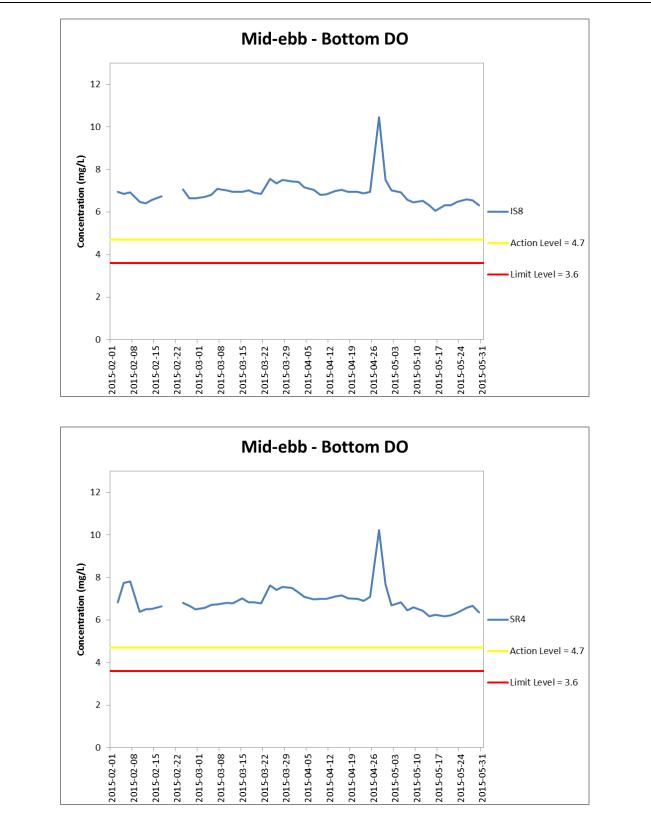
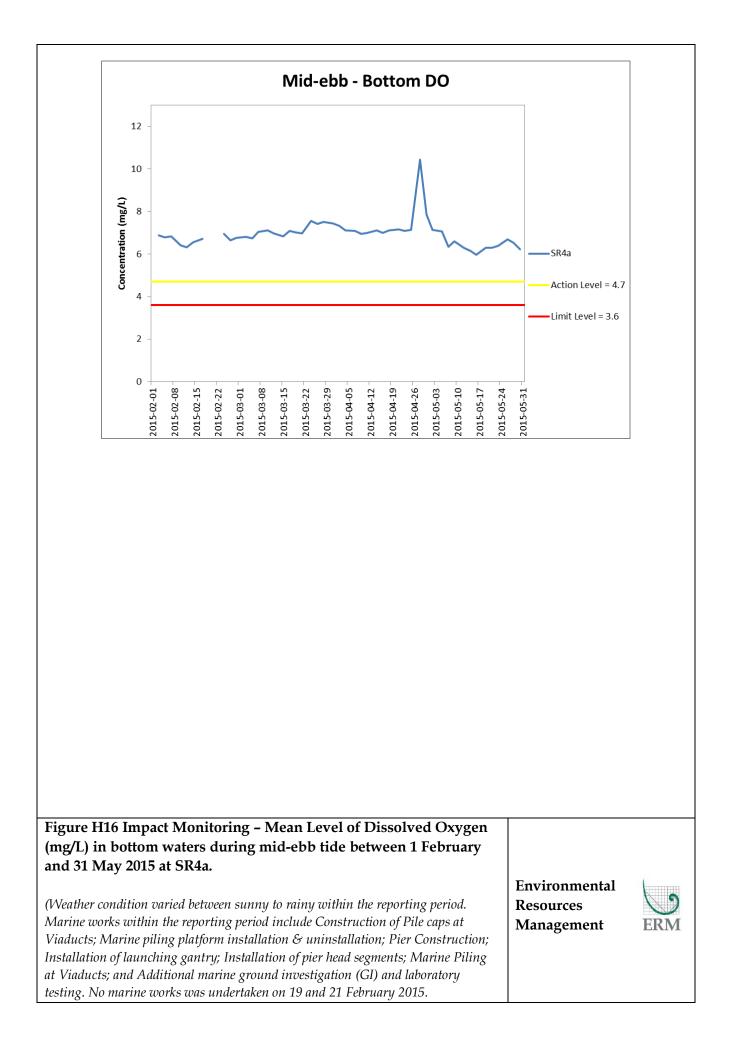
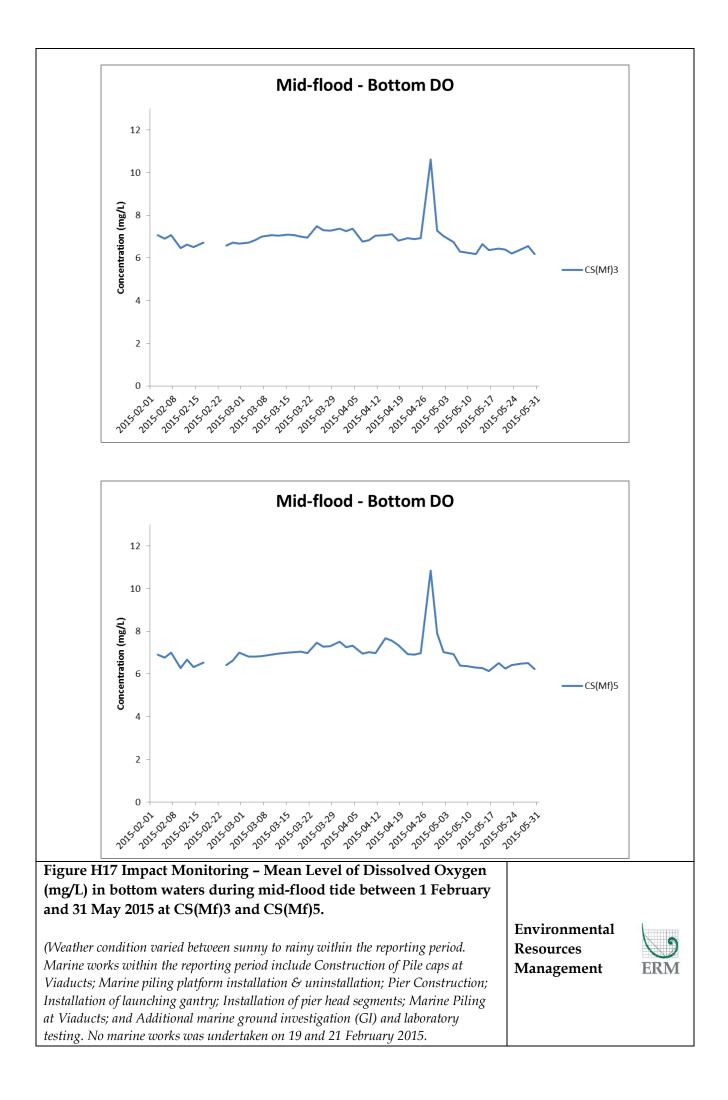


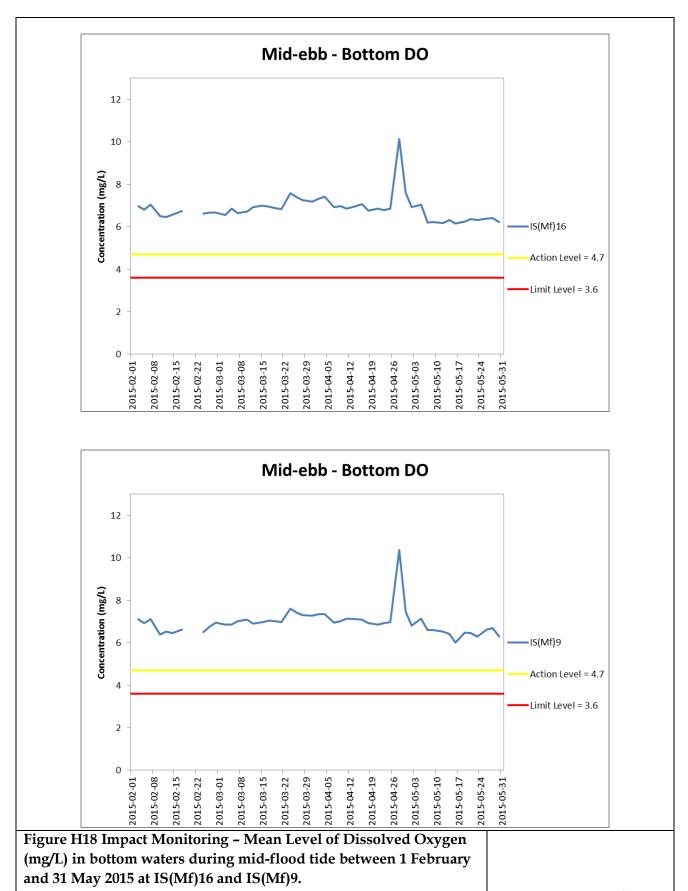
Figure H15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 February and 31 May 2015 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction of Pile caps at Viaducts; Marine piling platform installation & uninstallation; Pier Construction; Installation of launching gantry; Installation of pier head segments; Marine Piling at Viaducts; and Additional marine ground investigation (GI) and laboratory testing. No marine works was undertaken on 19 and 21 February 2015.



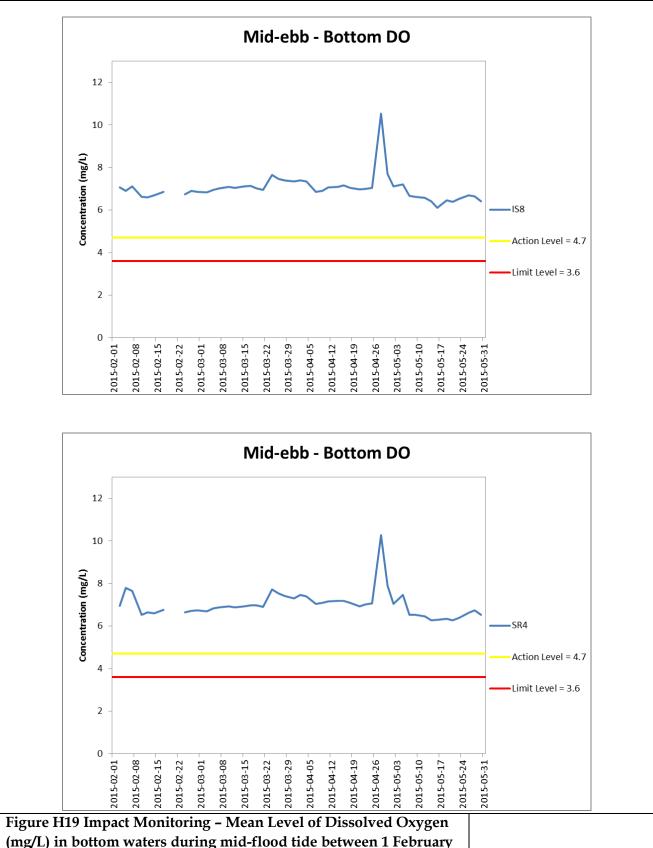






(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction of Pile caps at Viaducts; Marine piling platform installation & uninstallation; Pier Construction; Installation of launching gantry; Installation of pier head segments; Marine Piling at Viaducts; and Additional marine ground investigation (GI) and laboratory testing. No marine works was undertaken on 19 and 21 February 2015.

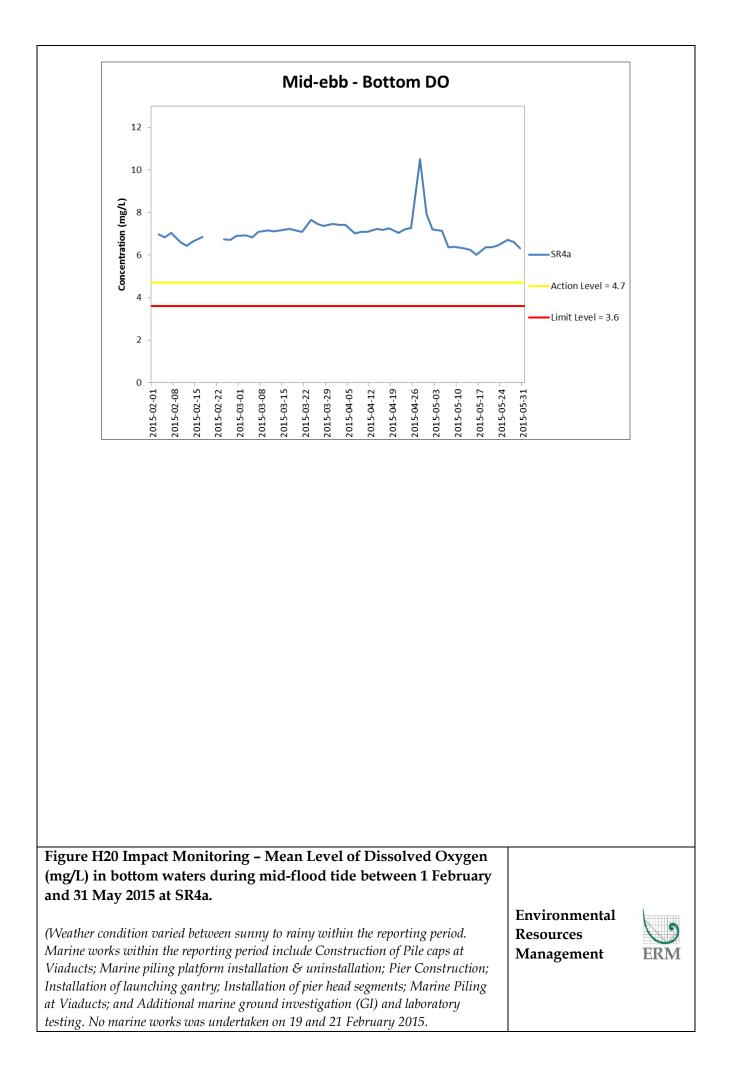


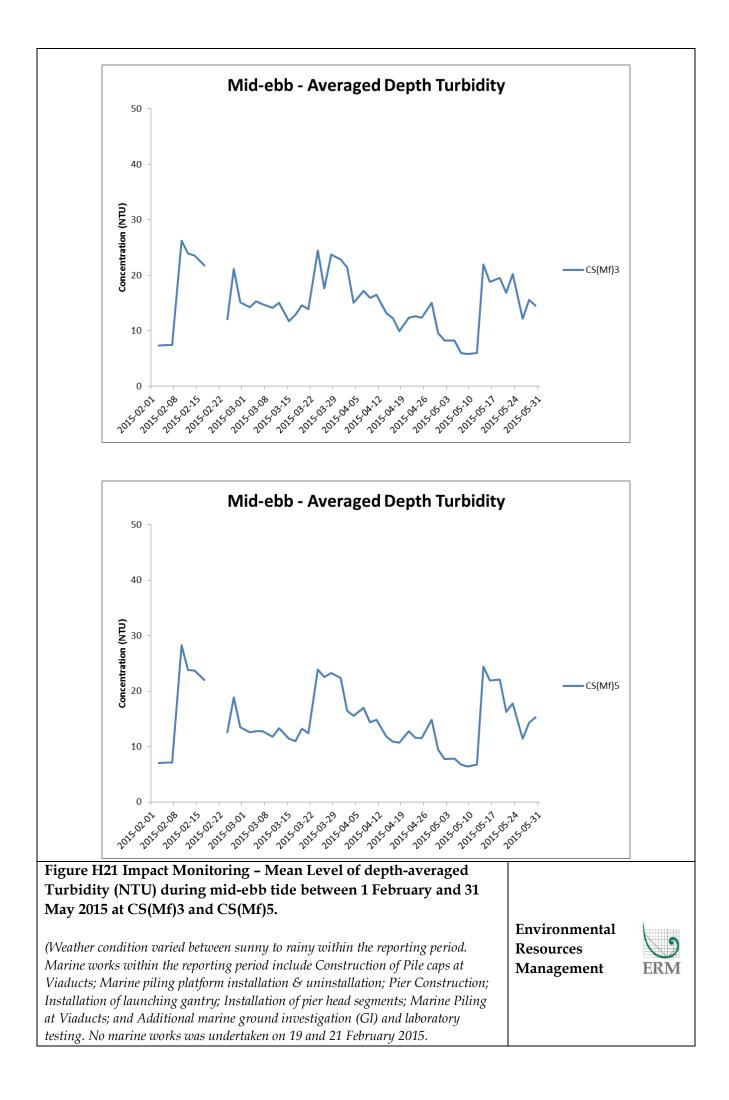


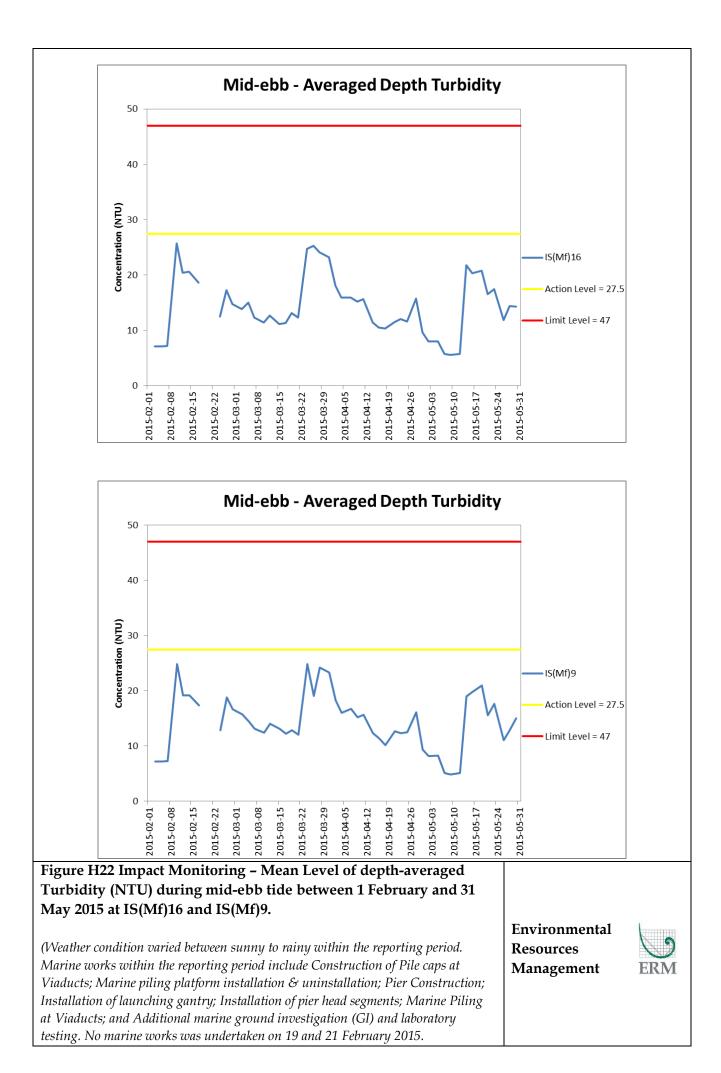
(mg/L) in bottom waters during mid-flood tide between 1 February and 31 May 2015 at IS8 and SR4.

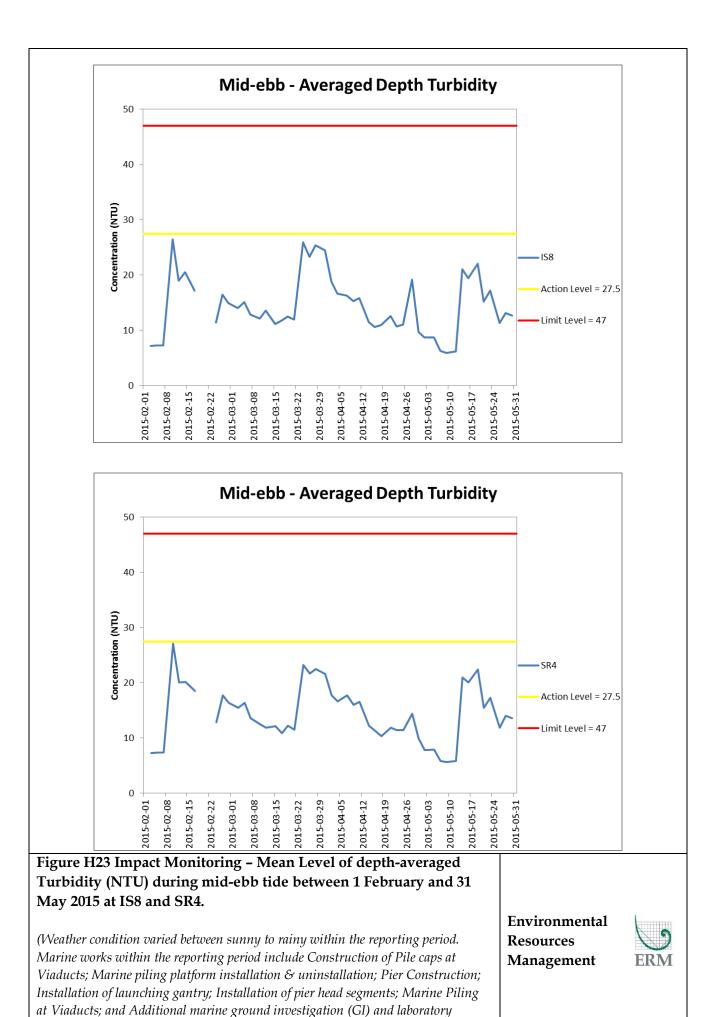
(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction of Pile caps at Viaducts; Marine piling platform installation & uninstallation; Pier Construction; Installation of launching gantry; Installation of pier head segments; Marine Piling at Viaducts; and Additional marine ground investigation (GI) and laboratory testing. No marine works was undertaken on 19 and 21 February 2015.



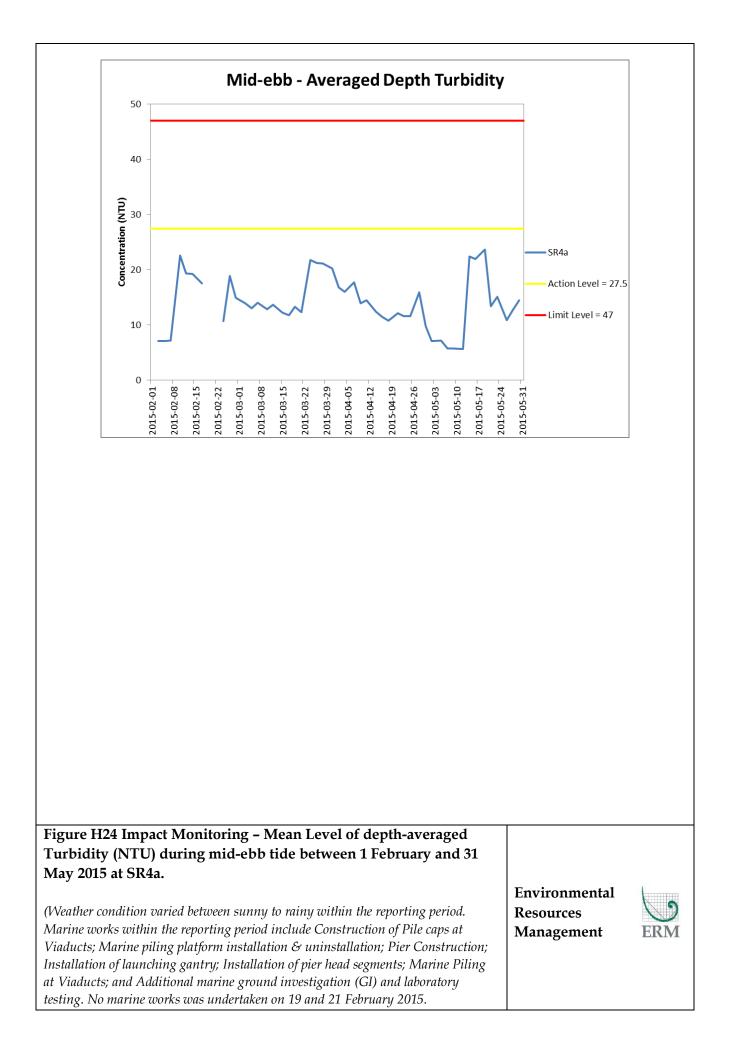


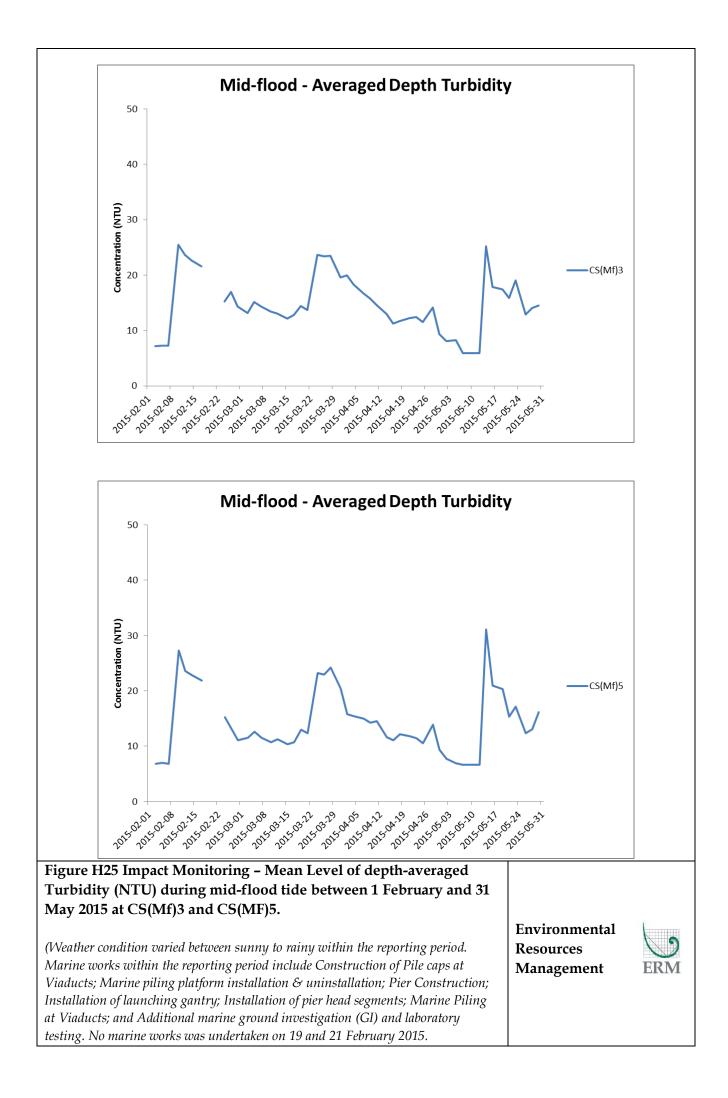


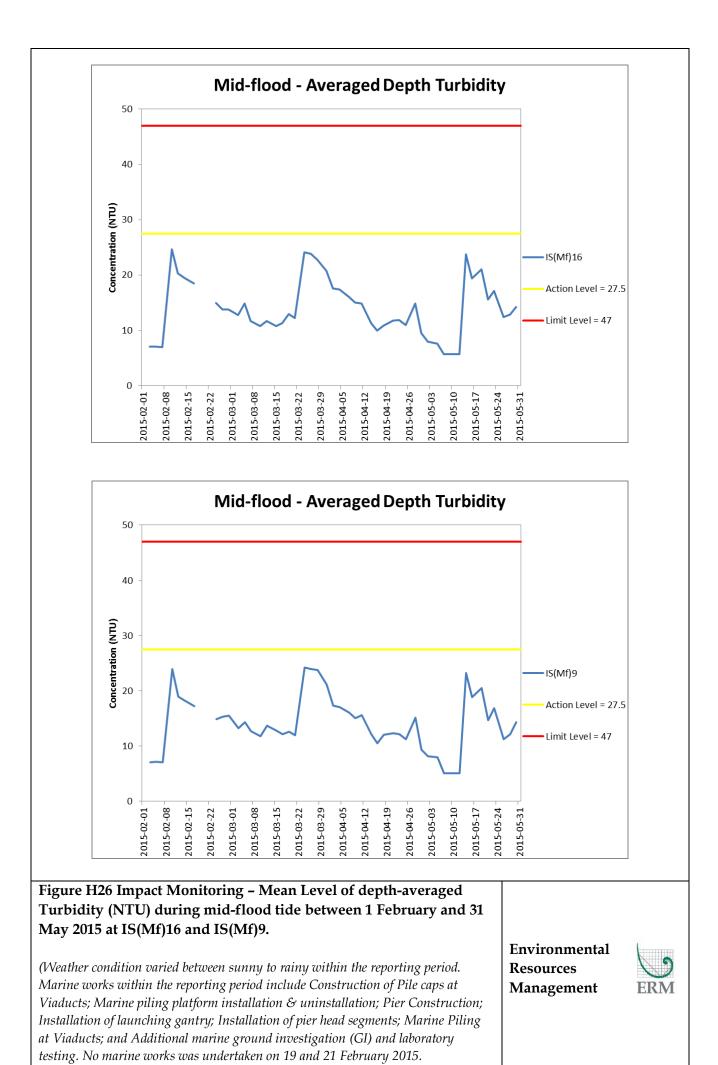


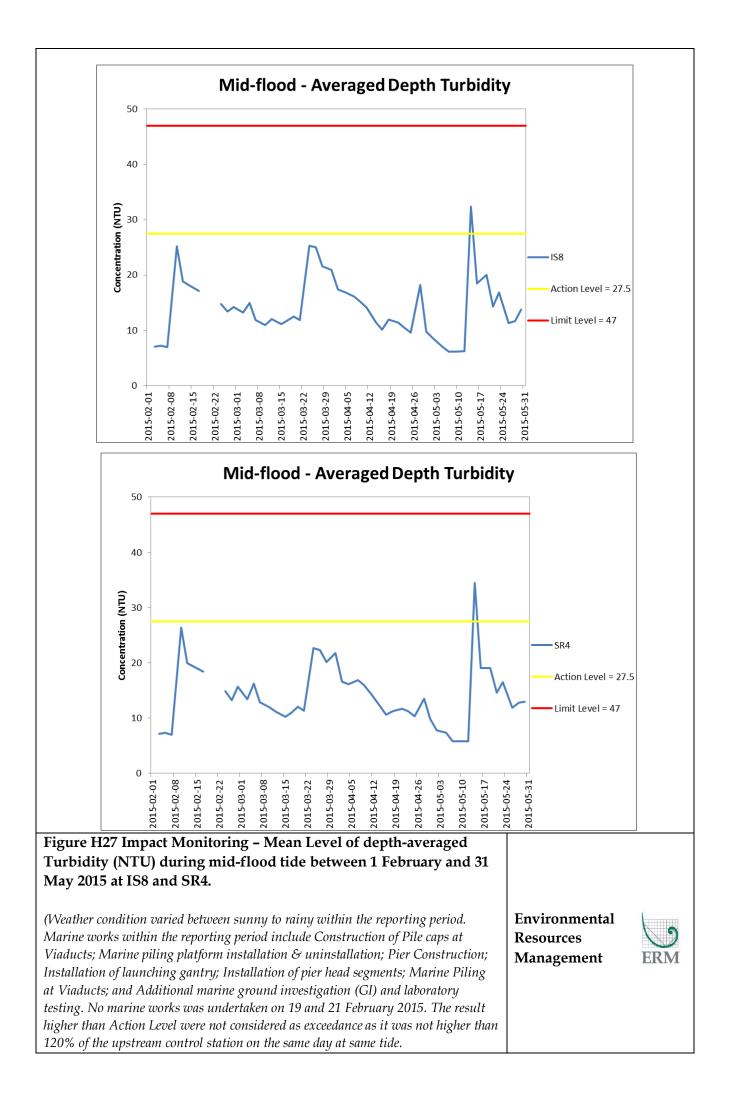


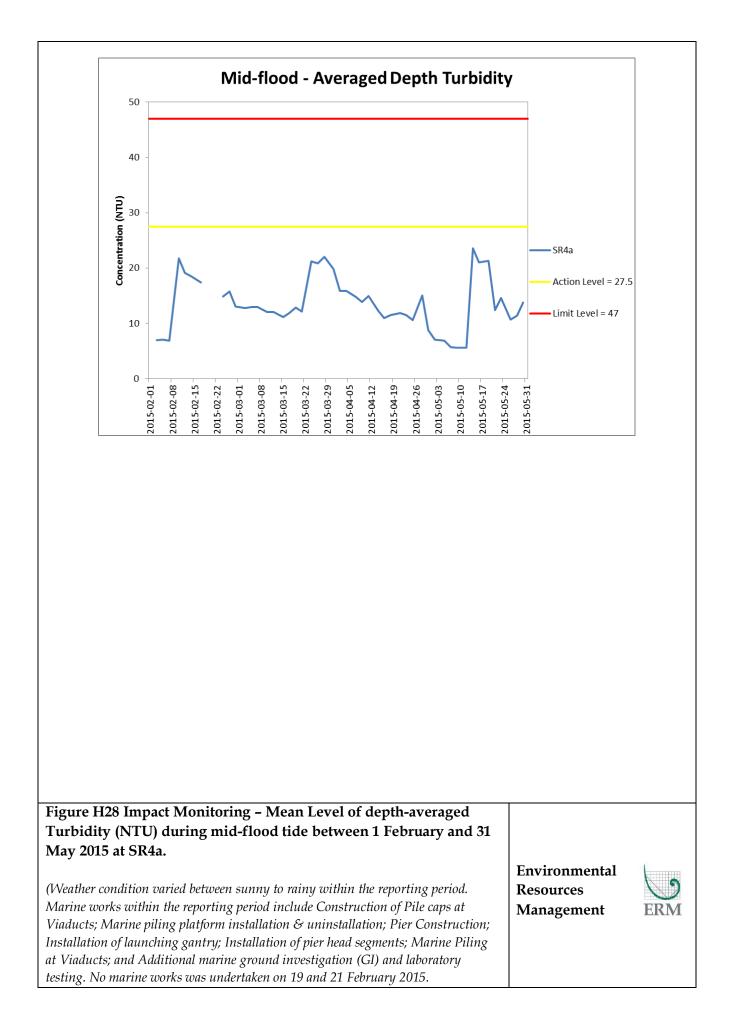
testing. No marine works was undertaken on 19 and 21 February 2015.

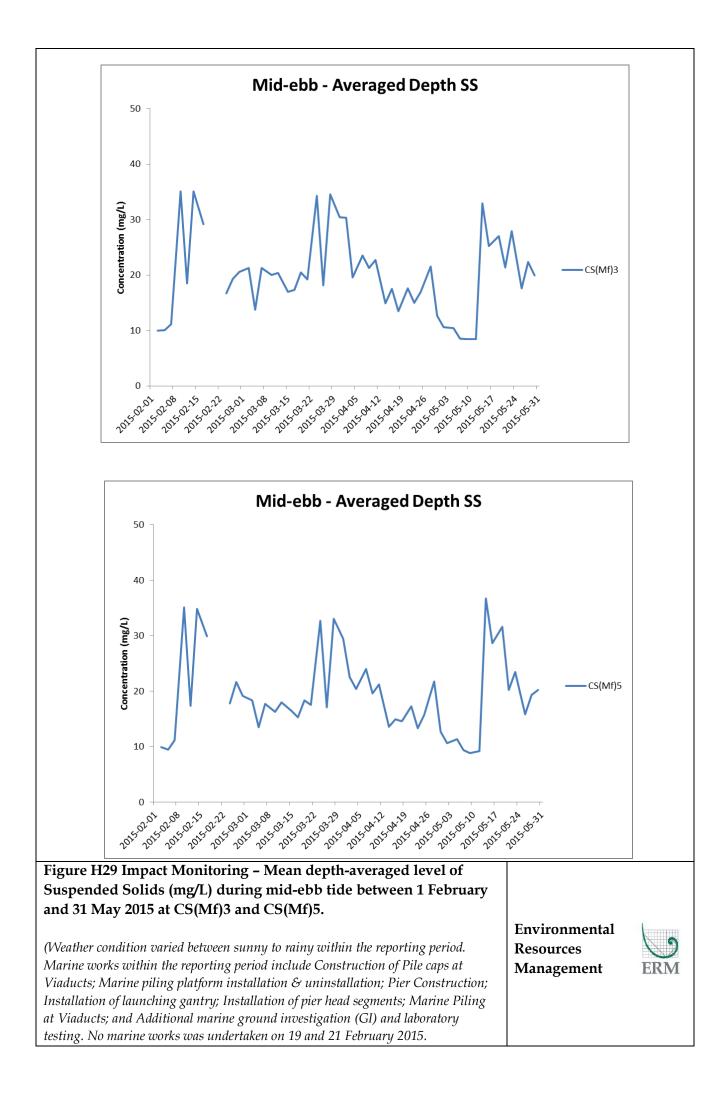


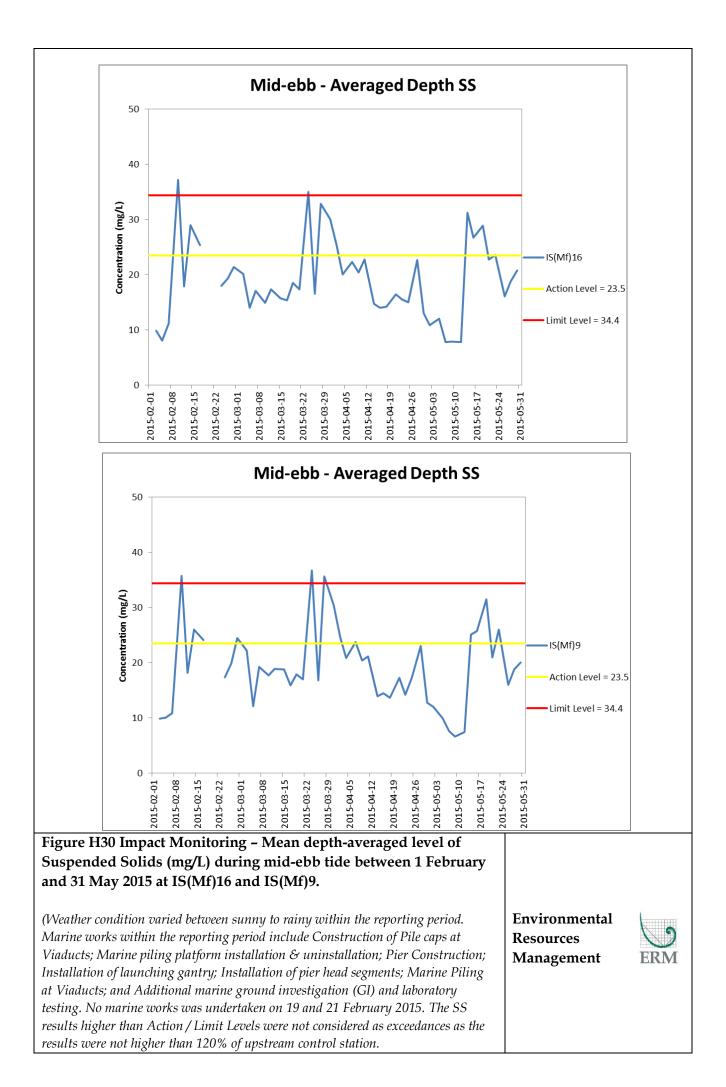


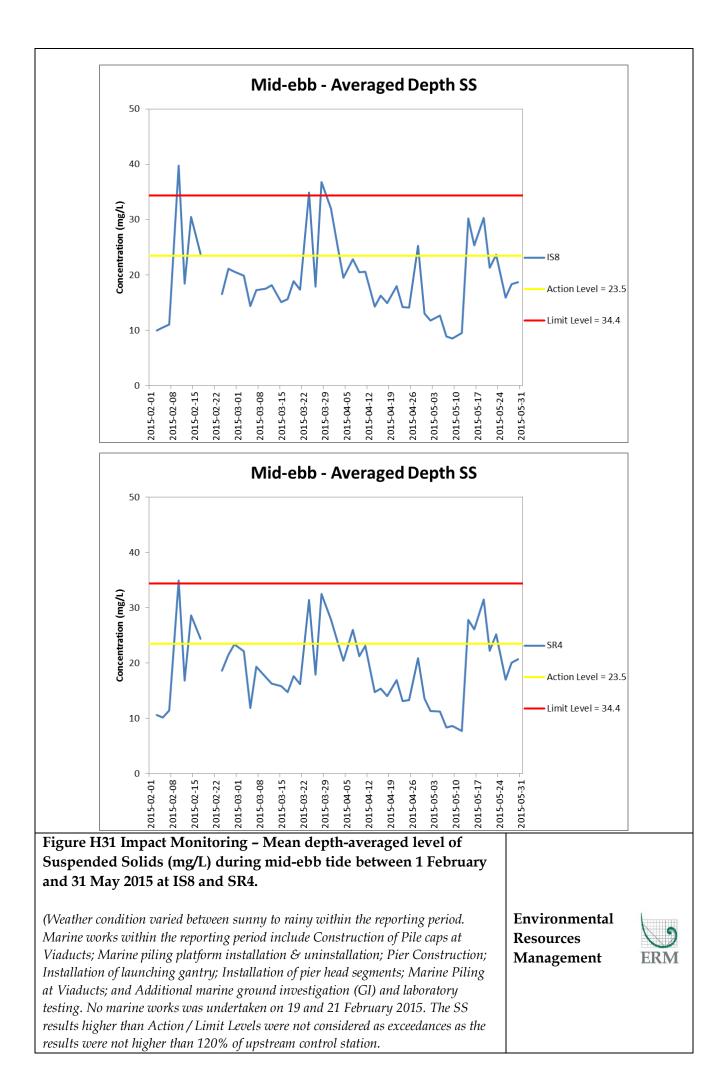


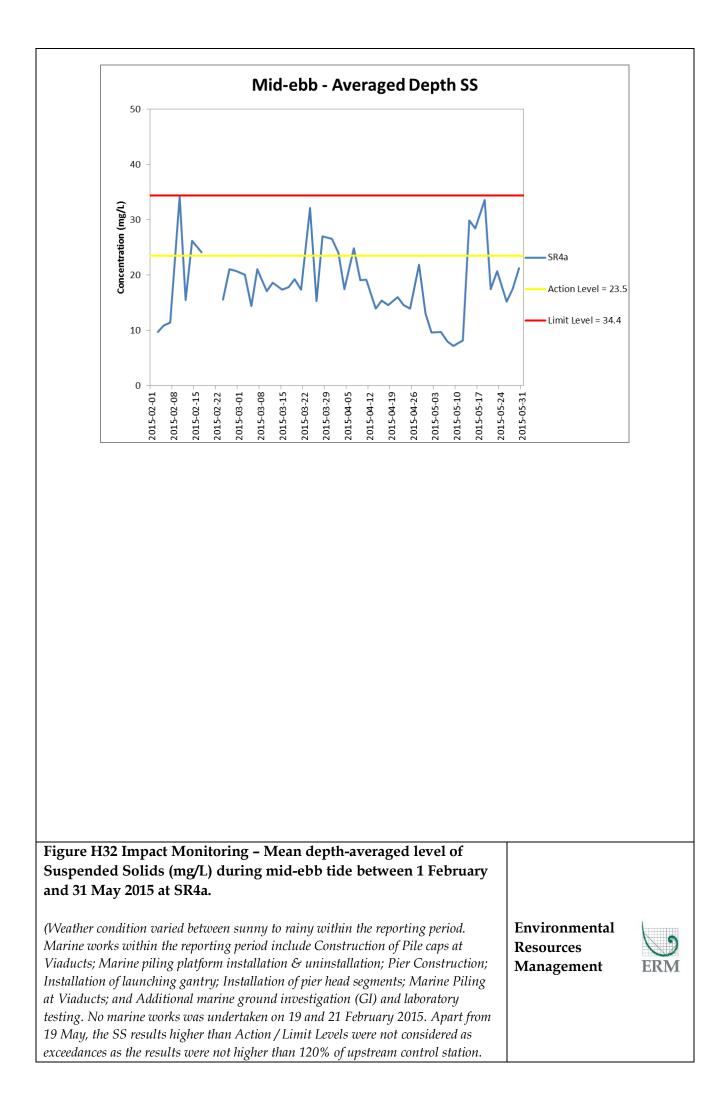


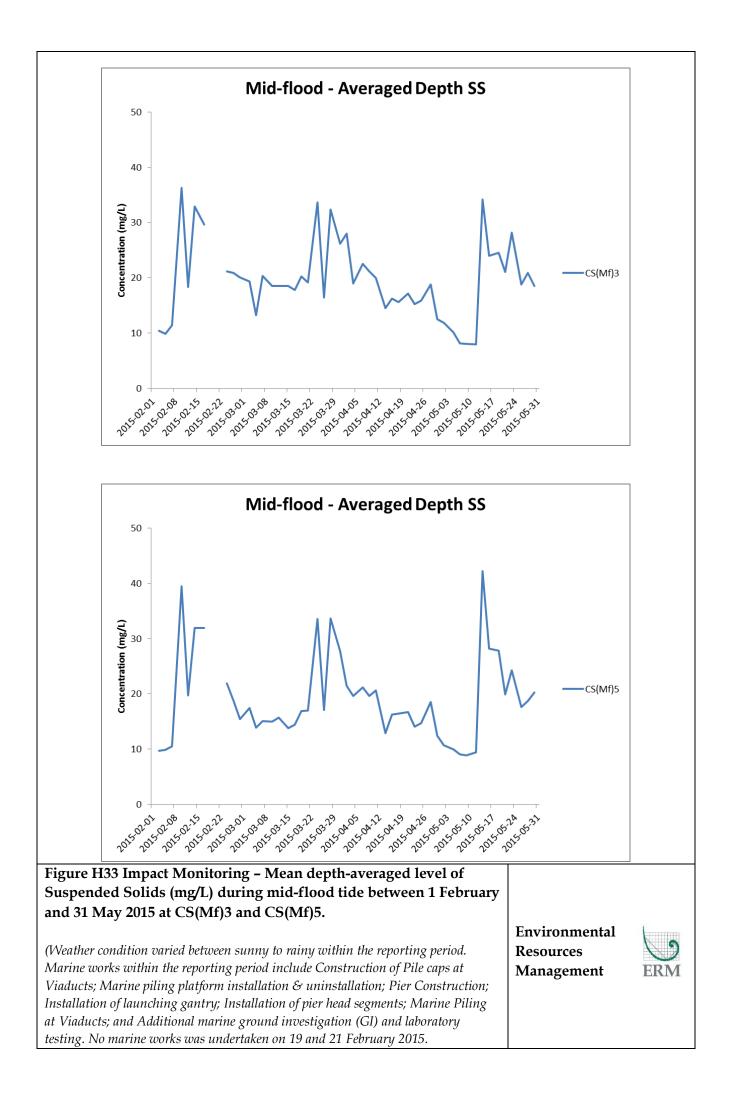


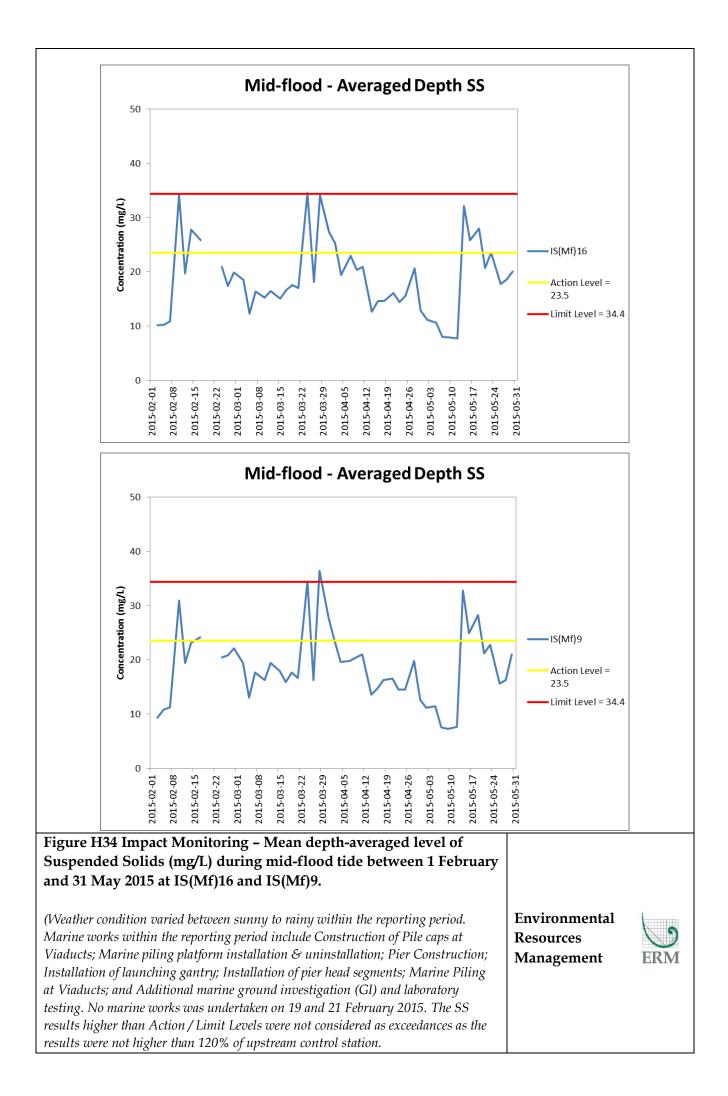


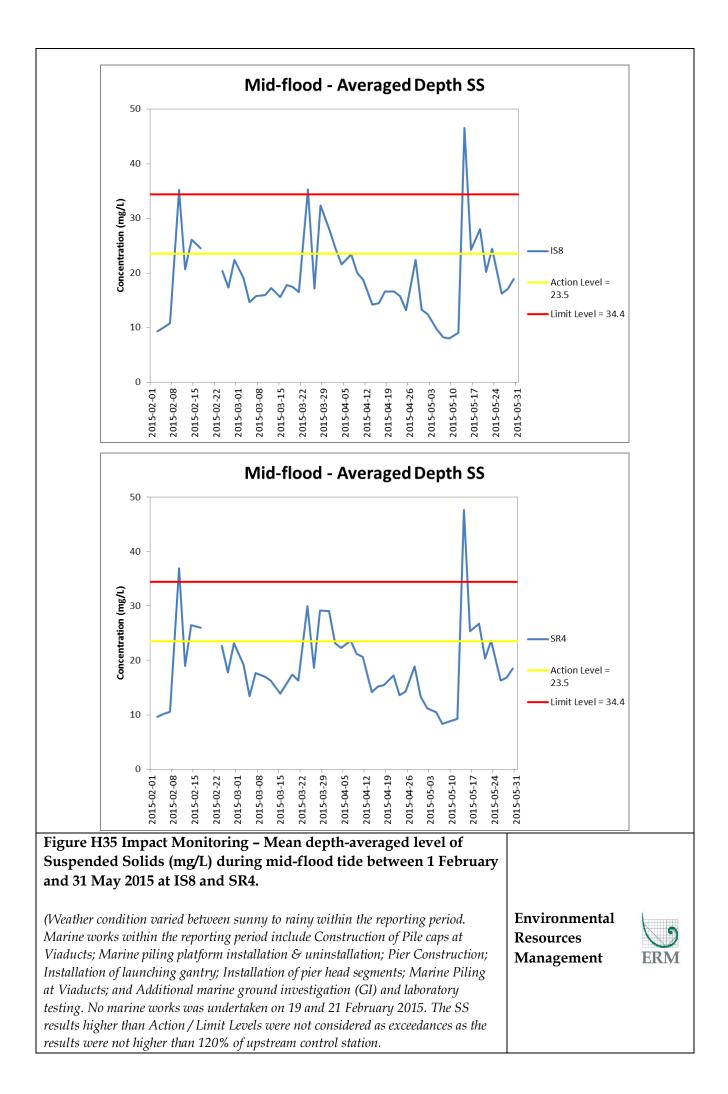


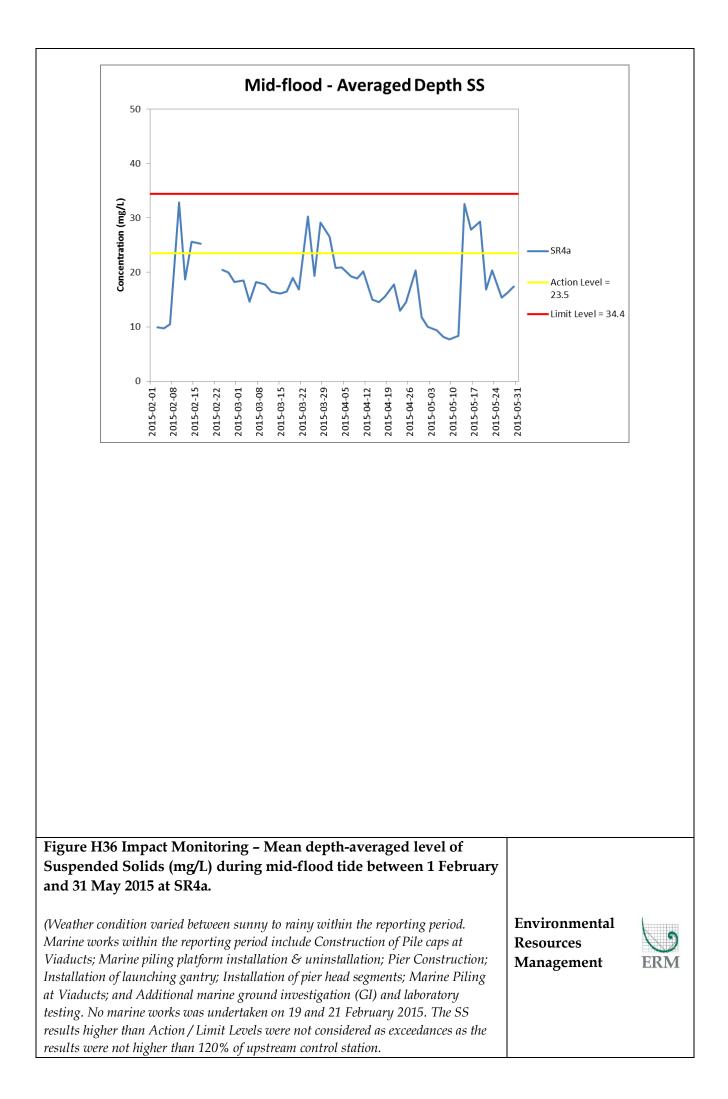












Appendix I

Impact Dolphin Monitoring Survey Results



CONTRACT NO. HY/2012/07 Hong Kong-Zhuhai-Macao Bridge Tuen Mun – Chek Lap Kok Link (Southern Connection Viaduct Section) Dolphin Quarterly Monitoring

6th Quarterly Progress Report (March-May 2015) submitted to Gammon Construction Limited

Submitted by Samuel K.Y. Hung, Ph.D., Hong Kong Cetacean Research Project

1 September 2015

1. Introduction

- 1.1. The Tuen Mun-Chek Lap Kok Link (TM-CLKL) comprises a 1.6 km long dual 2-lane viaduct section between the Hong Kong Boundary Crossing Facilities (HKBCF) and the North Lantau Highway and associated roads at Tai Ho. Gammon Construction Limited (hereinafter called the "Contractor") was awarded as the main contractor of "Contract No. HY/2012/07 Hong Kong-Zhuhai-Macao Bridge Tuen Mun-Chek Lap Kok Link Southern Connection Viaduct Section".
- 1.2. According to the updated Environmental Monitoring and Audit (EM&A) Manual (for TM-CLKL), monthly line-transect vessel surveys for Chinese White Dolphin should be conducted to cover the Northwest (NWL) and Northeast Lantau (NEL) survey areas as in AFCD annual marine mammal monitoring programme. However, as such surveys have been undertaken by the HKLR03 and HKBCF projects in the same areas (i.e. NWL and NEL), a combined monitoring approach is recommended by the Highways Department, that the TM-CLKL EM&A project can utilize the monitoring data collected by HKLR03 or HKBCF project to avoid any redundancy in monitoring effort. Such exemption for the dolphin monitoring will end upon the completion of the dolphin monitoring carried out by HKLR03 contract as well as the TM-CLKL Northern Connection Sub-Sea Tunnel Section (HY/2012/08)
- 1.3. In November 2013, the Director of Hong Kong Cetacean Research Project (HKCRP), Dr. Samuel Hung, has been appointed by Gammon Construction Limited as the dolphin specialist for the TM-CLKL Southern Viaduct Section EM&A project. He is responsible for the dolphin monitoring study, including the data collection on Chinese White Dolphins during the construction phase (i.e. impact period) of the TM-CLKL project in Northwest Lantau (NWL) and Northeast Lantau (NEL) survey areas.
- 1.4. During the construction period of HKLR, the dolphin specialist would be in charge of reviewing and collating information collected by HKLR03 dolphin monitoring programme to



examine any potential impacts of TM-CLKL construction works on the dolphins.

- 1.5. From the monitoring results, any changes in dolphin occurrence within the study area will be examined for possible causes, and appropriate actions and additional mitigation measures will be recommended as necessary.
- 1.6. This report is the sixth quarterly progress report under the TM-CLKL construction phase dolphin monitoring programme submitted to the Gammon Construction Limited, summarizing the results of the surveys findings during the period of March to May 2015, utilizing the survey data collected by HKLR03 project.

2. Monitoring Methodology

2.1. Vessel-based Line-transect Survey

2.1.1. According to the requirement of the updated EM&A manual, dolphin monitoring programme should cover all transect lines in NEL and NWL survey areas (see Figure 1) twice per month throughout the entire construction period. The co-ordinates of all transect lines conducted during the HKLR03 dolphin monitoring surveys are shown in Table 1.

| Line No. | | Easting | Northing | Line No. | | Easting | Northing |
|----------|-------------|---------|----------|----------|-------------|---------|----------|
| 1 | Start Point | 804671 | 814577 | 13 | Start Point | 816506 | 819480 |
| 1 | End Point | 804671 | 831404 | 13 | End Point | 816506 | 824859 |
| 2 | Start Point | 805475 | 815457 | 14 | Start Point | 817537 | 820220 |
| 2 | End Point | 805477 | 826654 | 14 | End Point | 817537 | 824613 |
| 3 | Start Point | 806464 | 819435 | 15 | Start Point | 818568 | 820735 |
| 3 | End Point | 806464 | 822911 | 15 | End Point | 818568 | 824433 |
| 4 | Start Point | 807518 | 819771 | 16 | Start Point | 819532 | 821420 |
| 4 | End Point | 807518 | 829230 | 16 | End Point | 819532 | 824209 |
| 5 | Start Point | 808504 | 820220 | 17 | Start Point | 820451 | 822125 |
| 5 | End Point | 808504 | 828602 | 17 | End Point | 820451 | 823671 |
| 6 | Start Point | 809490 | 820466 | 18 | Start Point | 821504 | 822371 |
| 6 | End Point | 809490 | 825352 | 18 | End Point | 821504 | 823761 |
| 7 | Start Point | 810499 | 820690 | 19 | Start Point | 822513 | 823268 |
| 7 | End Point | 810499 | 824613 | 19 | End Point | 822513 | 824321 |
| 8 | Start Point | 811508 | 820847 | 20 | Start Point | 823477 | 823402 |
| 8 | End Point | 811508 | 824254 | 20 | End Point | 823477 | 824613 |
| 9 | Start Point | 812516 | 820892 | 21 | Start Point | 805476 | 827081 |
| 9 | End Point | 812516 | 824254 | 21 | End Point | 805476 | 830562 |

| Table 1 Co-ordinates of transect lines conducted b | V HKI DO3 project |
|--|-------------------|
| | |



HK CETACEAN RESEARCH PROJECT 香港鯨豚研究計劃

| 10 | Start Point | 813525 | 820872 | 22 | Start Point | 806464 | 824033 |
|----|-------------|--------|--------|----|-------------|--------|--------|
| 10 | End Point | 813525 | 824657 | 22 | End Point | 806464 | 829598 |
| 11 | Start Point | 814556 | 818449 | 23 | Start Point | 814559 | 821739 |
| 11 | End Point | 814556 | 820992 | 23 | End Point | 814559 | 824768 |
| 12 | Start Point | 815542 | 818807 | | | | |
| 12 | End Point | 815542 | 824882 | | | | |

- 2.1.2. The HKLR03 survey team used standard line-transect methods (Buckland et al. 2001) to conduct the systematic vessel surveys, and followed the same technique of data collection that has been adopted over the last 16 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2013, 2014). For each monitoring vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) was used to make observations from the flying bridge area.
- 2.1.3. Two experienced observers (a data recorder and a primary observer) made up the on-effort survey team, and the survey vessel transited different transect lines at a constant speed of 13-15 km per hour. The data recorder searched with unaided eyes and filled out the datasheets, while the primary observer searched for dolphins and porpoises continuously through 7 x 50 *Fujinon* marine binoculars. Both observers searched the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). One to two additional experienced observers were available on the boat to work in shift (i.e. rotate every 30 minutes) in order to minimize fatigue of the survey team members. All observers were experienced in small cetacean survey techniques and identifying local cetacean species.
- 2.1.4. During on-effort survey periods, the survey team recorded effort data including time, positions (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance traveled in each series (a continuous period of search effort) with the assistance of a handheld GPS (*Garmin eTrex Legend*).
- 2.1.5. Data including time, position and vessel speed were also automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.
- 2.1.6. When dolphins were sighted, the survey team would end the survey effort, and immediately record the initial sighting distance and angle of the dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel was diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, and behavioural observations. The perpendicular distance (PSD) of the dolphin group to the transect line was later calculated from the initial sighting distance and angle.
- 2.1.7. Survey effort being conducted along the parallel transect lines that were perpendicular to the coastlines (as indicated in Figure 1) was labeled as "primary" survey effort, while the survey effort conducted along the connecting lines between parallel lines was labeled as "secondary" survey effort. According to HKCRP long-term dolphin monitoring data, encounter rates of Chinese white dolphins deduced from effort and sighting data collected



along primary and secondary lines were similar in NEL and NWL survey areas. Therefore, both primary and secondary survey effort were presented as on-effort survey effort in this report.

- 2.2. Photo-identification Work
- 2.2.1. When a group of Chinese White Dolphins were sighted during the line-transect survey, the HKLR03 survey team would end effort and approach the group slowly from the side and behind to take photographs of them. Every attempt was made to photograph every dolphin in the group, and even photograph both sides of the dolphins, since the colouration and markings on both sides may not be symmetrical.
- 2.2.2. A professional digital camera (*Canon* EOS 7D or 60D model), equipped with long telephoto lenses (100-400 mm zoom), were available on board for researchers to take sharp, close-up photographs of dolphins as they surfaced. The images were shot at the highest available resolution and stored on Compact Flash memory cards for downloading onto a computer.
- 2.2.3. All digital images taken in the field were first examined, and those containing potentially identifiable individuals were sorted out. These photographs would then be examined in greater detail, and were carefully compared to the existing Chinese White Dolphin photo-identification catalogue maintained by HKCRP since 1995.
- 2.2.4. Chinese White Dolphins can be identified by their natural markings, such as nicks, cuts, scars and deformities on their dorsal fin and body, and their unique spotting patterns were also used as secondary identifying features (Jefferson 2000).
- 2.2.5. All photographs of each individual were then compiled and arranged in chronological order, with data including the date and location first identified (initial sighting), re-sightings, associated dolphins, distinctive features, and age classes entered into a computer database.

2.3. Data Analysis

- 2.3.1. Distribution Analysis The line-transect survey data was integrated with the Geographic Information System (GIS) in order to visualize and interpret different spatial and temporal patterns of dolphin distribution using sighting positions. Location data of dolphin groups were plotted on map layers of Hong Kong using a desktop GIS (ArcView[©] 3.1) to examine their distribution patterns in details. The dataset was also stratified into different subsets to examine distribution patterns of dolphin groups with different categories of group sizes, young calves and activities.
- 2.3.2. Encounter rate analysis Encounter rates of Chinese white dolphins (number of on-effort sightings per 100 km of survey effort, and total number of dolphins sighted on-effort per 100 km of survey effort) were calculated in NEL and NWL survey areas in relation to the amount of survey effort conducted during each month of monitoring survey. Only data



collect under Beaufort 3 or below condition would be used for the encounter rate analyses. Dolphin encounter rates were calculated in two ways for comparisons with the HZMB baseline monitoring results as well as to AFCD long-term marine mammal monitoring results.

Firstly, for the comparison with the HZMB baseline monitoring results, the encounter rates were calculated using primary survey effort alone. The average encounter rate of sightings (STG) and average encounter rate of dolphins (ANI) were deduced based on the encounter rates from six events during the present quarter (i.e. six sets of line-transect surveys in North Lantau), which was also compared with the one deduced from the six events during the baseline period (i.e. six sets of line-transect surveys in North Lantau).

Secondly, the encounter rates were calculated using both primary and secondary survey effort collected under Beaufort 3 or below condition as in AFCD long-term monitoring study. The encounter rate of sightings and dolphins were deduced by dividing the total number of on-effort sightings (STG) and total number of dolphins (ANI) by the amount of survey effort for the present quarterly period.

Quantitative grid analysis on habitat use – To conduct quantitative grid analysis of habitat 2.3.3. use, positions of on-effort sightings of Chinese White Dolphins collected during the quarterly impact phase monitoring period were plotted onto 1-km² grids among NWL and NEL survey areas on GIS. Sighting densities (number of on-effort sightings per km^2) and dolphin densities (total number of dolphins from on-effort sightings per km²) were then calculated for each 1 km by 1 km grid with the aid of GIS. Sighting density grids and dolphin density grids were then further normalized with the amount of survey effort conducted within each grid. The total amount of survey effort spent on each grid was calculated by examining the survey coverage on each line-transect survey to determine how many times the grid was surveyed during the study period. For example, when the survey boat traversed through a specific grid 50 times, 50 units of survey effort were counted for that grid. With the amount of survey effort calculated for each grid, the sighting density and dolphin density of each grid were then normalized (i.e. divided by the unit of survey effort).

The newly-derived unit for sighting density was termed SPSE, representing the number of on-effort <u>s</u>ightings <u>p</u>er 100 units of <u>s</u>urvey <u>effort</u>. In addition, the derived unit for actual dolphin density was termed DPSE, representing the number of <u>d</u>olphins <u>p</u>er 100 units of <u>s</u>urvey <u>effort</u>. Among the 1-km² grids that were partially covered by land, the percentage of sea area was calculated using GIS tools, and their SPSE and DPSE values were adjusted accordingly. The following formulae were used to estimate SPSE and DPSE in each 1-km² grid within the study area:

SPSE = ((S / E) x 100) / SA% DPSE = ((D / E) x 100) / SA%

where S = total number of on-effort sightings D = total number of dolphins from on-effort sightings E = total number of units of survey effort SA% = percentage of sea area



- 2.3.4. Behavioural analysis When dolphins were sighted during vessel surveys, their behaviour was observed. Different activities were categorized (i.e. feeding, socializing, traveling, and milling/resting) and recorded on sighting datasheets. This data was then input into a separate database with sighting information, which can be used to determine the distribution of behavioural data with a desktop GIS. Distribution of sightings of dolphins engaged in different activities and behaviours would then be plotted on GIS and carefully examined to identify important areas for different activities of the dolphins.
- 2.3.5. Ranging pattern analysis Location data of individual dolphins that occurred during the 3-month impact phase monitoring period were obtained from the dolphin sighting database and photo-identification catalogue. To deduce home ranges for individual dolphins using the fixed kernel methods, the program Animal Movement Analyst Extension, was loaded as an extension with ArcView[©] 3.1 along with another extension Spatial Analyst 2.0. Using the fixed kernel method, the program calculated kernel density estimates based on all sighting positions, and provided an active interface to display kernel density plots. The kernel estimator then calculated and displayed the overall ranging area at 95% UD level.

3. Monitoring Results

- 3.1. Summary of survey effort and dolphin sightings
- 3.1.1. During the period of March to May 2015, six sets of systematic line-transect vessel surveys were conducted under the HKLR03 monitoring works to cover all transect lines in NWL and NEL survey areas twice per month.
- 3.1.2. From these HKLR03 surveys, a total of 899.81 km of survey effort was collected, with 97.7% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility). Among the two areas, 344.55 km and 555.26 km of survey effort were conducted in NEL and NWL survey areas respectively.
- 3.1.3. The total survey effort conducted on primary lines was 655.32 km, while the effort on secondary lines was 244.49 km. Survey effort conducted on both primary and secondary lines were considered as on-effort survey data. Summary table of the survey effort is shown in Appendix I.
- 3.1.4. During the six sets of HKLR03 monitoring surveys in March to May 2015, a total of seven groups of 25 Chinese White Dolphins were sighted. Four of the seven dolphin sightings were made during on-effort search. Two of the four on-effort sightings were made on primary lines, while the other two were made on secondary lines. In this quarterly period, all dolphin groups were sighted in NWL, while none of them were sighted in NEL. A summary table of the dolphin sightings is shown in Appendix II.



- 3.2. Distribution
- 3.2.1. Distribution of dolphin sightings made during monitoring surveys in March to May 2015 is shown in Figure 1. These sightings made in the present quarter were scattered to the western end of the NWL survey area, with no particular concentration (Figure 1). No dolphin was sighted at all in NEL survey area.
- 3.2.2. Notably, none of the dolphin groups were sighted in the vicinity of TMCLKL southern viaduct or northern landfall section, as well as the HKLR03/HKBCF reclamation sites (Figure 1). However, a lone individual was sighted adjacent to the HKLR09 alignment (Figure 1).
- 3.2.3. Sighting distribution of the present impact phase monitoring period (March to May 2015) was compared to the one during the baseline monitoring period (September to November 2011). In the present quarter, dolphins have completely avoided the NEL region, which was in stark contrast to their frequent occurrence around the Brothers Islands, near Shum Shui Kok and in the vicinity of HKBCF reclamation site during the baseline period (Figure 1). The nearly complete abandonment of NEL region by the dolphins has been consistently recorded in the past quarters, which has resulted in extremely low to zero dolphin encounter rate in this area.
- 3.2.4. In NWL survey area, dolphin occurrence was also drastically different between the baseline and impact phase quarters. During the present impact monitoring period, much fewer dolphins occurred throughout this survey area than during the baseline period, when many of the dolphin sightings were concentrated between Lung Kwu Chau and Black Point, around Sha Chau, near Pillar Point and to the west of the Chek Lap Kok Airport (Figure 1).
- 3.2.5. Another comparison in dolphin distribution was made between the three quarterly periods of spring months in 2013, 2014 and 2015 (Figure 2). Among the three spring periods, no dolphin sighting was made in NEL in 2014 and 2015, while there were a few sightings made there in 2012 (Figure 2). The near absence of dolphins in this quarter in NEL was probably more related to the seasonal occurrence that has been consistently recorded in the past.
- 3.2.6. On the other hand, dramatic changes in dolphin distribution in NWL waters have observed in the spring months during the three-year period. In 2013, dolphin regularly occurred throughout the NWL survey area, with higher concentration around Sha Chau and Lung Kwu Chau as well as near Black Point. In 2014, dolphin still occurred around Lung Kwu Chau at a high level, but less frequently in the middle portion of North Lantau region. In 2014, they rarely occurred in NWL survey area with scattered sightings without any particular concentration. The temporal trend indicated that dolphin usage in the NWL region has greatly diminished during the spring months of the past few years.

3.3. Encounter rate

3.3.1. During the present quarterly period, the encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data from the primary transect lines under favourable conditions (Beaufort 3 or below) for each set of the HKLR03 surveys in



NEL and NWL are shown in Table 2. The average encounter rates deduced from the six sets of HKLR03 surveys were also compared with the ones deduced from the baseline monitoring period (September – November 2011) (Table 3).

 Table 2.
 Dolphin encounter rates (sightings per 100 km of survey effort) during March-May 2015

| SURVEY AREA | DOLPHIN MONITORING DATES | Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort) | Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort) | |
|----------------|-----------------------------|--|--|--|
| | | Primary Lines Only | Primary Lines Only | |
| | Set 1 (4 & 11 Mar 2015) | 0.00 | 0.00 | |
| | Set 2 (17 & 26 Mar 2015) | 0.00 | 0.00 | |
| Northeast | Set 3 (8 & 10 Apr 2015) | 0.00 | 0.00 | |
| Lantau | Set 4 (17 & 22 Apr 2015) | 0.00 | 0.00 | |
| | Set 5 (4 & 8 May 2015) | 0.00 | 0.00 | |
| | Set 6 (14 & 18 May 2015) | 0.00 | 0.00 | |
| | Set 1 (4 & 11 Mar 2015) | 1.42 | 9.93 | |
| | Set 2 (17 & 26 Mar 2015) | 0.00 | 0.00 | |
| Northwest | Set 3 (8 & 10 Apr 2015) | 1.40 | 4.20 | |
| Lantau | Set 4 (17 & 22 Apr 2015) | 0.00 | 0.00 | |
| | Set 5 (4 & 8 May 2015) | 0.00 | 0.00 | |
| | Set 6 (14 & 18 May 2015) | 0.00 | 0.00 | |

Table 3. Comparison of average dolphin encounter rates from impact monitoring period (March-May 2015) and baseline monitoring period (September – November 2011) (Note: encounter rates deduced from the baseline monitoring period have been recalculated based only on survey effort and on-effort sighting data made along the primary transect lines under favourable conditions; ± denotes the standard deviation of the average encounter rates)

| | Encounter i | rate (STG) | Encounter rate (ANI) | | |
|------------------|-------------------------|----------------------|---|------------------|--|
| | (no. of on-effort dolph | in sightings per 100 | (no. of dolphins from all on-effort sightings | | |
| | km of surve | ey effort) | per 100 km o | f survey effort) | |
| | March-May September - | | March-May | September - | |
| | 2015 | November 2011 | 2015 | November 2011 | |
| Northeast Lantau | 0.00 | 6.00 ± 5.05 | 0.00 | 22.19 ± 26.81 | |
| Northwest Lantau | 0.47 ± 0.73 | 9.85 ± 5.85 | 2.36 ± 4.07 | 44.66 ± 29.85 | |

3.3.2. To facilitate the comparison with the AFCD long-term monitoring results, the encounter rates were also calculated for the present quarter using both primary and secondary survey effort. The encounter rates of sightings (STG) and dolphins (ANI) in NWL were 0.75 sightings and 3.91 dolphins per 100 km of survey effort respectively, while the encounter



rates of sightings (STG) and dolphins (ANI) in NEL were both nil for this quarter.

- 3.3.3. In NEL, the average dolphin encounter rates (both STG and ANI) in the present three-month impact monitoring period were zero, and such low occurrence of dolphins in NEL have been consistently recorded in the past nine quarters (Table 4). It is a serious concern that dolphin occurrence in NEL in the nine quarters (0.0-1.0 for ER(STG) and 0.0-3.9 for ER(ANI)) have been exceptionally low when compared to the baseline period (Table 4). Dolphins have almost vacated from NEL waters since January 2014, with only one group of four dolphins sighted since then.
- 3.3.4. Moreover, the average dolphin encounter rates (STG and ANI) in NWL during the present impact phase monitoring period were also much lower (reductions of 95.2% and 94.7% respectively) than the ones recorded in the 3-month baseline period, indicating a dramatic decline in dolphin usage of this survey area during the present impact phase period (Table 5).
- 3.3.5. Even within the same spring quarters, the dolphin encounter rates in NWL during spring 2015 were small fractions of the ones recorded in spring 2013 and 2014 (Table 5).

Table 4. Comparison of average dolphin encounter rates in Northeast Lantau survey area from all quarters of HKLR03 impact monitoring period and baseline monitoring period (September-November 2011) (Note: encounter rates deduced from the baseline monitoring period have been recalculated based only on survey effort and on-effort sighting data made along the primary transect lines under favourable conditions; the encounter rates in spring months were highlighted in blue; ± denotes the standard deviation of the average encounter rates)

| | Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort) | Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort) |
|--------------------------------------|--|---|
| September-November 2011 (Baseline) | 6.00 ± 5.05 | 22.19 ± 26.81 |
| December 2012-February 2013 (Impact) | 3.14 ± 3.21 | 6.33 ± 8.64 |
| March-May 2013 (Impact) | 0.42 ± 1.03 | 0.42 ± 1.03 |
| June-August 2013 (Impact) | 0.88 ± 1.36 | 3.91 ± 8.36 |
| September-November 2013 (Impact) | 1.01 ± 1.59 | 3.77 ± 6.49 |
| December 2013-February 2014 (Impact) | 0.45 ± 1.10 | 1.34 ± 3.29 |
| March-May 2014 (Impact) | 0.00 | 0.00 |
| June-August 2014 (Impact) | 0.42 ± 1.04 | 1.69 ± 4.15 |
| September-November 2014 (Impact) | 0.00 | 0.00 |
| December 2014-February 2015 (Impact) | 0.00 | 0.00 |
| March-May 2015 (Impact) | 0.00 | 0.00 |



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Table 5. Comparison of average dolphin encounter rates in Northwest Lantau survey area from all quarters of HKLR03 impact monitoring period and baseline monitoring period (September-November 2011) (Note: encounter rates deduced from the baseline monitoring period have been recalculated based only on survey effort and on-effort sighting data made along the primary transect lines under favourable conditions; the encounter rates in spring months were highlighted in blue; ± denotes the standard deviation of the average encounter rates)

| | Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort) | Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort) |
|--------------------------------------|--|---|
| September-November 2011 (Baseline) | 9.85 ± 5.85 | 44.66 ± 29.85 |
| December 2012-February 2013 (Impact) | 8.36 ± 5.03 | 35.90 ± 23.10 |
| March-May 2013 (Impact) | 7.75 ± 3.96 | 24.23 ± 18.05 |
| June-August 2013 (Impact) | 6.56 ± 3.68 | 27.00 ± 18.71 |
| September-November 2013 (Impact) | 8.04 ± 1.10 | 32.48 ± 26.51 |
| December 2013-February 2014 (Impact) | 8.21 ± 2.21 | 32.58 ± 11.21 |
| March-May 2014 (Impact) | 6.51 ± 3.34 | 19.14 ± 7.19 |
| June-August 2014 (Impact) | 4.74 ± 3.84 | 17.52 ± 15.12 |
| September-November 2014 (Impact) | 5.10 ± 4.40 | 20.52 ± 15.10 |
| December 2014-February 2015 (Impact) | 2.91 ± 2.69 | 11.27 ± 15.19 |
| March-May 2015 (Impact) | 0.47 ± 0.73 | 2.36 ± 4.07 |

- 3.3.6. Notably, the first eight consecutive quarters have triggered the Action Levels under the Event and Action Plan, while the previous and present quarters have both triggered the Limit Levels. As discussed recently in Hung (2014), the dramatic decline in dolphin usage of NEL waters in 2012 and 2013 (including the declines in abundance, encounter rate and habitat use in NEL, as well as shifts of individual core areas and ranges away from NEL waters) was possibly related to the HZMB construction works that were commenced in 2012. It appeared that such noticeable decline has already extended to NWL waters progressively in 2013 and 2014.
- 3.3.7. A two-way ANOVA with repeated measures and unequal sample size was conducted to examine whether there were any significant differences in the average encounter rates between the baseline and impact monitoring periods. The two variables that were examined included the two periods (baseline and impact phases) and two locations (NEL and NWL).
- 3.3.8. For the comparison between the baseline period and the present quarter (tenth quarter of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0015 and 0.0139 respectively. If the alpha value is set at 0.05, significant differences were detected between the baseline and present quarters in both dolphin encounter rates of STG and ANI.



- 3.3.9. For the comparison between the baseline period and the cumulative quarters in impact phase (i.e. first ten quarters of the impact phase being assessed), the p-values for the differences in average dolphin encounter rates of STG and ANI were 0.0004 and 0.0001 respectively. Even if the alpha value is set at 0.01, significant differences were detected in both the average dolphin encounter rates of STG and ANI (i.e. between the two periods and the locations).
- 3.3.10. As indicated in both dolphin distribution patterns and encounter rates, dolphin usage has been significantly reduced in NEL and NWL waters in the present quarterly period, and such low occurrence has been consistently documented in previous quarters. This raises serious concern, as the decline in dolphin usage in North Lantau waters could possibly link to the HZMB-related construction activities.
- 3.3.11. To ensure the continuous usage of North Lantau waters by the dolphins, every possible measure should be implemented by the contractors and relevant authorities to minimize all disturbances to the dolphins.
- 3.4. Group size
- 3.4.1. Group size of Chinese White Dolphins ranged from one to eight individuals per group in North Lantau region during March to May 2015. The average dolphin group sizes from these three months were compared with the ones deduced from the baseline period in September to November 2011, as shown in Table 6.

Table 6. Comparison of average dolphin group sizes from impact monitoring period (March – May 2015) and baseline monitoring period (September – November 2011) (Note: \pm denotes the standard deviation of the average group size)

| | Average Dolphin Group Size | | | | |
|------------------|----------------------------|---------------------------|--|--|--|
| | March – May 2015 | September – November 2011 | | | |
| Overall | 3.57 ± 2.82 (n = 7) | 3.72 ± 3.13 (n = 66) | | | |
| Northeast Lantau | 0.00 | 3.18 ± 2.16 (n = 17) | | | |
| Northwest Lantau | 3.57 ± 2.82 (n = 7) | 3.92 ± 3.40 (n = 49) | | | |

- 3.4.2. The average dolphin group sizes in NWL waters during March to May 2015 were slightly smaller than the ones recorded during the three-month baseline period (Table 6). Five of the seven groups were composed of 1-3 individuals only, while none of the dolphin groups had more than 10 individuals.
- 3.4.3. Distribution of dolphins with larger group sizes (five individuals or more per group) during the present quarter is shown in Figure 3, with comparison to the one in baseline period. During the spring of 2015, distribution of the two larger dolphin groups were



located near Black Point and to the west of the airport (Figure 3). This distribution pattern was drastically different from the baseline period, when the larger dolphin groups were distributed more evenly in NWL waters with a few more sighted in NEL waters (Figure 3).

3.5. Habitat use

- 3.5.1. From March to May 2015, there was no particular habitat that was heavily utilized by Chinese White Dolphins in North Lantau waters, as only four grids recorded the presence of dolphins during on-effort search (Figures 4a and 4b). As in previous quarters, none of the grids in NEL recorded the presence of dolphins in the present quarter. Moreover, all grids near HKLR03/HKBCF reclamation sites, HKLR09 or TMCLKL alignment did not record any presence of dolphins during on-effort search in the present quarterly period.
- 3.5.2. It should be emphasized that the amount of survey effort collected in each grid during the three-month period was fairly low (6-12 units of survey effort for most grids), and therefore the habitat use pattern derived from the three-month dataset should be treated with caution. A more complete picture of dolphin habitat use pattern will be presented when more survey effort for each grid will be collected throughout the impact phase monitoring programme.
- 3.5.3. When compared with the habitat use patterns during the baseline period, dolphin usage in NEL and NWL has dramatically diminished during the present impact monitoring period (Figure 5). During the baseline period, nine grids between Siu Mo To and Shum Shui Kok recorded moderately high to high dolphin densities, which was in stark contrast to the complete absence of dolphins during the present impact phase period (Figure 5).
- 3.5.4. The density patterns between the baseline and impact phase monitoring periods were also very different in NWL, with higher dolphin usage around Sha Chau, near Black Point, to the west of the airport, as well as between Pillar Point and airport platform during the baseline period. However, these once-highly utilized habitats in the past only recorded rare presence of dolphins during the present impact phase period (Figure 5).

3.6. Mother-calf pairs

- 3.6.1. During the present quarterly period, no young calf (i.e. unspotted calf or unspotted juvenile) was sighted for the second consecutive quarter among the eleven quarters of impact phase monitoring.
- 3.6.2. This absence of young calves is also in stark contrast to their regular occurrence during the baseline period. Their absence should be of a serious concern, and the occurrence of calves should be closely monitored in the upcoming quarters.

3.7. Activities and associations with fishing boats

- 3.7.1. Three dolphin sightings were associated with feeding activities, while only one sighting of dolphin was associated with socializing activity during the three-month study period.
- 3.7.2. The percentage of sightings associated with feeding activities during the present quarter (42.9%) was much higher than the one recorded during the baseline period (11.6%). On



the other hand, the percentage of socializing activities during the present impact phase monitoring period (14.3%) was slightly higher than the one recorded during the baseline period (5.4%). However, the higher percentages of both feeding and socializing activities were probably due to the overall small sample size of dolphin sightings. Notably, none of the seven dolphin groups were engaged in traveling or milling/resting behaviour.

- 3.7.3. Distribution of dolphins engaged in feeding and socializing activities during the present three-month period is shown in Figure 6. The three sightings of feeding activities were located near Black Point, to the north of the airport platform and near HKLR09 alignment adjacent to Sham Wat respectively (Figure 6). The lone sighting associated with socializing activity was located near Black Point as well (Figure 6). Distribution of dolphin sightings associated with these activities during the impact phase was very different from the distribution pattern of these activities during the baseline period (Figure 6).
- 3.7.4. As in the past monitoring quarters, none of the seven dolphin groups was found to be associated with an operating fishing vessel in North Lantau waters during the present impact phase period. The extremely rare events of fishing boat association in the present and previous quarters were consistently found, and were likely related to the recent trawl ban being implemented in December 2012 in Hong Kong waters.

3.8. Summary of photo-identification works

- 3.8.1. From March to May 2015, over 800 digital photographs of Chinese White Dolphins were taken during the impact phase monitoring surveys for the photo-identification work.
- 3.8.2. In total, 16 individuals sighted 18 times altogether were identified (see summary table in Appendix III and photographs of identified individuals in Appendix IV). All of these 18 re-sightings were made in NWL.
- 3.8.3. The majority of identified individuals were sighted only once during the three-month period, with the exception of two individuals (NL136 and NL284) being sighted thrice.
- 3.8.4. Two of these 16 individuals (NL123 and NL285) were also sighted in West Lantau waters during the HKLR09 monitoring surveys during the same three-month period (i.e. March-May 2015), but the locations of their re-sightings in NWL and WL were not too far apart even though they were separated by the HKLR09 bridge alignment.
- 3.8.5. Three recognized females (NL104, NL123 and NL202) were accompanied with calves during their re-sightings. All three mothers were frequently sighted with their calves throughout the HKLR03 impact phase monitoring period since October 2012.
- *3.9. Individual range use*
- 3.9.1. Ranging patterns of the 16 individuals identified during the three-month study period were determined by fixed kernel method, and are shown in Appendix V.
- 3.9.2. All identified dolphins sighted in this quarter were ranged primarily in NWL, but have



avoided the NEL waters where many of them have utilized as their core areas in the past (Appendix V). This is in contrary to the extensive movements between NEL and NWL survey areas observed in the earlier impact monitoring quarters as well as during the baseline period.

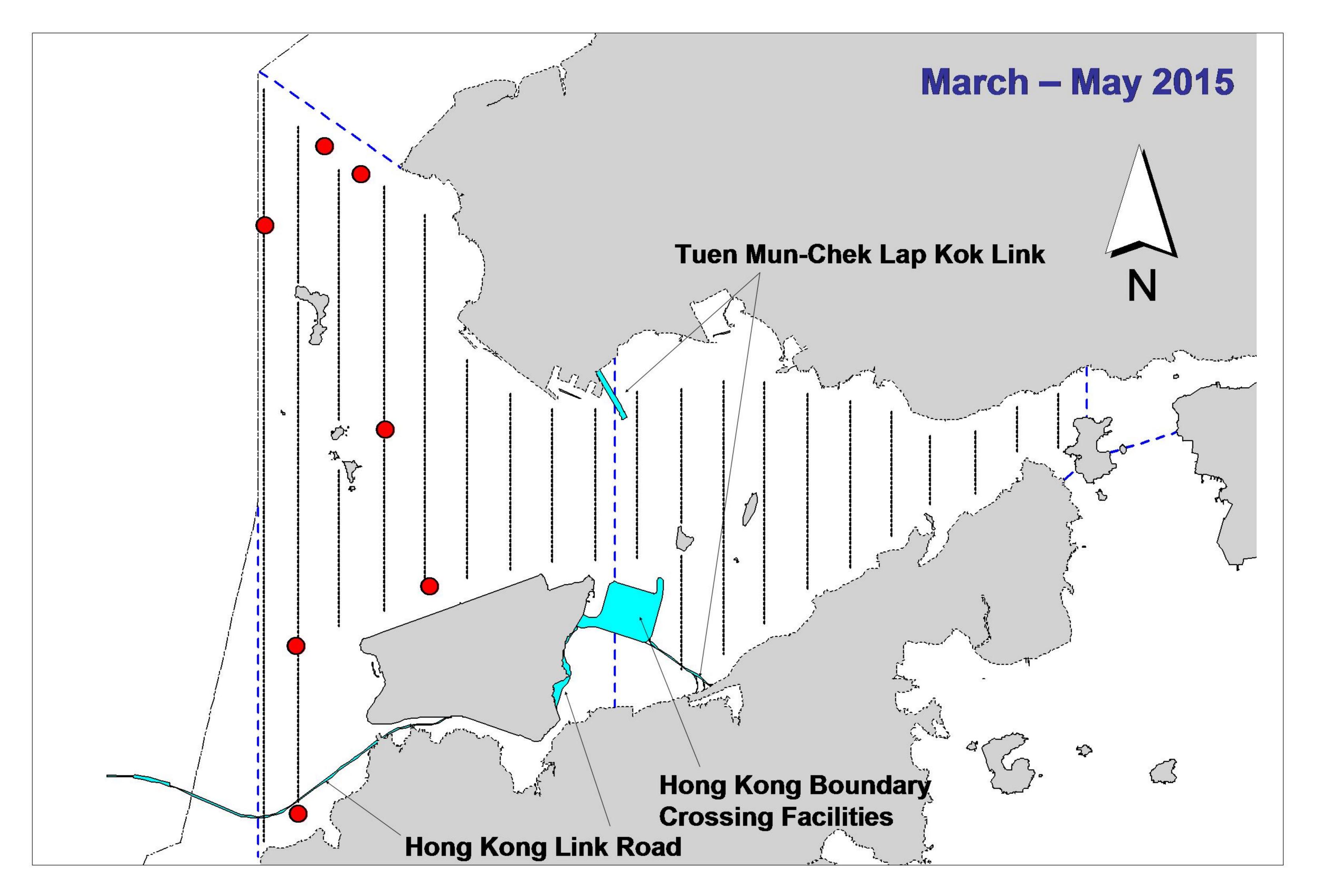
3.9.3. Notably, a mother-calf pair (i.e. NL123 and NL285) sighted in NWL and NEL waters consistently in the past have extended their range use to WL waters in the present quarter. It should be further monitored to examine whether there has been any consistent shifts of home ranges of some individuals from North Lantau to West Lantau, which could also possibly be related to the HZMB-related construction works.

4. Conclusion

- 4.1. During this quarter of dolphin monitoring, no adverse impact from the activities of the TMCLKL construction project on Chinese White Dolphins was noticeable from general observations.
- 4.2. Although the dolphins infrequently occurred along the alignment of TMCLKL southern connection viaduct in the past and during the baseline monitoring period, it is apparent that dolphin usage has been significantly reduced in NEL, and many individuals have shifted away from the important habitat around the Brothers Islands.
- 4.3. It is critical to monitor the dolphin usage in North Lantau region in the upcoming quarters, to determine whether the dolphins are continuously affected by the various construction activities in relation to the HZMB-related works, and whether suitable mitigation measure can be applied to revert the situation.

5. References

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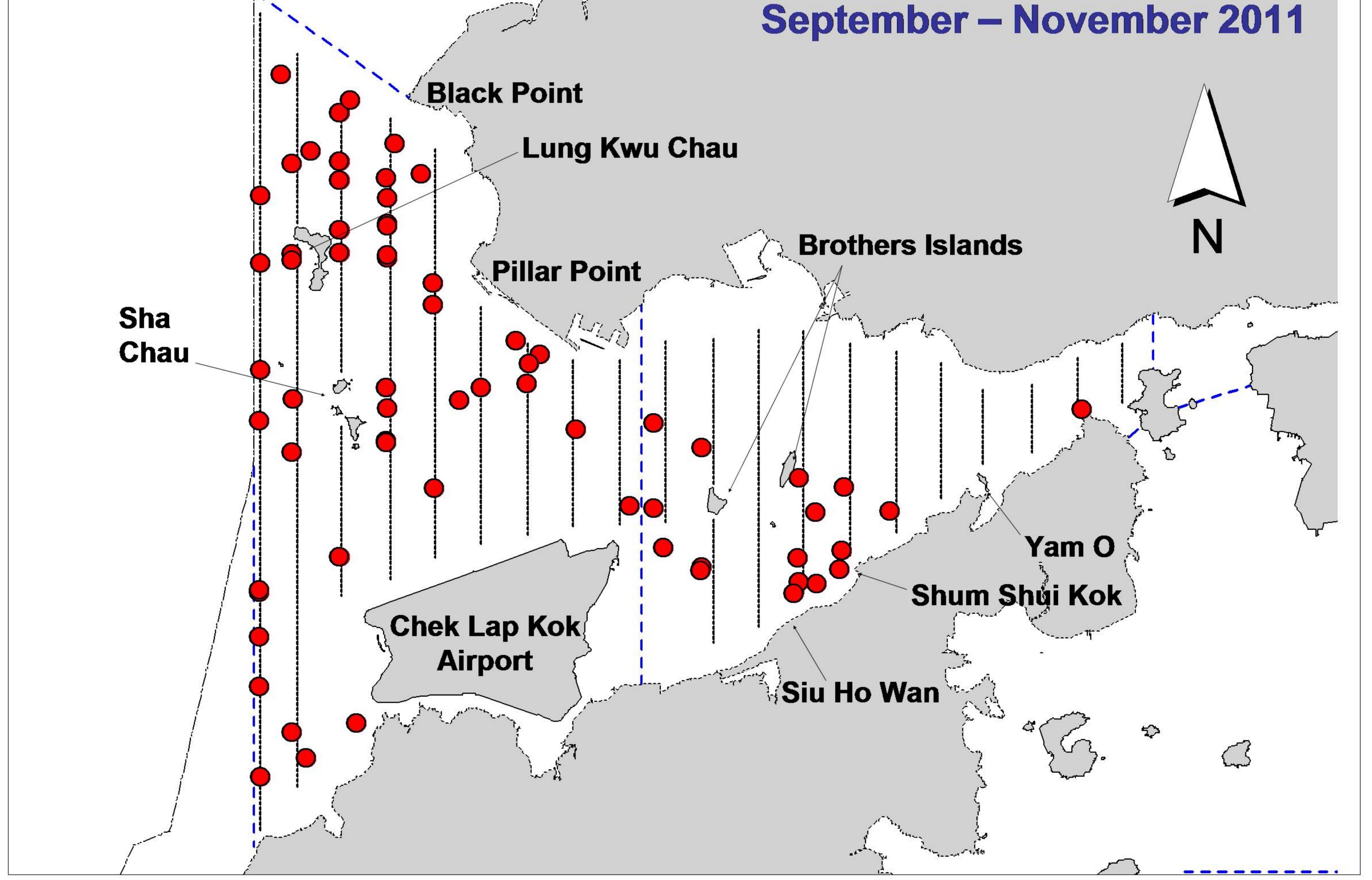


Figure 1. Distribution of Chinese white dolphin sighting in Northwest and Northeast Lantau during HKLR03 impact phase (top) and baseline monitoring surveys (bottom)

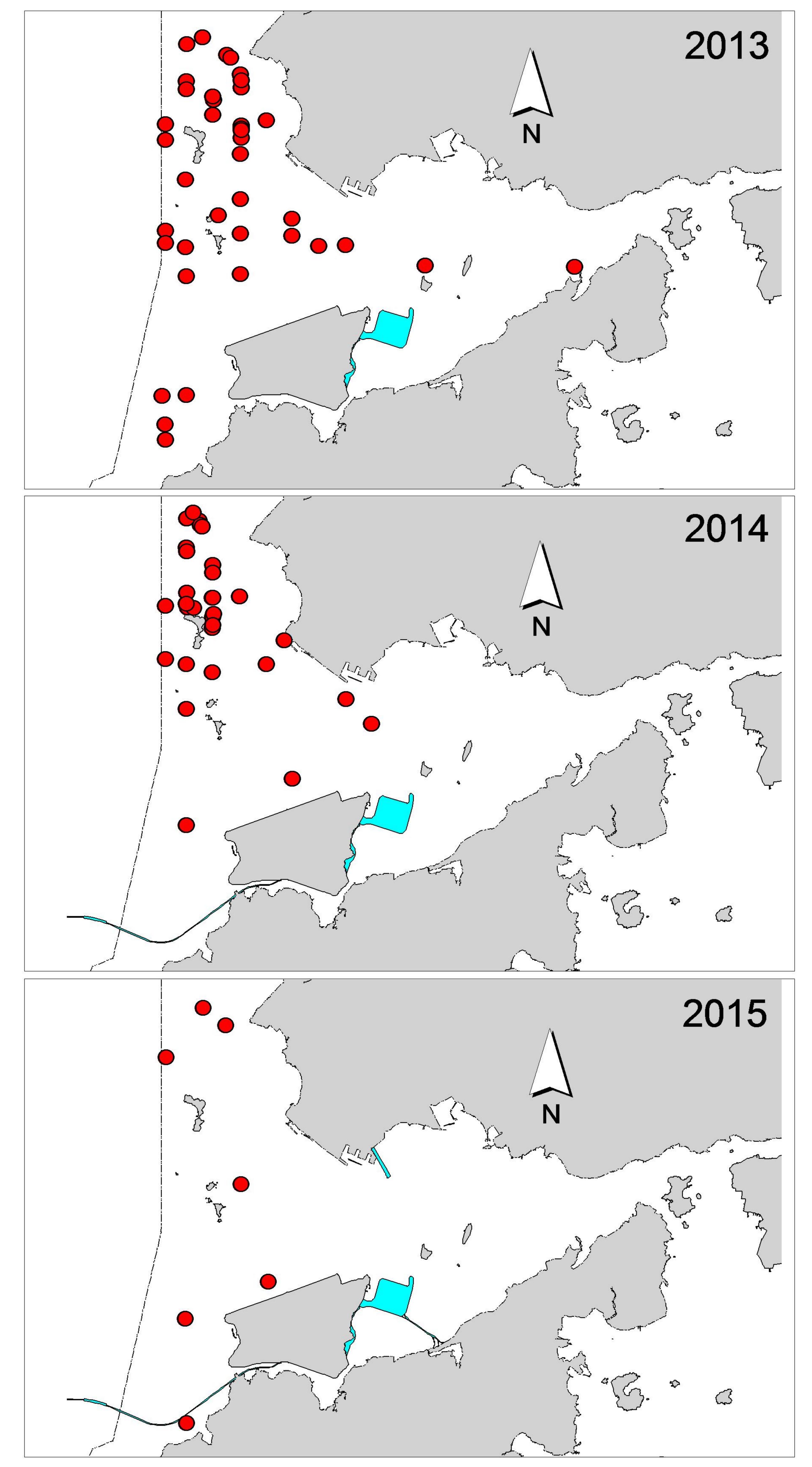
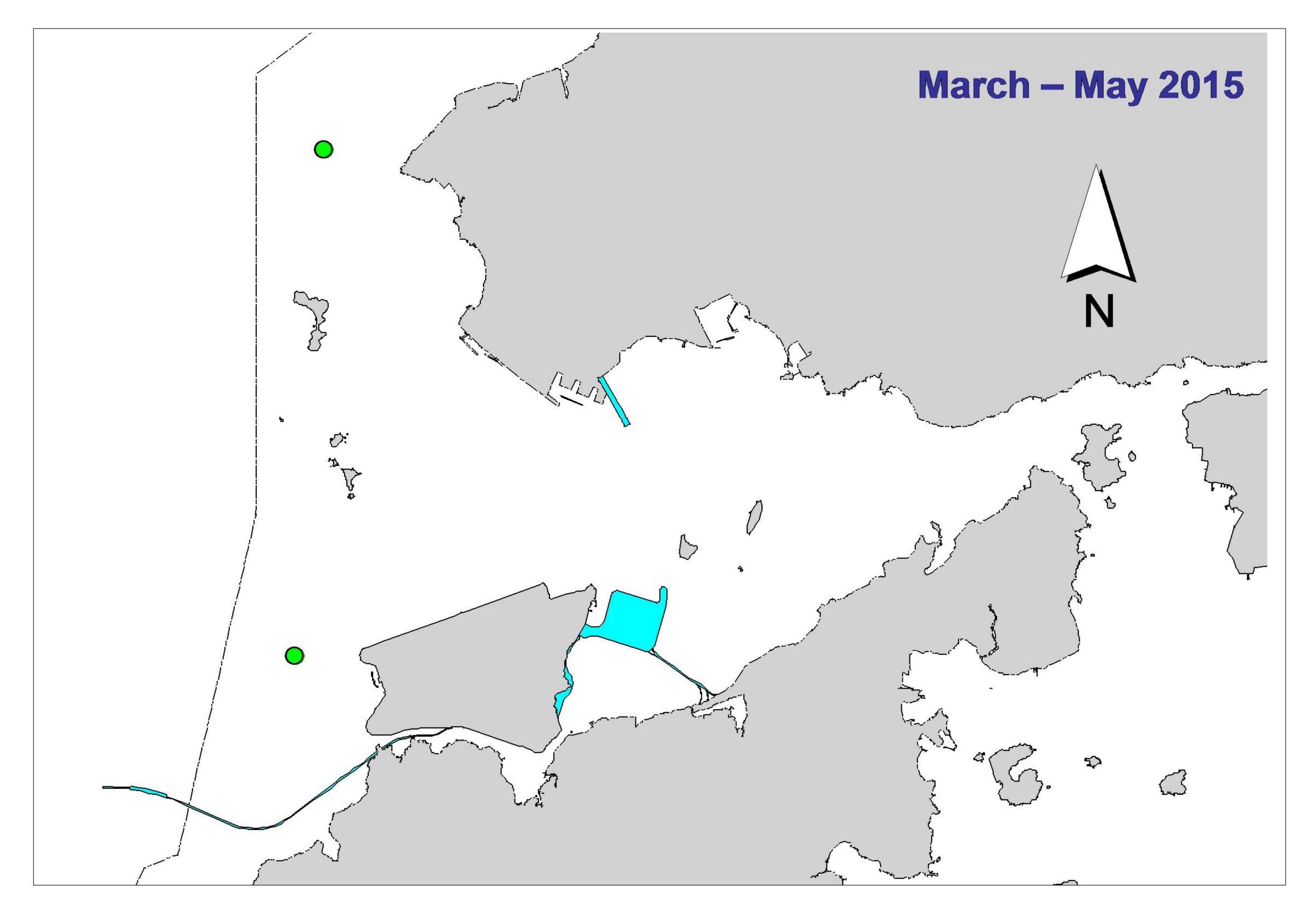


Figure 2. Distribution of Chinese white dolphin sightings in Northwest and Northeast Lantau during the same spring quarters of HKLR03 impact phase in 2013-15



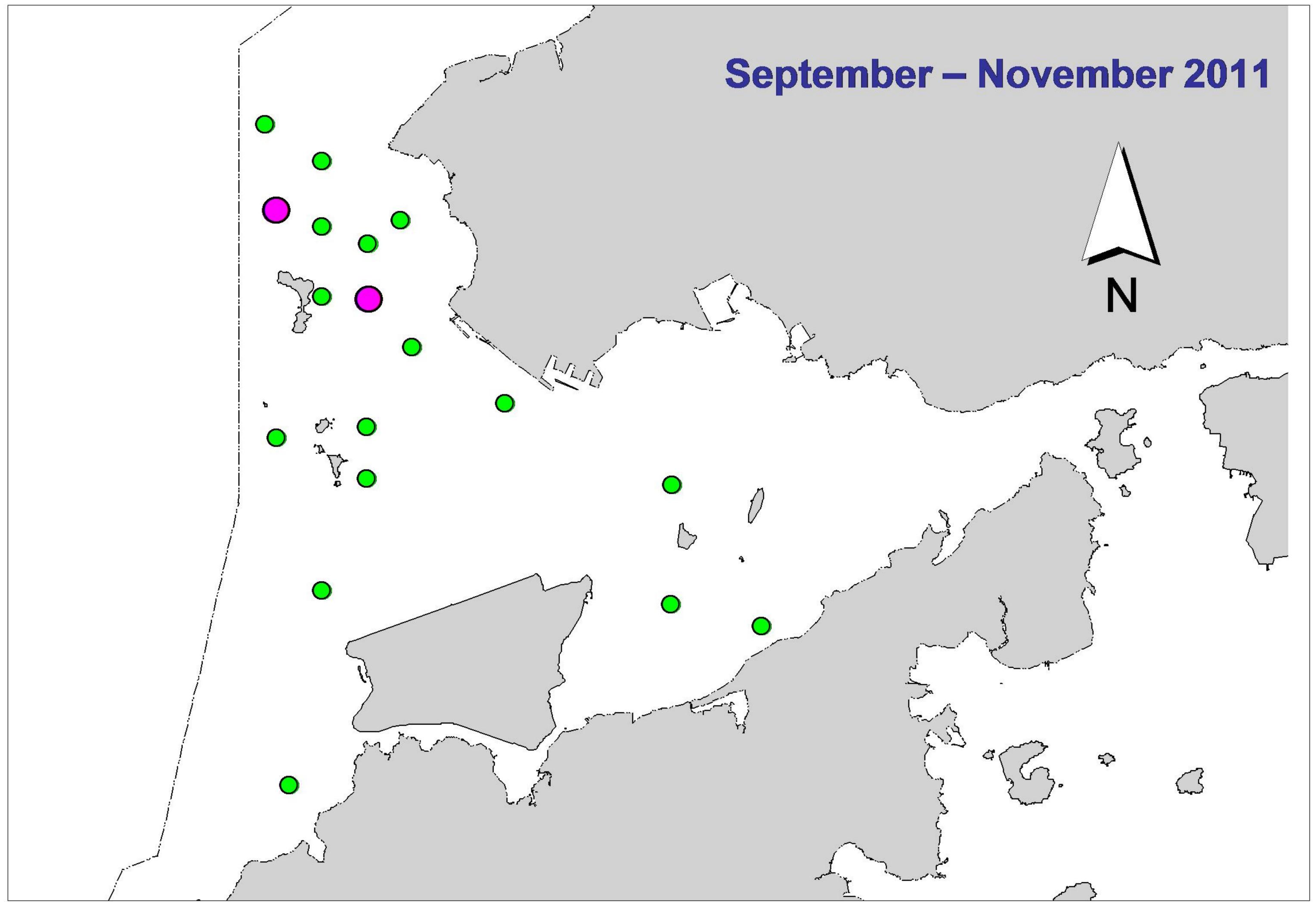


Figure 3. Distribution of Chinese white dolphins with larger group sizes during HKLR03 impact phase (top) and baseline monitoring surveys (bottom) (green dots: group sizes of 5 or more; purple dots: group sizes of 10 or more)

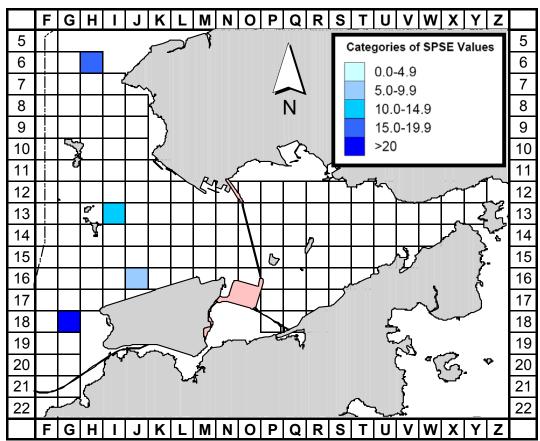


Figure 4a. Sighting density of Chinese white dolphins with corrected survey effort per km^2 in Northeast and Northwest Lantau survey areas, using data collected during HKLR03 impact monitoring period monitoring period (Mar-May 15) (SPSE = no. of on-effort sightings per 100 units of survey effort)

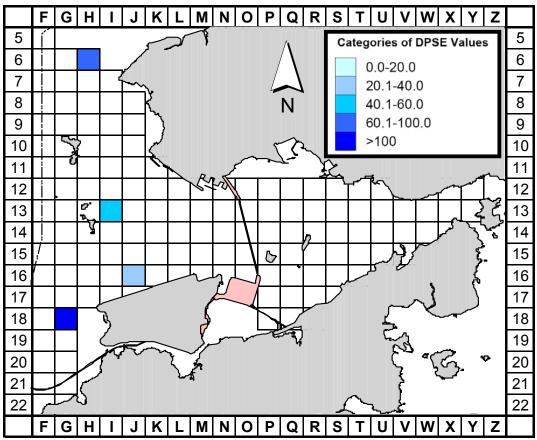


Figure 4b. Density of Chinese white dolphins with corrected survey effort per km^2 in Northeast and Northwest Lantau survey areas, using data collected during HKLR03 impact monitoring period (Mar-May 15) (DPSE = no. of dolphins per 100 units of survey effort)

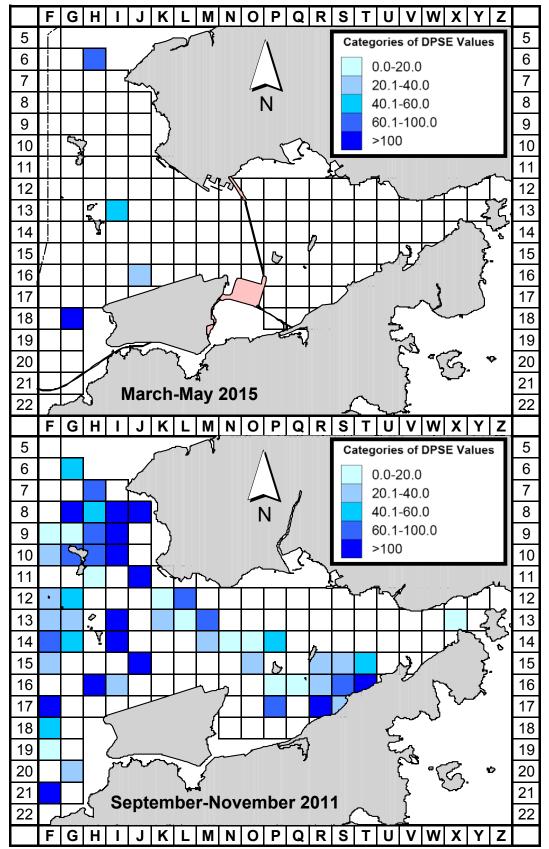
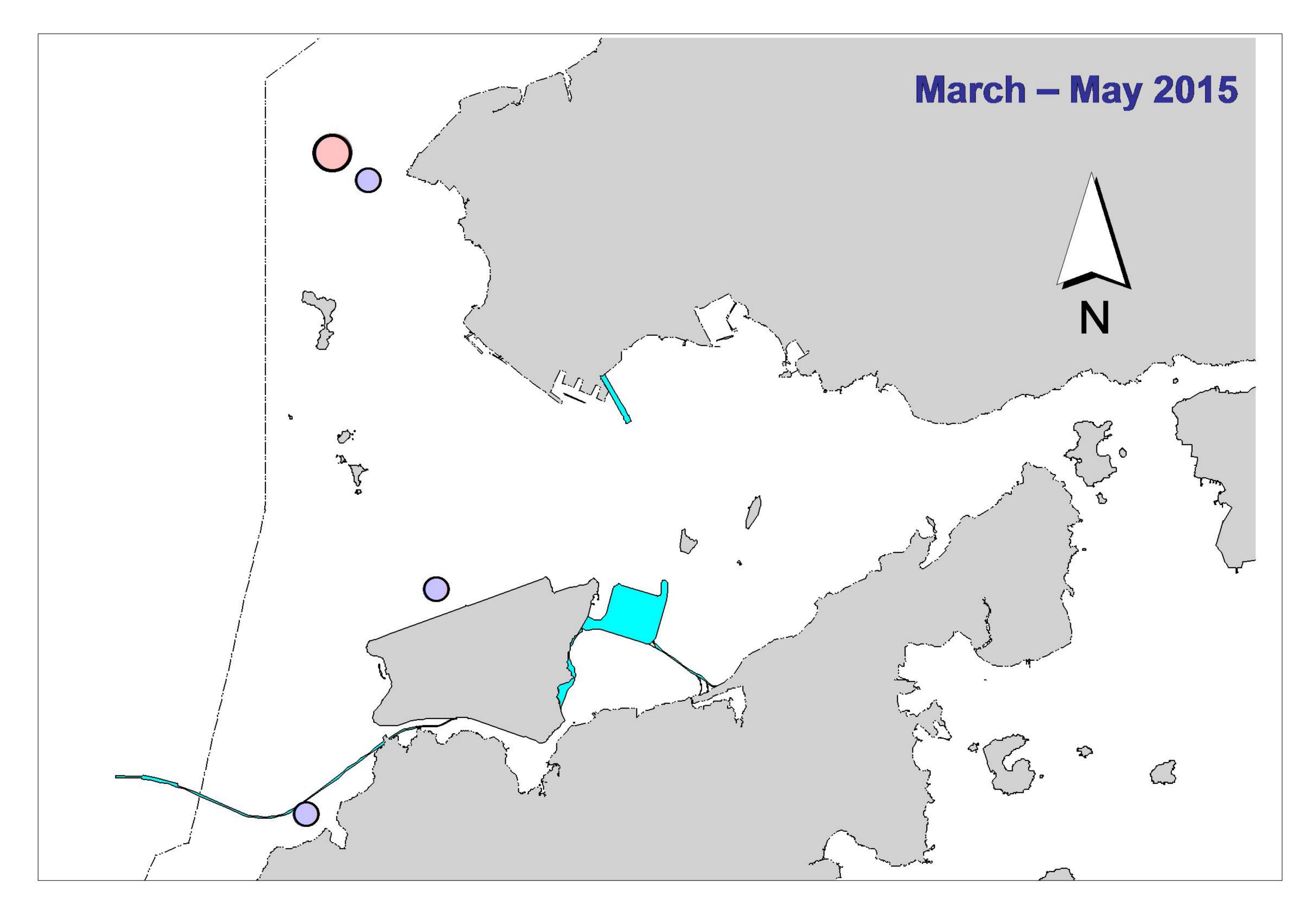


Figure 5. Comparison of density of Chinese white dolphins with corrected survey effort per km^2 in Northwest and Northeast Lantau survey area between the impact monitoring period (March-May 2015) and baseline monitoring period (September-November 2011) (DPSE = no. of dolphins per 100 units of survey effort)



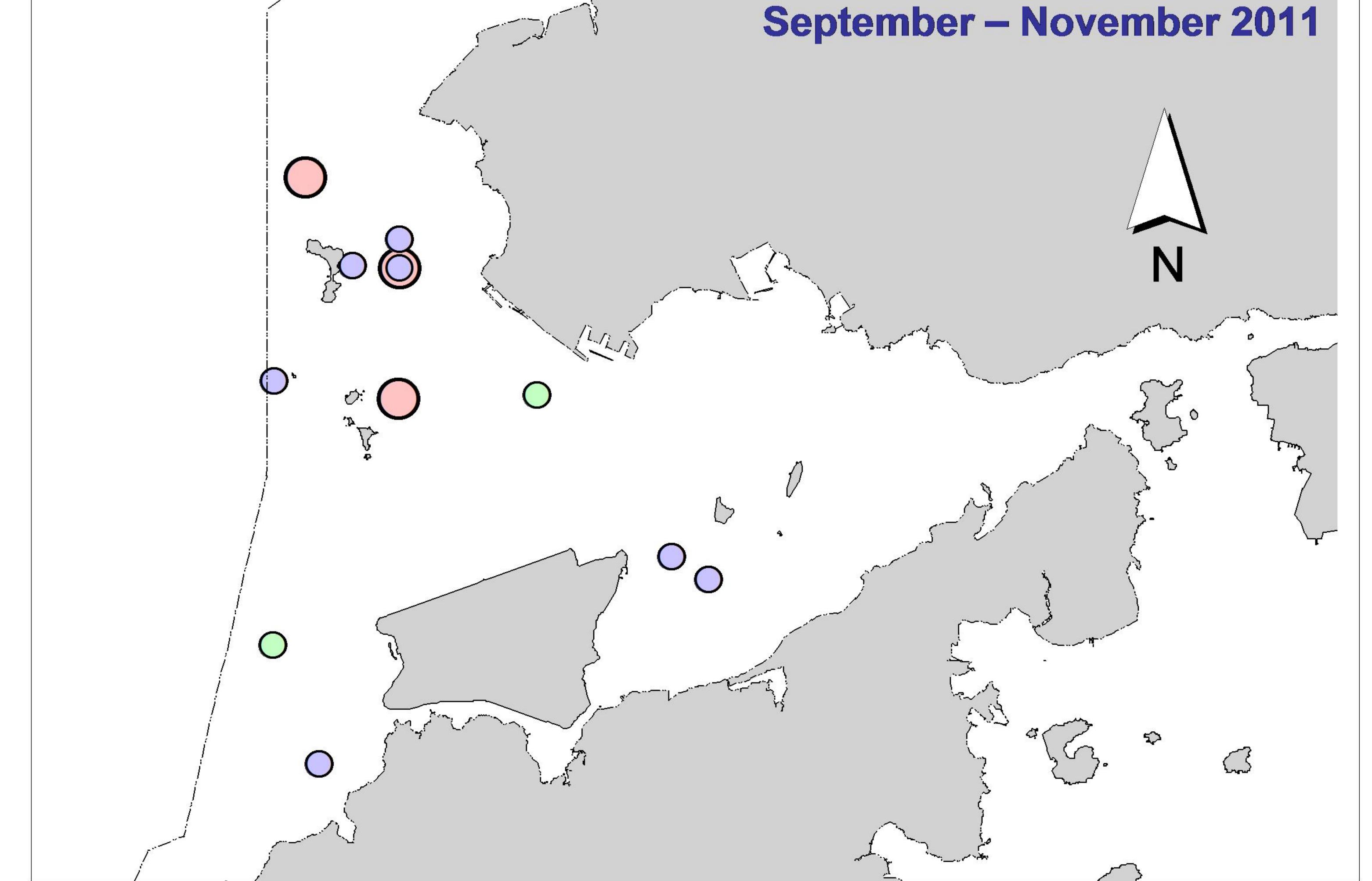


Figure 6. Distribution of Chinese white dolphins engaged in feeding (purple dots), socializing (pink dots) and traveling (green dots) activities during HKLR03 impact phase (top) and baseline monitoring surveys (bottom)

Appendix I. HKLR03 Survey Effort Database (March-May 2015)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

| DATE | AREA | BEAU | EFFORT | SEASON | VESSEL | TYPE | P/S |
|-----------|------------------------|--------|---------------|------------------|--------------------------------|--------------|--------|
| 4-Mar-15 | NW LANTAU | 1 | 1.07 | SPRING | STANDARD31516 | HKLR | Р |
| 4-Mar-15 | NW LANTAU | 2 | 12.71 | SPRING | STANDARD31516 | HKLR | Р |
| 4-Mar-15 | NW LANTAU | 3 | 25.62 | SPRING | STANDARD31516 | HKLR | Р |
| 4-Mar-15 | NW LANTAU | 4 | 1.40 | SPRING | STANDARD31516 | HKLR | Р |
| 4-Mar-15 | NW LANTAU | 2 | 8.00 | SPRING | STANDARD31516 | HKLR | S |
| 4-Mar-15 | NW LANTAU | 3 | 3.30 | SPRING | STANDARD31516 | HKLR | S |
| 4-Mar-15 | NW LANTAU | 4 | 1.00 | SPRING | STANDARD31516 | HKLR | S |
| 4-Mar-15 | NE LANTAU | 2 | 5.38 | SPRING | STANDARD31516 | HKLR | Р |
| 4-Mar-15 | NE LANTAU | 3 | 12.87 | SPRING | STANDARD31516 | HKLR | Р |
| 4-Mar-15 | NE LANTAU | 2 | 3.40 | SPRING | STANDARD31516 | HKLR | S |
| 4-Mar-15 | NE LANTAU | 3 | 5.39 | SPRING | STANDARD31516 | HKLR | S |
| 11-Mar-15 | NW LANTAU | 2 | 25.99 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-15 | NW LANTAU | 3 | 5.09 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-15 | NW LANTAU | 2 | 7.53 | SPRING | STANDARD31516 | HKLR | S |
| 11-Mar-15 | NE LANTAU | 2 | 20.05 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-15 | NE LANTAU | 2 | 10.95 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-15 | NW LANTAU | 2 | 3.26 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-15 | | 3 | 36.14 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-15 | | 4 | 0.80 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-15 | NW LANTAU | 2 | 2.20 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-15 | NW LANTAU | 3 | 10.40 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-15 | NE LANTAU | 2 | 14.63 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-15 | NE LANTAU | 3 | 1.97 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-15 | NE LANTAU | 1 | 1.94 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-15 | NE LANTAU | 2 | 7.69 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-15 | NE LANTAU | 3 | 0.68 | SPRING | STANDARD31516 | HKLR | S |
| 26-Mar-15 | NW LANTAU | 1 | 20.26 | SPRING | STANDARD31516 | HKLR | P |
| 26-Mar-15 | NW LANTAU | 2 | 10.63 | SPRING | STANDARD31516 | HKLR | P |
| 26-Mar-15 | NW LANTAU | 2 | 6.76 | SPRING | STANDARD31516 | HKLR | S |
| 26-Mar-15 | NE LANTAU | 1 | 11.38 | SPRING | STANDARD31516 | HKLR | P |
| 26-Mar-15 | NE LANTAU | 2 | 8.40 | SPRING | STANDARD31516 | HKLR | P |
| 26-Mar-15 | NE LANTAU | 1 | 4.32 | SPRING | STANDARD31516 | HKLR | S |
| 26-Mar-15 | | 2 | 6.2 | SPRING | STANDARD31516 | HKLR | S |
| 8-Apr-15 | | 2 | 14.22 | SPRING | STANDARD31516 | HKLR | P |
| 8-Apr-15 | NE LANTAU | 3 | 5.10 | SPRING | STANDARD31516 | HKLR | P |
| 8-Apr-15 | NE LANTAU | 1 | 0.50 | SPRING | STANDARD31516 | HKLR | S |
| 8-Apr-15 | NE LANTAU | 2 | 9.09 | SPRING | STANDARD31516 | HKLR | S |
| 8-Apr-15 | | 3 | 0.99 | SPRING | STANDARD31516 | HKLR | S |
| 8-Apr-15 | | 2 | 4.96 | SPRING | STANDARD31516 | HKLR | Р |
| 8-Apr-15 | | 3 | 25.95 | SPRING | STANDARD31516 | HKLR | Р |
| 8-Apr-15 | | 4 | 0.84 | SPRING | STANDARD31516 | HKLR | Р |
| 8-Apr-15 | | 2 | 2.29 | SPRING | STANDARD31516 | HKLR | S |
| 8-Apr-15 | | 3 | 5.26 | SPRING | STANDARD31516 | HKLR | S |
| 10-Apr-15 | | 2 | 14.40 | SPRING | STANDARD31516 | HKLR | Р |
| 10-Apr-15 | | 3 | 26.10 | SPRING | STANDARD31516 | HKLR | Р |
| 10-Apr-15 | | 2 | 9.40 | SPRING | STANDARD31516 | HKLR | S |
| 10-Apr-15 | | 3 | 4.20 | SPRING | STANDARD31516 | HKLR | S |
| 10-Apr-15 | | 2 | 15.44 | SPRING | STANDARD31516 | HKLR | Р |
| 10-Apr-15 | NE LANTAU | 3 | 1.30 | SPRING | STANDARD31516 | | P |
| 10-Apr-15 | NE LANTAU NW LANTAU | 2 2 | 10.06 4.84 | SPRING SPRING | STANDARD31516 STANDARD31516 | HKLR HKLR | S P |
| 17-Apr-15 | INVI LAINTAU | 2 | 4.04 | SPRING | STANDARDS1310 | | Г |
| | | | | | | | |

Appendix I. (cont'd)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

| 17.Apr-15 NW LANTAU 3 29.76 SPRING STANDARD31516 HKLR P 17.Apr-15 NW LANTAU 4 5.8 SPRING STANDARD31516 HKLR P 17.Apr-15 NW LANTAU 3 7.6 SPRING STANDARD31516 HKLR S 17.Apr-16 NW LANTAU 4 4.8 SPRING STANDARD31516 HKLR S 17.Apr-15 NE LANTAU 2 3.60 SPRING STANDARD31516 HKLR P 17.Apr-15 NE LANTAU 2 4.41 SPRING STANDARD31516 HKLR P 17.Apr-15 NE LANTAU 2 4.41 SPRING STANDARD31516 HKLR S 22-Apr-15 NW LANTAU 2 20.00 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 2 25.27 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 2 7.07 SPRING STANDARD31516< | DATE | AREA | BEAU | EFFORT | SEASON | VESSEL | TYPE | P/S |
|--|-----------|-----------|------|--------|--------|---------------|------|-----|
| 17.Apr-15 NW LANTAU 2 0.3 SPRING STANDARD31516 HKLR S 17.Apr-15 NW LANTAU 3 7.6 SPRING STANDARD31516 HKLR S 17.Apr-15 NW LANTAU 4 8.8 SPRING STANDARD31516 HKLR S 17.Apr-15 NE LANTAU 2 3.60 SPRING STANDARD31516 HKLR P 17.Apr-15 NE LANTAU 2 2.41 SPRING STANDARD31516 HKLR P 17.Apr-15 NE LANTAU 2 2.000 SPRING STANDARD31516 HKLR S 22.Apr-15 NW LANTAU 2 10.90 SPRING STANDARD31516 HKLR P 22.Apr-15 NW LANTAU 2 2.527 SPRING STANDARD31516 HKLR P 22.Apr-15 NW LANTAU 2 7.07 SPRING STANDARD31516 HKLR S 22.Apr-15 NW LANTAU 3 3.37 SPRING STANDARD31516< | 17-Apr-15 | NW LANTAU | 3 | 29.76 | | | HKLR | Р |
| 17-Apr-15 NW LANTAU 2 0.3 SPRING STANDARD31516 HKLR S 17-Apr-15 NW LANTAU 3 7.6 SPRING STANDARD31516 HKLR S 17-Apr-15 NW LANTAU 4 8.8 SPRING STANDARD31516 HKLR S 17-Apr-15 NE LANTAU 2 3.60 SPRING STANDARD31516 HKLR P 17-Apr-15 NE LANTAU 2 2.41 SPRING STANDARD31516 HKLR P 17-Apr-15 NE LANTAU 2 2.41 SPRING STANDARD31516 HKLR P 22-Apr-15 NE LANTAU 2 2.00 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 2 2.527 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 2 7.07 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 3 3.37 SPRING STANDARD31516 <td></td> <td>NW LANTAU</td> <td>4</td> <td>5.8</td> <td>SPRING</td> <td>STANDARD31516</td> <td>HKLR</td> <td>Р</td> | | NW LANTAU | 4 | 5.8 | SPRING | STANDARD31516 | HKLR | Р |
| 17-Apr-15 NW LANTAU 3 7.6 SPRING STANDARD31516 HKLR S 17-Apr-15 NE LANTAU 4 4.8 SPRING STANDARD31516 HKLR S 17-Apr-15 NE LANTAU 3 11.51 SPRING STANDARD31516 HKLR P 17-Apr-15 NE LANTAU 2 4.41 SPRING STANDARD31516 HKLR P 17-Apr-15 NE LANTAU 2 20.00 SPRING STANDARD31516 HKLR S 22-Apr-15 NE LANTAU 2 02.00 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 2 10.90 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 3 3.37 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 2 18.60 SPRING STANDARD31516 HKLR S 22-Apr-15 NW LANTAU 3 3.60 SPRING STANDARD315 | | NW LANTAU | | 0.3 | SPRING | STANDARD31516 | HKLR | S |
| 17-Apr-15 NW LANTAU 4 4.8 SPRING STANDARD31516 HKLR S 17-Apr-15 NE LANTAU 2 3.60 SPRING STANDARD31516 HKLR P 17-Apr-15 NE LANTAU 4 2.21 SPRING STANDARD31516 HKLR P 17-Apr-15 NE LANTAU 2 4.41 SPRING STANDARD31516 HKLR S 22-Apr-15 NE LANTAU 2 20.00 SPRING STANDARD31516 HKLR S 22-Apr-15 NW LANTAU 2 20.00 SPRING STANDARD31516 HKLR S 22-Apr-15 NW LANTAU 2 3.237 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 2 7.07 SPRING STANDARD31516 HKLR P 22-Apr-15 NW LANTAU 2 18.60 SPRING STANDARD31516 HKLR P 24-May-15 NW LANTAU 2 18.60 SPRING STANDARD31 | | NW LANTAU | | 7.6 | SPRING | | HKLR | |
| 17.Apr-15 NE LANTAU 2 3.60 SPRING STANDARD31516 HKLR P 17.Apr-15 NE LANTAU 3 11.51 SPRING STANDARD31516 HKLR P 17.Apr-15 NE LANTAU 2 4.41 SPRING STANDARD31516 HKLR P 17.Apr-15 NE LANTAU 2 4.41 SPRING STANDARD31516 HKLR P 22.Apr-15 NE LANTAU 2 20.00 SPRING STANDARD31516 HKLR P 22.Apr-15 NW LANTAU 1 3.24 SPRING STANDARD31516 HKLR P 22.Apr-15 NW LANTAU 2 25.27 SPRING STANDARD31516 HKLR P 22.Apr-15 NW LANTAU 2 7.07 SPRING STANDARD31516 HKLR P 24.May-15 NW LANTAU 2 13.60 SPRING STANDARD31516 HKLR P 4-May-15 NW LANTAU 2 17.3 SPRING STANDARD315 | | | | | | STANDARD31516 | | |
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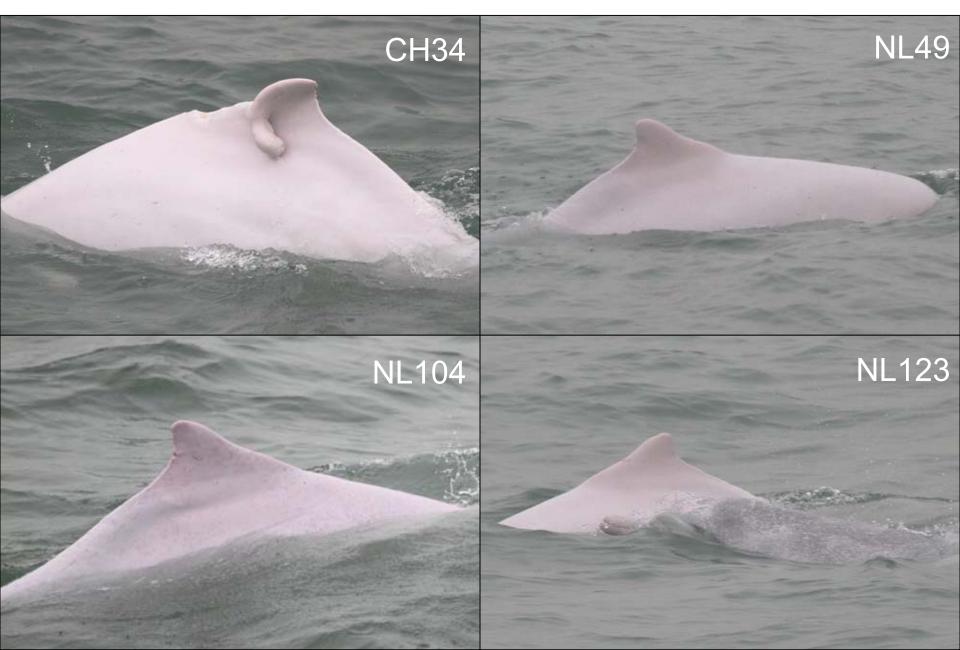
Appendix II. HKLR03 Chinese White Dolphin Sighting Database (March-May 2015) (Abberviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association P/S: Sighting Made on Primary/Secondary Lines

| DATE | STG # | TIME | HRD SZ | AREA | BEAU | PSD | EFFORT | TYPE | NORTHING | EASTING | SEASON | BOAT ASSOC. | P/S |
|-----------|-------|------|--------|-----------|------|-----|--------|------|----------|---------|--------|-------------|-----|
| 04-Mar-15 | 1 | 1009 | 1 | NW LANTAU | 2 | ND | OFF | HKLR | 815213 | 805485 | SPRING | NONE | |
| 11-Mar-15 | 1 | 1347 | 1 | NW LANTAU | 2 | ND | OFF | HKLR | 829495 | 806976 | SPRING | NONE | |
| 11-Mar-15 | 2 | 1519 | 7 | NW LANTAU | 2 | 258 | ON | HKLR | 818956 | 805421 | SPRING | NONE | Р |
| 26-Mar-15 | 1 | 1201 | 3 | NW LANTAU | 2 | 21 | ON | HKLR | 820290 | 808597 | SPRING | NONE | S |
| 08-Apr-15 | 1 | 1309 | 3 | NW LANTAU | 3 | 142 | ON | HKLR | 823791 | 807532 | SPRING | NONE | Р |
| 10-Apr-15 | 1 | 1103 | 2 | NW LANTAU | 2 | ND | OFF | HKLR | 828359 | 804688 | SPRING | NONE | |
| 22-Apr-15 | 1 | 1432 | 8 | NW LANTAU | 2 | 354 | ON | HKLR | 830139 | 806113 | SPRING | NONE | S |
| | | | | | | | | | | | | | |

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in March-May 2015

| ID# | DATE | STG# | AREA |
|-------|----------|------|-----------|
| CH34 | 11/03/15 | 1 | NW LANTAU |
| NL49 | 11/03/15 | 2 | NW LANTAU |
| NL104 | 22/04/15 | 1 | NW LANTAU |
| NL123 | 11/03/15 | 2 | NW LANTAU |
| NL136 | 11/03/15 | 2 | NW LANTAU |
| | 08/04/15 | 1 | NW LANTAU |
| NL153 | 22/04/15 | 1 | NW LANTAU |
| NL165 | 11/03/15 | 2 | NW LANTAU |
| NL202 | 22/04/15 | 1 | NW LANTAU |
| NL236 | 22/04/15 | 1 | NW LANTAU |
| NL261 | 26/03/15 | 1 | NW LANTAU |
| NL272 | 26/03/15 | 1 | NW LANTAU |
| NL284 | 11/03/15 | 2 | NW LANTAU |
| | 26/03/15 | 1 | NW LANTAU |
| NL285 | 11/03/15 | 2 | NW LANTAU |
| NL286 | 22/04/15 | 1 | NW LANTAU |
| NL307 | 22/04/15 | 1 | NW LANTAU |
| WL178 | 04/03/15 | 1 | NW LANTAU |
| | | | |

Appendix IV. Sixteen individual dolphins that were identified during March-May 2015 under HKLR03 impact phase monitoring surveys



Appendix IV. (cont'd)



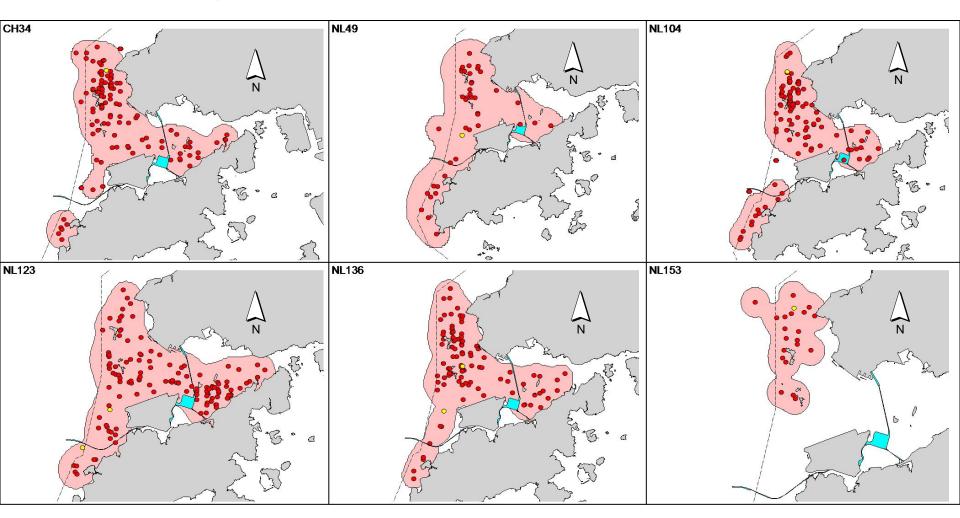
Appendix IV. (cont'd)



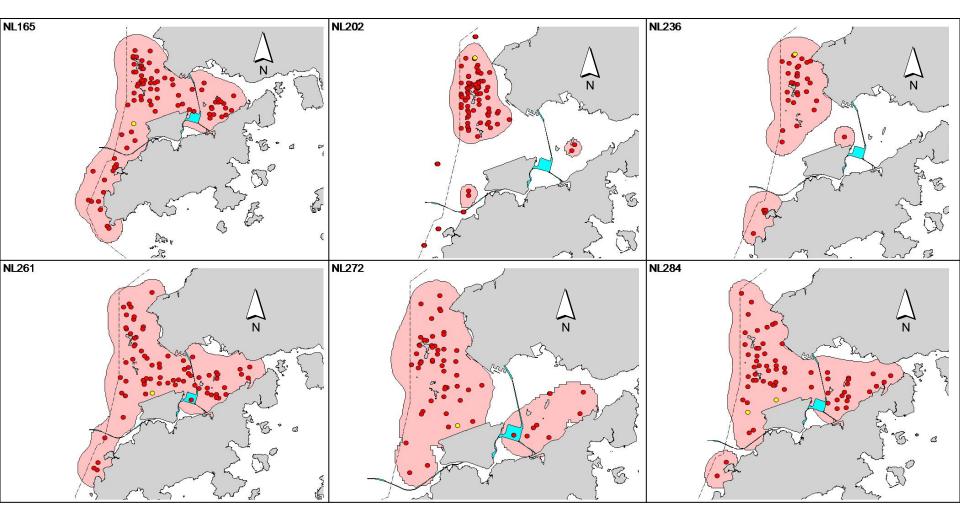
Appendix IV. (cont'd)



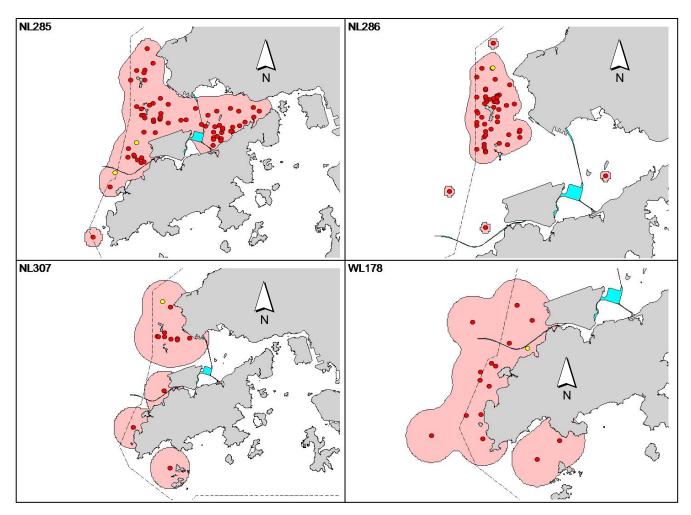
Appendix V. Ranging patterns (95% kernel ranges) of 16 individual dolphins that were sighted during HKLR03 impact phase monitoring period (note: yellow dots indicates sightings made in March-May 2015)



Appendix V. (cont'd)



Appendix V. (cont'd)



Appendix J

Event Action Plan

Appendix J1Event/Action Plan for Air Quality

| | IEC ⁽¹⁾ | SOR ⁽¹⁾ | |
|---|--|---|---|
| | | JOK | Contractor |
| | | | |
| urce. and the SOR. ement to confirm oring frequency to | Check monitoring data submitted by the ET. Check Contractor's working method. | 1. Notify Contractor. | Rectify any unacceptable practice Amend working methods if appropriate |
| urce. C and the SOR. rements to confirm coring frequency to he IEC and the remedial actions continues, arrange the IEC and the | Check monitoring data submitted by the ET. Check the Contractor's working method. Discuss with the ET and the Contractor on possible remedial measures. Advise the SOR on the effectiveness of the proposed remedial measures. Supervisor implementation of remedial measures. | Confirm receipt of notification of failure in writing. Notify the Contractor. Ensure remedial measures properly implemented. | Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate |
| rem contin the I stops | edial actions nues, arrange | edial actions 4. Advise the SOR on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures. , cease | edial actions 4. Advise the SOR on the effectiveness of the proposed remedial measures. nues, arrange EC and the 5. Supervisor implementation of remedial measures. , cease |

| | ACTION | | | | | | | |
|---|--|--|---|--|--|--|--|--|
| EVENT | ET ⁽¹⁾ | IEC ⁽¹⁾ | SOR ⁽¹⁾ | Contractor | | | | |
| Limit Level | | | | | | | | |
| 1. Exceedance for one sample | Identify the source. Inform the SOR and the DEP. | 1. Check monitoring data submitted by the ET. | 1. Confirm receipt of notification of failure in writing. | 1. Take immediate action to avoid further exceedance | | | | |
| | Repeat measurement to confirm finding. | Check Contractor's working method. Diamondal and a Diamondal and a D | 2. Notify the Contractor. 3. Ensure remedial measures are | Submit proposals for remedial actions to IEC within 3 working days of notification | | | | |
| | Increase monitoring frequency to daily. | Discuss with the ET and the Contractor on possible remedial measures. | properly implemented. | 3. Implement the agreed proposals | | | | |
| | 5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of | 4. Advise the SOR on the effectiveness of the proposed remedial measures. | | 4. Amend proposal if appropriate | | | | |
| | the results. | 5. Supervisor implementation of remedial measures. | | | | | | |
| 2. Exceedance for two or more consecutive | 1. Notify the IEC, the SOR, the DEP and the Contractor. | Discuss amongst the SOR, ET and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SOR accordingly. Supervise the implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing. | 1. Take immediate action to avoid further exceedance. | | | | |
| samples | 2. Identify the source. | | 2. Notify the Contractor. | 2. Submit proposals for remedial | | | | |
| | 3. Repeat measurements to confirm findings. | | 3. In consultation with the IEC, agree with the Contractor on the | actions to IEC within 3 working days of notification. | | | | |
| | 4. Increase monitoring frequency to | | remedial measures to be implemented. 4. Ensure remedial measures are | 3. Implement the agreed proposals. | | | | |
| | daily. | | | Resubmit proposals if problem still not under control. | | | | |
| | 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. | | properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the | 5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated. | | | | |
| | Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken. | | Contractor to stop that activity of work until the exceedance is abated. | | | | | |
| | Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and | | | | | | | |

the SOR informed of the results.

8. If exceedance stops cease additional monitoring.

Appendix J2Event/ Action Plan for Construction Noise

| | ACTION | | | | | | | | | |
|--|--|--|---|--|--|--|--|--|--|--|
| EVENT | ET | IEC | SOR | Contractor | | | | | | |
| Action Level | Notify the IEC and the Contractor. Carry out investigation. | Review the analysed results submitted by the ET. | 1. Confirm receipt of notification of failure in writing. | 1. Submit noise mitigation proposal to IEC | | | | | | |
| | Carry out investigation. Report the results of investigation to the IEC and the Contractor. | measures by the Contractor and | Notify the Contractor. Require the Contractor to propose | 2. Implement noise mitigation proposals | | | | | | |
| | Discuss with the Contractor and formulate remedial measures. | advise the SOR accordingly.3. Supervise the implementation of | remedial measures for the analysed noise problem. | | | | | | | |
| | Increase monitoring frequency to check mitigation effectiveness. | remedial measures. | 4. Ensure remedial measures are properly implemented. | | | | | | | |
| Limit Level | Notify the IEC, the SOR, the DEP and the Contractor. | and the Contractor on the potential | 1. Confirm receipt of notification of failure in writing. | 1. Take immediate action to avoid further exceedance | | | | | | |
| | 2. Identify the source. | remedial actions. | 2. Notify the Contractor. | 2. Submit proposals for remedial | | | | | | |
| | Repeat measurement to confirm findings. | 2. Review the Contractor's remedial actions whenever necessary to | 3. Require the Contractor to propose remedial measures for the analysed | actions to IEC within 3 working days of notification | | | | | | |
| | 4. Increase monitoring frequency. | assure their effectiveness and advise the SOR accordingly. | noise problem. | 3. Implement the agreed proposals | | | | | | |
| | Carry out analysis of Contractor's working procedures to determine | 3. Supervise the implementation of | 4. Ensure remedial measures are properly implemented. | Resubmit proposals if problem st not under control | | | | | | |
| | Temediai measures. | 5. If exceedance continues, consider what activity of the work is | 5. Stop the relevant activity of works as determined by the SOR until th | | | | | | | |
| 6. Inform the IEC, the SOR and the DEP the causes & actions taken for the exceedances. | responsible and instruct the Contractor to stop that activity of work until the exceedance is abated | exceedance is abated. | | | | | | | | |
| | Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. | | | | | | | | | |
| | 8. If exceedance stops, cease additiona monitoring. | 1 | | | | | | | | |

| Event | ET | Leader | | IEC | S | OR | | Contractor |
|--|----|---|----|--|----|---|------|--|
| Action level being exceeded by one sampling day | 1. | Repeat in situ measurement on next day of exceedance to confirm findings; | 1. | Check monitoring data submitted by ET and Contractor's working methods. | 1. | Confirm receipt of notification of non-compliance in writing; | 1. | Inform the SOR and confirm notification of the non- compliance in writing; |
| | 2. | Identify source(s) of impact; | | | 2. | Notify Contractor. | 2. | Rectify unacceptable practice; |
| | 3. | Inform IEC, contractor and SOR; | | | | | 3. | Amend working methods if appropriate. |
| | 4. | Check monitoring data, all plant, equipment and Contractor's working methods. | | | | | | |
| Action level being exceeded by two or more consecutive sampling days | 1. | Repeat measurement on next day of exceedance to confirm findings; | 1. | Check monitoring data submitted by ET and Contractor's working method; | 1. | Discuss with IEC on the proposed mitigation measures; | 1. | Inform the Supervising Officer and confirm notification of the non- |
| | 2. | Identify source(s) of impact; | 2. | Discuss with ET and Contractor | 2. | Ensure mitigation manufactures | | compliance in writing; |
| | 3. | Inform IEC, contractor, SOR and EPD; | ۷. | on possible remedial actions; | ۷. | Ensure mitigation measures are properly implemented; | 2. | Rectify unacceptable practice; |
| | 4. | Check monitoring data, all plant, equipment and Contractor's working methods; | 3. | Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly; | 3. | Assess the effectiveness of the implemented mitigation measures. | 3. | Check all plant and equipment and consider changes of working methods; |
| | 5. | Discuss mitigation measures with IEC, SOR and Contractor; | 4. | Supervise the implementation of | | | 4. | Submit proposal of additiona mitigation measures to SOR |
| | 6. | Ensure mitigation measures are implemented; | | mitigation measures. | | | | within 3 working days of notification and discuss with ET, IEC and SOR; |
| | 7. | Increase the monitoring frequency to daily until no exceedance of Action level; | | | | | 5. | Implement the agreed mitigation measures. |
| Limit level being exceeded by one sampling day | 1. | Repeat measurement on next day of exceedance to confirm findings; | 1. | Check monitoring data submitted by ET and Contractor's working method; | 1. | Confirm receipt of notification of failure in writing; | ı 1. | Inform the SOR and confirm notification of the non- compliance in writing; |
| | 2. | Identify source(s) of impact; | 2. | Discuss with ET and Contractor | 2. | Discuss with IEC, ET and Contractor on the proposed | 2. | Rectify unacceptable practice; |

Appendix J3Event/Action Plan for Water Quality

| Event | ET | Leader | | IEC | SO | R | | Contractor |
|---|----|---|----|--|----|--|----|---|
| | 3. | Inform IEC, contractor, SOR and EPD; | | on possible remedial actions; | | mitigation measures; | | |
| | 4. | Check monitoring data, all plant, equipment and Contractor's working methods; | 3. | Review the proposed mitigation 3 measures submitted by Contractor and advise the SOR | | Request Contractor to review the working methods. | 3. | Check all plant and equipment and consider changes of working methods; |
| | 5. | Discuss mitigation measures with IEC, SOR and Contractor; | | accordingly. | | | 4. | Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR. |
| Limit level being exceeded by two or more consecutive | 1. | Repeat measurement on next day of exceedance to confirm findings; | 1. | Check monitoring data submitted by ET and Contractor's working method; | | 1. Discuss with IEC, ET and Contractor on the proposed mitigation | 1. | Take immediate action to avoid further exceedance; |
| sampling days | 2. | Identify source(s) of impact; | | U | | measures; | 2. | Submit proposal of mitigation |
| | 3. | Inform IEC, contractor, SOR and EPD; | 2. | Discuss with ET and Contractor on possible remedial actions; | | Request Contractor to critically review the working methods; | | measures to SOR within 3 working days of notification and discuss with ET, IEC and |
| | 4. | Check monitoring data, all plant, equipment and Contractor's working | 3. | Review the Contractor's mitigation measures whenever | | 3. Make agreement on the mitigation measures to be | | SOR; |
| | | methods; | | necessary to assure their effectiveness and advise the | | implemented; 4. | 3. | Implement the agreed mitigation measures; |
| | 5. | Discuss mitigation measures with IEC, SOR and Contractor; | | SOR accordingly; | | 5. Ensure mitigation measures are properly implemented; | 4 | Resubmit proposals of |
| | | ile, son and contractor, | 4. | Supervise the implementation | | 6. | т. | mitigation measures if |
| | 6. | Ensure mitigation measures are implemented; | | of mitigation measures. | | 7. Consider and instruct, if necessary, the Contractor to slow down or to stop all | | problem still not under control; |
| | 7. | Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days; | | | | or part of the construction activities until no exceedance of Limit level. | 5. | As directed by the Supervising Officer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level. |

| Event | ET Leader | IEC | SOR | Contractor |
|--------------|--|--|---|--|
| Action Level | 1. Repeat statistical data analysis to confirm findings; | 1. Check monitoring data submitted by ET and Contractor; | 1. Discuss monitoring with the IEC and any other measures | 1. Inform the SOR and confirm notification of the non- |
| | 2. Review all available and relevant data, including | | proposed by the ET; | compliance in writing; |
| | raw data and statistical analysis results of other | 2. Discuss monitoring results and | | |
| | parameters covered in the EM&A, to ascertain if | findings with the ET and the | 2. If SOR is satisfied with the | 2. Discuss with the ET and the |
| | differences are as a result of natural variation or | Contractor. | proposal of any other measures, | IEC and propose measures to |
| | previously observed seasonal differences; | | SOR to signify the agreement in | the IEC and the SOR; |
| | | | writing on the measures to be | |
| | 3. Identify source(s) of impact; | | implemented. | 3. Implement the agreed |
| | | | - | measures. |
| | 4. Inform the IEC, SOR and Contractor; | | | |

Appendix J4 Implementation of Event-Action Plan for Dolphin Monitoring

5. Check monitoring data.

6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.

| Event ET Leader | I | IEC | SC | OR | Contractor |
|--|--|--|----|----|--|
| Limit Level1. Repeat statistical da2. Review all available raw data and statist parameters covered differences are as a previously observed 3. Identify source(s) of 4. Inform the IEC, ER/ findings; 5. Check monitoring d 6. Repeat review to en measures are fully a advise on additiona 7. If ET proves that the any of the construct contract, ET to arran IEC, ER/SOR and C additional dolphin modify the perimete control/temporarily activity etc.) and sultable | ta analysis to confirm findings; 1 and relevant data, including cal analysis results of other 2 in the EM&A, to ascertain if result of natural variation or seasonal differences; 3 impact; SOR and Contractor of ata; sure all the dolphin protective 4 nd properly implemented and measures if necessary; source of impact is caused by on activity by the works ge a meeting to discuss with ontractor the necessity of 5 nonitoring and/or any other measures (e.g., consider to r silt curtain or consider to stop relevant construction pomit to IEC a proposal of nonitoring and/or mitigation | Check monitoring data submitted by ET and Contractor; Discuss monitoring results and findings with the ET and the Contractor; Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. | 1. | | Inform the ER/SOR and confirm notification of the non- compliance in writing; Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; Implement the agreed additional dolphin monitoring and/or any other mitigation measures. |

| EVENT | | ACTION | | |
|--|--|---|--|--|
| | ET Leader | IEC | SO | Contractor |
| Action Level | | | | |
| With the numerical values presented in <i>Table 5.7</i> of <i>Baseline Monitoring Report</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 20% lower or higher than that recorded in the baseline monitoring (see <i>Table 5.8</i> of <i>Baseline Monitoring Report</i>), or when there is a difference of 20% in dolphin acoustic signal detection at nighttime period at Site C1 only, the action level should be triggered | Repeat statistical data analysis to confirm findings; Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences; Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary | Check monitoring data submitted by ET and Contractor; Discuss monitoring with the ET and the Contractor; | Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; Make agreement on measures to be implemented. | Inform the SO and confirm notification of the non- compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO; Implement the agreed measures. |

Appendix J5Event and Action Plan on Dolphin Acoustic Behaviour

| EVENT | | ACTION | | |
|---|--|---|--|--|
| | ET Leader | IEC | SO | Contractor |
| Limit Level | | | | |
| With the numerical values presented in <i>Table 5.7</i> of <i>Baseline Monitoring Report</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 40% lower or higher than that recorded in the baseline monitoring (see <i>Table 5.8</i> of <i>Baseline</i> <i>Monitoring Report</i>), or when there is a difference of 40% in dolphin acoustic signal detection at nighttime at Site C1 only, the limit level should be triggered | Repeat statistical data analysis to confirm findings; Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences; Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary Discuss additional dolphin monitoring and any other potential mitigation measures (eg consider to temporarily stop relevant portion of construction activity) with the IEC and Contractor. | Check monitoring data submitted by ET and Contractor; Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise ER accordingly. | Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; Make agreement on measures to be implemented. | Inform the SO and confirm notification of the non- compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO; Implement the agreed measures. |

Abbreviations: ET - Environmental Team, IEC - Independent Environmental Checker, SO - Supervising Office, DEP - Director of Environmental Protection

Appendix K Quarterly Summary of Waste Flow Table

Contract No. : HY/2012/07 Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section Monthly Summary Waste Flow Table for 2015 (Year)

| | | Actual Qu | antities of Inert | C&D Materials G | Generation | | | Actua | al Quantities of C | C&D wastes Ger | neration | | Actua | I Quantities of R | ecyclables Gene | ration |
|----------------|-----------------------------|---|---------------------------|--------------------------|-----------------------------|-----------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------|----------------|----------|-------------------|----------------------------------|----------|
| Month\Material | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fills | Imported Fill | Marine Sediment, Cat. L | Marine Sediment, Cat. Mp | Marine Sediment, Cat. Mf | Marine Sediment, Cat. H | Chemical Waste | General Refuse | Metals | Felled trees | Paper/ cardboard packaging | Plastics |
| Unit | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000Kg) | ('000Kg) | ('000Kg) | ('000Kg) | ('000Kg) | ('000Kg) |
| Jan | 13.578 | 0.081 | 0.990 | - | 12.474 | 0.115 | 0.178 | 0.229 | 0.258 | - | - | 132.170 | - | - | 0.091 | - |
| Feb | 6.233 | 0.148 | 0.461 | - | 5.759 | 0.014 | 0.801 | 0.110 | 0.223 | - | 0.400 | 141.020 | - | - | 0.112 | - |
| Mar | 10.149 | 0.220 | 0.473 | - | 9.600 | 0.077 | 0.618 | 0.073 | 0.149 | - | - | 120.940 | - | - | 0.203 | - |
| Apr | 9.986 | 0.410 | 2.261 | - | 7.694 | 0.032 | - | - | - | - | - | 133.630 | - | - | 0.105 | - |
| May | 8.743 | 0.177 | 0.653 | - | 8.091 | - | 0.550 | - | - | - | - | 107.920 | - | - | 0.042 | - |
| Jun | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SUB-TOTAL | 48.691 | 1.036 | 4.836 | - | 43.616 | 0.238 | 2.147 | 0.412 | 0.630 | - | 0.400 | 635.680 | - | 0.000 | 0.553 | - |
| Jul | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Aug | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sep | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Oct | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nov | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dec | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 48.691 | 1.036 | 4.836 | - | 43.616 | 0.238 | 2.147 | 0.412 | 0.630 | - | 0.400 | 635.680 | - | - | 0.553 | - |

Notes :

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

2 - Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

3 - Broken concrete for recycling into aggregates.

4 - Assumed 5 kg per damaged water-filled barrier.

5 - Disposed as Public Fills includes Hard Rock and Large Broken Concrete.

Appendix L

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Appendix L1 Cumulative Statistics on Exceedances

| | | Total No. recorded in this quarter | Total No. recorded since project commencement |
|----------------|--------|------------------------------------|---|
| 1-Hr TSP | Action | 0 | 0 |
| | Limit | 0 | 0 |
| 24-Hr TSP | Action | 0 | 2 |
| | Limit | 0 | 0 |
| Noise | Action | 0 | 0 |
| | Limit | 0 | 0 |
| Water Quality | Action | 1 | 2 |
| | Limit | 0 | 0 |
| Impact Dolphin | Action | 0 | 7 |
| Monitoring | Limit | 1 | 2 |

Appendix L2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

| Reporting Period | Cumulative Statistics | | | | | | | | |
|---|-----------------------|------------------|--------------|--|--|--|--|--|--|
| — | Complaints | Notifications of | Successful | | | | | | |
| | | Summons | Prosecutions | | | | | | |
| This quarter | 0 | 0 | 0 | | | | | | |
| Total No. received since project commencement | 2 | 0 | 0 | | | | | | |

Email message

| nicssage | | Management |
|--------------------|--|--|
| То | ENVIRON - Hong Kong, Limited (ENPO) | 16/F Berkshire House, 25 Westlands Road Quarry Bay, Hong Kong |
| From | ERM- Hong Kong, Limited | Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jovy.tam@erm.com |
| Ref/Project number | Contract No. HY/2012/07 | |
| | Tuen Mun – Chek Lap Kok Link – Southern | |
| | Connection Viaduct Section | |
| Subject | Notification of Exceedance for Marine Water Quality Impact Monitoring | |
| Date | 3 June 2015 | ERM |

Environmental Resources

Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

Action Level Exceedance: 0215660_19 May 2015_ SS_E_Station SR4a

Recorded on 19 May 2015.

Regards,

Mr Jovy Tam Environmental Team Leader

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ERM-Hong Kong, Limited



CONTRACT NO. HY/2012/07 TUEN MUN – CHEK LAP KOK LINK – SOUTHERN CONNECTION VIADUCT SECTION

Marine Water Quality Impact Monitoring

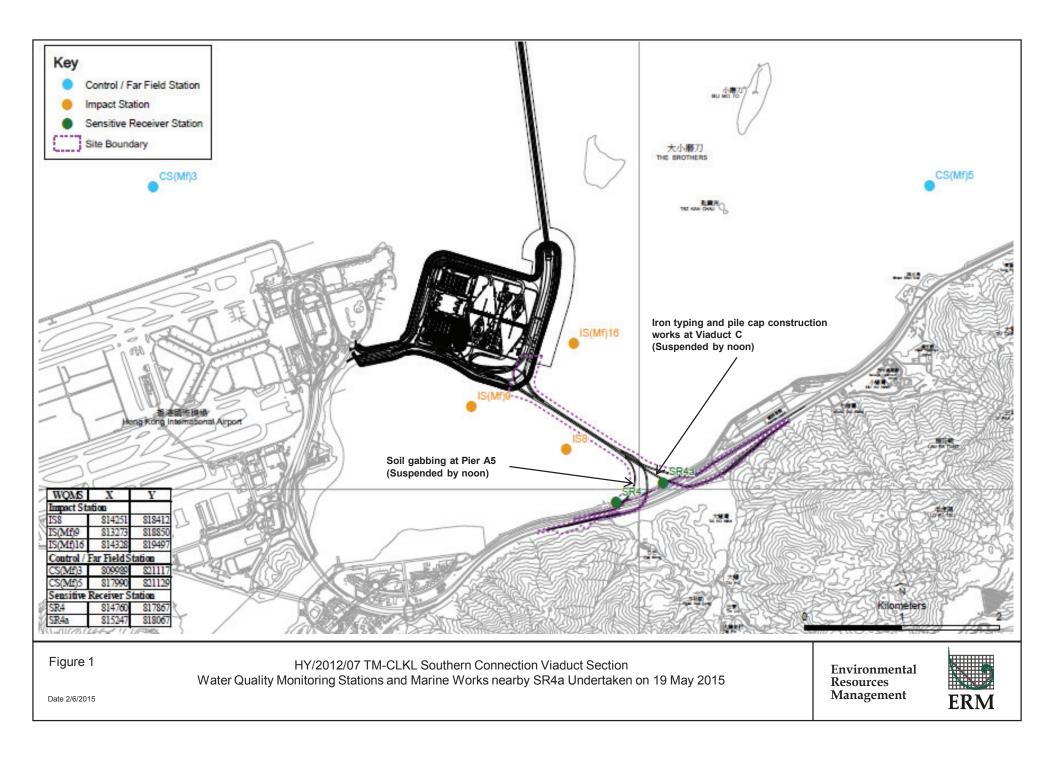
Notification of Exceedance

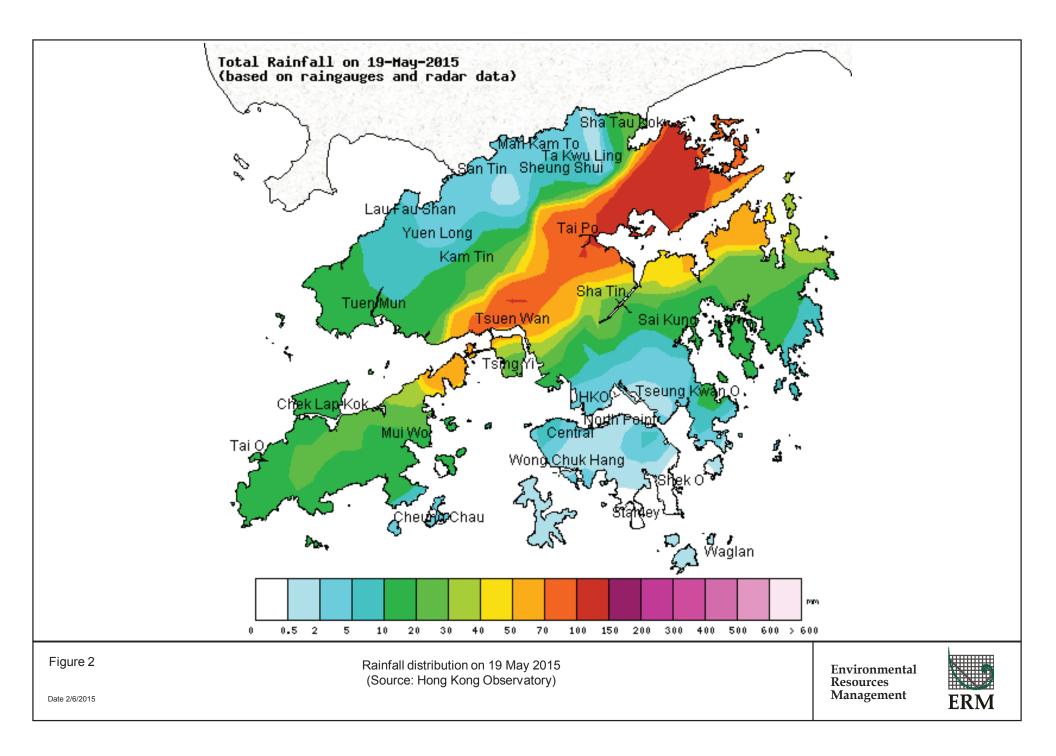
| Log No. | 021 | 5660_19 May 2015_ SS_E_Station SR4a | | | | | | | | |
|------------------------|---|--|--|--|--|--|--|--|--|--|
| | [Total No. of Exceedances = 1] | | | | | | | | | |
| Date | | 19 May 2015 (Measured) | | | | | | | | |
| | 21 May 2015 (In situ results received by ERM) | | | | | | | | | |
| | 26 May | 26 May 2015 (Laboratory results received by ERM) | | | | | | | | |
| Monitoring Station | CS(Mf) | 5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3 | | | | | | | | |
| Parameter(s) with | L. L | North avone and Guaran dad Calida (CC) | | | | | | | | |
| Exceedance(s) | L | epth-averaged Suspended Solids (SS) | | | | | | | | |
| Action Levels | SS | 95%-ile of baseline data (23.5 mg/L) and 120% of upstream control | | | | | | | | |
| | | station on same day at same tide (32.5 mg/L) | | | | | | | | |
| Limit Levels | SS | 99%-ile of baseline data (34.4 mg/L) and 130% of upstream control | | | | | | | | |
| | | station on same day at same tide (35.2 mg/L) | | | | | | | | |
| Measured Levels | Action Level Exceedance was ob | oserved at SR4a (33.6 mg/L) during mid-ebb tide. | | | | | | | | |
| Works Undertaken (at | Marine works on 19 May 2015 a | t the nearby marine platforms were: | | | | | | | | |
| the time of monitoring | • Soil grabbing at Pier A5; | | | | | | | | | |
| event) | • Iron typing and pile cap co | onstruction works at platforms of Viaduct C. | | | | | | | | |
| | There were no bored piling wor | ks at the nearby marine platforms of Viaducts B, C and D. The | | | | | | | | |
| | aforesaid works were suspended | d before sampling at mid-ebb tide (12:03 to 15:33) due to adverse | | | | | | | | |
| | weather. | | | | | | | | | |
| Possible Reason for | The exceedance of depth-averag | ed SS at SR4a during mid-ebb tide is unlikely to be due to the | | | | | | | | |
| Action or Limit Level | Project, in view of the following | | | | | | | | | |
| Exceedance(s) | • The marine works nearby SR4a (13:39). | monitoring station SR4a had been suspended before sampling at | | | | | | | | |
| | | so observed in all monitoring stations on the same day which may | | | | | | | | |
| | | infall on 19 May 2015. Apart from SR4a during mid-ebb tide, the | | | | | | | | |
| | 0 | ng stations were in compliance with the Action and Limit Levels | | | | | | | | |
| | during both mid-ebb and i | • | | | | | | | | |
| | ° . | lity and dissolved oxygen levels in all monitoring stations on during | | | | | | | | |
| | | od tides were in compliance with the Action and Limit Levels. | | | | | | | | |
| | | narine platforms were checked and in function. There was also no | | | | | | | | |
| | waste water runoff recorde | * | | | | | | | | |
| | No malpractice was observed | ved during the sampling process. | | | | | | | | |
| Actions Taken / To Be | _ | red necessary. The contractor is reminded to properly implement | | | | | | | | |
| Taken | | ed in EM&A Manual. The ET will monitor for future trends in | | | | | | | | |
| | exceedances. | | | | | | | | | |
| Remarks | The monitoring results, location | s of water quality monitoring stations and rainfall distribution on 19 | | | | | | | | |
| | May 2015 are attached. | | | | | | | | | |
| | - | | | | | | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Stat | Level | Water Depth | Lev_Cod | Replicate | Start Time | Temp_v | pH_v | Sal_v | DO_v | Turb_v | SS_v |
|---------|------------|-------------------|-----------|---------|----------|---------|-------------|---------|-----------|------------|--------|------|-------|------|--------|------|
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)5 | Surface | 1 | 1 | 1 | 19:00 | 26.1 | 6.93 | 20.5 | 6.81 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)5 | Surface | 1 | 1 | 2 | 19:00 | 26 | 6.96 | 20.4 | 6.86 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)5 | Middle | 6.6 | 2 | 1 | 19:00 | 26.3 | 7.04 | 21.2 | 6.73 | 20.4 | 27.8 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)5 | Middle | 6.6 | 2 | 2 | 19:00 | 26.2 | 7.08 | 21.3 | 6.76 | 20.4 | 27.0 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)5 | Bottom | 12.2 | 3 | 1 | 19:00 | 26.4 | 7.1 | 21.8 | 6.5 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)5 | Bottom | 12.2 | 3 | 2 | 19:00 | 26.5 | 7.08 | 21.9 | 6.52 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4a | Surface | 1 | 1 | 1 | 19:19 | 26.2 | 7.11 | 20.3 | 6.63 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4a | Surface | 1 | 1 | 2 | 19:19 | 26.1 | 7.07 | 20.4 | 6.58 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4a | Middle | | 2 | 1 | 19:19 | | | | | 21.3 | 29.4 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4a | Middle | | 2 | 2 | 19:19 | | | | | 21.5 | 29.4 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4a | Bottom | 3.8 | 3 | 1 | 19:19 | 26.3 | 6.93 | 20.4 | 6.38 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4a | Bottom | 3.8 | 3 | 2 | 19:19 | 26.2 | 6.99 | 20.5 | 6.34 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4 | Surface | 1 | 1 | 1 | 19:33 | 26.1 | 6.89 | 20.5 | 6.53 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4 | Surface | 1 | 1 | 2 | 19:33 | 26 | 6.84 | 20.6 | 6.57 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4 | Middle | | 2 | 1 | 19:33 | | | | | 10.1 | 26.7 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4 | Middle | | 2 | 2 | 19:33 | | | | | 19.1 | 26.7 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4 | Bottom | 3.3 | 3 | 1 | 19:33 | 26.2 | 6.73 | 20.6 | 6.32 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | SR4 | Bottom | 3.3 | 3 | 2 | 19:33 | 26.1 | 6.75 | 20.6 | 6.37 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS8 | Surface | 1 | 1 | 1 | 19:46 | 26.2 | 6.74 | 20.4 | 6.67 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS8 | Surface | 1 | 1 | 2 | 19:46 | 26.1 | 6.76 | 20.3 | 6.71 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS8 | Middle | | 2 | 1 | 19:46 | | | | | 20.1 | 20.1 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS8 | Middle | | 2 | 2 | 19:46 | | | | | 20.1 | 28.1 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS8 | Bottom | 3.1 | 3 | 1 | 19:46 | 26.1 | 6.81 | 20.3 | 6.48 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS8 | Bottom | 3.1 | 3 | 2 | 19:46 | 26.2 | 6.77 | 20.3 | 6.42 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS(Mf)16 | Surface | 1 | 1 | 1 | 20:01 | 26.2 | 6.63 | 20.4 | 6.56 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS(Mf)16 | Surface | 1 | 1 | 2 | 20:01 | 26.2 | 6.68 | 20.3 | 6.52 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS(Mf)16 | Middle | 5.3 | 2 | 1 | 20:01 | 26.4 | 6.79 | 20.6 | 6.43 | 21.0 | 20.0 |
| TMCLKL | HY/2012/07 | | Mid-Flood | | | Middle | 5.3 | 2 | 2 | 20:01 | 26.3 | 6.8 | 20.5 | 6.47 | 21.0 | 28.0 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS(Mf)16 | Bottom | 9.6 | 3 | 1 | 20:01 | 26.6 | 6.87 | 21.1 | 6.28 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS(Mf)16 | Bottom | 9.6 | 3 | 2 | 20:01 | 26.5 | 6.92 | 21.2 | 6.22 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS(Mf)9 | Surface | 1 | 1 | 1 | 20:19 | 26.2 | 6.89 | 20.6 | 6.56 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS(Mf)9 | Surface | 1 | 1 | 2 | 20:19 | 26.1 | 6.9 | 20.5 | 6.59 | | |
| TMCLKL | HY/2012/07 | | Mid-Flood | | IS(Mf)9 | Middle | | 2 | 1 | 20:19 | | | | | 20.5 | 20.2 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS(Mf)9 | Middle | | 2 | 2 | 20:19 | | | | | 20.5 | 28.3 |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Stat | Level | Water Depth | Lev_Cod | Replicate | Start Time | Temp_v | pH_v | Sal_v | DO_v | Turb_v | SS_v |
|---------|------------|-------------------|-----------|---------|----------|---------|-------------|---------|-----------|------------|--------|------|-------|------|--------|------|
| TMCLKL | HY/2012/07 | | Mid-Flood | Cloudy | IS(Mf)9 | Bottom | 4.4 | 3 | 1 | 20:19 | 26.1 | 6.86 | 20.8 | 6.49 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | IS(Mf)9 | Bottom | 4.4 | 3 | 2 | 20:19 | 26.1 | 6.85 | 20.8 | 6.47 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)3 | Surface | 1 | 1 | 1 | 20:38 | 26.1 | 7.04 | 20.7 | 6.67 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)3 | Surface | 1 | 1 | 2 | 20:38 | 26 | 7.07 | 20.8 | 6.71 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)3 | Middle | 6.3 | 2 | 1 | 20:38 | 25.9 | 7.11 | 20.5 | 6.62 | 17.4 | 24.5 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)3 | Middle | 6.3 | 2 | 2 | 20:38 | 26 | 7.13 | 20.6 | 6.65 | 17.4 | 24.3 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)3 | Bottom | 11.6 | 3 | 1 | 20:38 | 26.3 | 6.96 | 21.8 | 6.47 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Flood | Cloudy | CS(Mf)3 | Bottom | 11.6 | 3 | 2 | 20:38 | 26.4 | 6.98 | 21.9 | 6.41 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)3 | Surface | 1 | 1 | 1 | 12:03 | 26.4 | 6.98 | 20.6 | 6.54 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)3 | Surface | 1 | 1 | 2 | 12:03 | 26.4 | 7.01 | 20.5 | 6.56 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)3 | Middle | 6.1 | 2 | 1 | 12:03 | 26.4 | 6.94 | 20.9 | 6.66 | 19.5 | 27.1 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)3 | Middle | 6.1 | 2 | 2 | 12:03 | 26.5 | 6.96 | 21 | 6.63 | 19.5 | 27.1 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)3 | Bottom | 11.2 | 3 | 1 | 12:03 | 26.6 | 6.87 | 21.3 | 6.38 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)3 | Bottom | 11.2 | 3 | 2 | 12:03 | 26.7 | 6.9 | 21.4 | 6.41 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4a | Surface | 1 | 1 | 1 | 13:39 | 26.6 | 7.01 | 20.1 | 6.52 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4a | Surface | 1 | 1 | 2 | 13:39 | 26.6 | 6.97 | 20.2 | 6.48 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4a | Middle | | 2 | 1 | 13:39 | | | | | 23.7 | 33.6 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4a | Middle | | 2 | 2 | 13:39 | | | | | 23.1 | 55.0 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4a | Bottom | 3.2 | 3 | 1 | 13:39 | 26.6 | 6.86 | 20.7 | 6.27 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4a | Bottom | 3.2 | 3 | 2 | 13:39 | 26.6 | 6.89 | 20.6 | 6.31 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4 | Surface | 1 | 1 | 1 | 13:21 | 26.6 | 6.78 | 20.2 | 6.41 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4 | Surface | 1 | 1 | 2 | 13:21 | 26.6 | 6.8 | 20.3 | 6.39 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4 | Middle | | 2 | 1 | 13:21 | | | | | 22.4 | 31.6 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4 | Middle | | 2 | 2 | 13:21 | | | | | 22.4 | 51.0 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4 | Bottom | 3 | 3 | 1 | 13:21 | 26.6 | 6.67 | 20.6 | 6.18 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | SR4 | Bottom | 3 | 3 | 2 | 13:21 | 26.5 | 6.7 | 20.5 | 6.16 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS8 | Surface | 1 | 1 | 1 | 13:05 | 26.5 | 6.72 | 20.1 | 6.53 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS8 | Surface | 1 | 1 | 2 | 13:05 | 26.6 | 6.76 | 20.2 | 6.49 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS8 | Middle | | 2 | 1 | 13:05 | | | | | 22.0 | 30.4 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS8 | Middle | | 2 | 2 | 13:05 | | | | | 22.0 | 30.4 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS8 | Bottom | 2.9 | 3 | 1 | 13:05 | 26.5 | 6.75 | 20.4 | 6.35 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS8 | Bottom | 2.9 | 3 | 2 | 13:05 | 26.4 | 6.79 | 20.4 | 6.31 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)16 | Surface | 1 | 1 | 1 | 12:43 | 26.5 | 6.78 | 20.2 | 6.38 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)16 | Surface | 1 | 1 | 2 | 12:43 | 26.5 | 6.8 | 20.2 | 6.34 | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Stat | Level | Water Depth | Lev_Cod | Replicate | Start Time | Temp_v | pH_v | Sal_v | DO_v | Turb_v | SS_v |
|---------|------------|-------------------|---------|---------|----------|---------|-------------|---------|-----------|------------|--------|------|-------|------|--------|------|
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)16 | Middle | 5 | 2 | 1 | 12:43 | 26.5 | 6.74 | 20.4 | 6.41 | 20.8 | 28.9 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)16 | Middle | 5 | 2 | 2 | 12:43 | 26.4 | 6.77 | 20.5 | 6.42 | 20.0 | 20.9 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)16 | Bottom | 8.9 | 3 | 1 | 12:43 | 26.6 | 6.82 | 20.8 | 6.2 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)16 | Bottom | 8.9 | 3 | 2 | 12:43 | 26.7 | 6.79 | 20.7 | 6.17 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)9 | Surface | 1 | 1 | 1 | 12:26 | 26.4 | 6.84 | 20.4 | 6.47 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)9 | Surface | 1 | 1 | 2 | 12:26 | 26.5 | 6.87 | 20.4 | 6.44 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)9 | Middle | | 2 | 1 | 12:26 | | | | | 21.0 | 31.5 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)9 | Middle | | 2 | 2 | 12:26 | | | | | 21.0 | 51.5 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)9 | Bottom | 4 | 3 | 1 | 12:26 | 26.5 | 6.79 | 20.7 | 6.53 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | IS(Mf)9 | Bottom | 4 | 3 | 2 | 12:26 | 26.5 | 6.81 | 20.8 | 6.56 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)5 | Surface | 1 | 1 | 1 | 13:55 | 26.6 | 6.89 | 20.2 | 6.74 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)5 | Surface | 1 | 1 | 2 | 13:55 | 26.5 | 6.85 | 20.3 | 6.7 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)5 | Middle | 6.5 | 2 | 1 | 13:55 | 26.5 | 6.93 | 20.8 | 6.63 | 22.1 | 31.6 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)5 | Middle | 6.5 | 2 | 2 | 13:55 | 26.5 | 6.9 | 23.9 | 6.65 | 22.1 | 51.0 |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)5 | Bottom | 11.9 | 3 | 1 | 13:55 | 26.6 | 6.96 | 21.6 | 6.34 | | |
| TMCLKL | HY/2012/07 | 2015-05-19 | Mid-Ebb | Cloudy | CS(Mf)5 | Bottom | 11.9 | 3 | 2 | 13:55 | 26.7 | 6.99 | 21.5 | 6.36 | | |





То

From

Subject

Date

Environmental Resources Management

16/F Berkshire House, 25 Westlands Road Quarry Bay, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jovy.tam@erm.com



Dear Sir or Madam,

Ref/Project number

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

Monitoring

19 October 2015

ENVIRON - Hong Kong, Limited (ENPO)

Contract No. HY/2012/07 Tuen Mun–Chek Lap Kok Link–Southern Connection Viaduct Section

Notification of Exceedance for Impact Dolphin

ERM-Hong Kong, Limited

0215660_Mar2015/May2015_dolphin_STG&ANI_NEL&NWL

A total of one limit level exceedance was recorded in the quarterly impact dolphin monitoring data between March and May 2015.

Regards,

Mr Jovy Tam Environmental Team Leader

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ERM-Hong Kong, Limited



Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

Impact Dolphin Monitoring Notification of Exceedance

| Log No. | 0215660_Mar2014/May2015_dolphin_STG&ANI_NEL&NWL [Total No. of Exceedance = 1] | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|
| | [Total No. of Exceedance = 1] | | | | | | | | | | |
| Date | March 2015 to May 2015 (monitored) | | | | | | | | | | |
| | 1 September 2015 (results received by ERM) | | | | | | | | | | |
| Monitoring Area | Northeast | Lantau (NEL) and Northwest Lantau (NWL) | | | | | | | | | |
| Parameter(s) with | Quarterl | y encounter rate of dolphin sightings (STG) | | | | | | | | | |
| Exceedance(s) | Quarterly er | ncounter rate of total number of dolphins (ANI) | | | | | | | | | |
| Action Levels | NEL: STG < 4.2 & ANI < 15.5 | | | | | | | | | | |
| | or NWL: STG < 6.9 & ANI < 31.3 | | | | | | | | | | |
| Limit Levels | North Lantau Social cluster | NWL: STG < 0.9 & ANI < 31.5 NEL: STG < 2.4 & ANI < 8.9 | | | | | | | | | |
| Limit Levels | | NEL: 51G < 2.4 & ANI < 8.9 and | | | | | | | | | |
| | | NWL: STG< 3.9 & ANI < 17.9 | | | | | | | | | |
| Recorded Levels | NEL | STG = 0.0 & ANI = 0.0 | | | | | | | | | |
| | NWL | STG = 0.47 & ANI = 2.36 | | | | | | | | | |
| | | corded in the quarterly impact dolphin monitoring at NEL and | | | | | | | | | |
| | | 015. The exceedance was reported in the approved <i>Nineteenth</i> | | | | | | | | | |
| | Monthly EM&A Report dated 9 Ju | | | | | | | | | | |
| Statistical Analyses | | able and relevant dolphin monitoring data in the EM&A under this | | | | | | | | | |
| | Contract, statistical analyses were | i ü | | | | | | | | | |
| | - | repeated measures and unequal sample size was conducted using | | | | | | | | | |
| | - | s impact – present impact quarter, March to May 2015) and | | | | | | | | | |
| | | d NWL) as fixed factors to examine whether there were any | | | | | | | | | |
| | significant differences in th | ne averages encounter rates between the baseline and present | | | | | | | | | |
| | impact monitoring quarter | . By setting $\alpha = 0.05$ as the significance level in the statistical tests, | | | | | | | | | |
| | significant difference in ST | G ($p = 0.0015$) and in ANI ($p = 0.0139$) between Period were | | | | | | | | | |
| | detected. | | | | | | | | | | |
| | | repeated measures and unequal sample size was conducted using | | | | | | | | | |
| | | s: baseline vs impact – cumulative quarters, December 2012 to May | | | | | | | | | |
| | | s: NEL and NWL) as fixed factors to examine whether there were | | | | | | | | | |
| | | in the averages encounter rates between the baseline and ring quarter. By setting $\alpha = 0.01$ as the significance level in the | | | | | | | | | |
| | - | difference in STG ($p = 0.0004$) and in ANI ($p = 0.0001$) between | | | | | | | | | |
| | Cumulative Period and Lo | | | | | | | | | | |
| | | thate under <i>Contract No. HY/2012/07</i> is 31 October 2013. | | | | | | | | | |
| Works Undertaken (in | | 15 and May 2015, the major marine works under <i>Contract No</i> . | | | | | | | | | |
| the monitoring | <i>HY/2012/07</i> included: | | | | | | | | | | |
| quarter) | • Construction of Pile caps; | | | | | | | | | | |
| | Marine piling platform inst | Marine piling platform installation & uninstallation; | | | | | | | | | |
| | Pier Construction; | | | | | | | | | | |
| | Installation of launching gantry; | | | | | | | | | | |
| | Installation of pier head seg | | | | | | | | | | |
| | Marine Piling at Viaducts; a | | | | | | | | | | |
| | Additional marine ground i | investigation (GI) and laboratory testing. | | | | | | | | | |

| Possible Reason for | There is no direct evidence showing the exceedance is due to this Contract in view of the followings: |
|--|--|
| Action or Limit Level | |
| Action or Limit Level Exceedance(s) | The Monitoring of Marine Mammals in Hong Kong Waters (2014 – 15) ⁽¹⁾ reported that dolphin usage and traveling activities to the northern side of the airport (dolphin traveling corridor) are affected by frequent high-speed ferry traffic from Sky Pier (not related to this Contract), which is likely a major factor resulting in the decrease in dolphin abundances in North Lantau. As per the findings from the EIA report (<i>Section 8.11.9</i>), the major influences on the Chinese White Dolphin (CWD) Sousa chinensis under this Contract are marine traffics and bored piling works. The Contractor has implemented the marine traffic control as per the requirements in the <i>EP-354/2009/D</i> and the updated <i>EM&A Manual</i>. Likewise, the bored piling works were undertaken within a metal casing as described in the EP and the approved EIA Report. After reviewing of the bored piling records, the bored piling working rates in this quarter are within the allowable working rate described in the EP (<i>Clause 3.11</i>), in which construction works were not undertaken at more than 15 piers sites from March to May 2015. During this quarter of dolphin monitoring, no unacceptable impact on CWD due to the activities under this Contract was observed. According to the findings in the water quality monitoring results at the impact monitoring stations between March and May 2015, there was an Action Level exceedance on depth-averaged SS on 19 May 2015, however, the recorded exceedance was considered not related to this Contract, and thus no indirect impacts on marine habitat quality due to change in water quality is observed in this Contract. |
| Actions Taken / To Be | With reference to the site inspection records in this quarter, the respective marine ecological |
| Taken | mitigation measures (including 250 m dolphin exclusion zone, Passive Acoustic Monitoring (PAM) for night time works, acoustic decoupling plan, training to workers, marine vessels speed control and offsite travel route control) have been implemented properly by the Contractor throughout the marine works period. No immediate additional action is considered necessary. The ET will monitor for future trends in exceedance(s). |
| | A joint team meeting was held on 10 July 2015 for discussion on CWD trend, with attendance of ENPO, HyD, Representatives of Resident Site Staff (RSS), Environmental Team (ET) for Contract No. HY/2010/02, HY2011/03, HY/2012/07 and HY/2012/08, and Representatives of Main Contractor for Contract No. HY/2011/03 and HY/2012/08. The discussion/recommendation as recorded in the minutes of the meeting, which might be relevant to this Contract are summarized below. It was concluded that the HZMB works is one of the contributing factors affecting the dolphins. It was also concluded the contribution of impacts due to the HZMB works as a whole (or individual marine contracts) cannot be quantified nor separate from the other stress factors. It was reminded that the ETs shall keep reviewing the implementation status of the dolphin related mitigation measures and remind the contractor to ensure the relevant measures were fully implemented. The participants were requested by ENPO to collect and report the marine traffic statistics. It was recommended that the marine works of HZMB projects should be completed as soon as possible so as to reduce the overall duration of impacts and allow the dolphins population to recover as early as possible. |
| Remarks | The results of impact water quality and impact dolphin monitoring, the status of implemented marine ecological mitigation measures are documented in the approved <i>Seventeenth</i> to <i>Nineteenth Monthly EM&A Reports</i> . Comparison on water quality between impact and baseline periods will be elaborated in the 6 th Quarterly EM&A Report. |
| | |