

Shatin to Central Link - Hung Hom to Admiralty Section

Yearly Estimate - Jul 2013 to Jun 2014 (Area B)

Total works area = 1168 m²

Diversion of Canal Road Culvert & Removal of Piles (Source ID: CANAL_RD)

Activity 1- Site Clearence and Hoarding and Utility Diversion

| | | | | | | |
|-----------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Feb-14 | To: | 31-Mar-14 | Duration: | 2 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Excavator | 40 | 3.2 | 8 | 1 | 25.6 | 10.24 |
| Air compressor # | - | - | - | - | - | - |
| Lorry with crane/grab | 60 | 2.4 | 10 | 1 | 24 | 14.4 |
| Hand held breaker | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Dump Truck with grab | 60 | 2.4 | 10 | 1 | 24 | 14.4 |
| Welder/generator # | - | - | - | - | - | - |
| Total: | | | | | | 39.29 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 3.4% |
| | Percentage of Yearly Usage: | | | | | 0.56% |

Activity 2- Culvert Diversion

| | | | | | | |
|-------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Apr-14 | To: | 30-Jun-14 | Duration: | 3 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Mini Backhoe | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Dump Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Bar Bender and Cutter # | - | - | - | - | - | - |
| Concrete Mixer Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 27.2 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 2.3% |
| | Percentage of Yearly Usage: | | | | | 0.58% |

| | | |
|-----------------------------------|--|-------------|
| Combined Yearly Percentage | | 1.1% |
|-----------------------------------|--|-------------|

Shatin to Central Link - Hung Hom to Admiralty Section

Yearly Estimate - Jul 2013 to Jun 2014 (Area C to G)

Total works area = 13657 m²**EXH Station**

(ii) At PTI Area (Source ID: PTI)

Activity 1 - Construction of temporary Wan Chai Ferry Pier footbridge

| From: | 1-Jul-13 | To: | 30-Nov-13 | Duration: | 5 | months |
|---|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Welder/generator, portable # | - | - | - | - | - | - |
| Piling, large diameter bored, grab and chisel | 40 | 2.3 | 6 | 1 | 13.8 | 5.52 |
| Rock Drill | 30 | 2.3 | 6 | 1 | 13.8 | 4.14 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Excavator | 30 | 3.2 | 8 | 1 | 25.6 | 7.68 |
| Total: | | | | | | 24.54 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.07% |

Activity 2 - Demolition of existing Wan Chai Ferry Pier footbridge

| From: | 1-Dec-13 | To: | 31-Dec-13 | Duration: | 1 | months |
|----------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Saw,concrete | 30 | 1 | 2 | 1 | 2 | 0.6 |
| Air Compressor # | - | - | - | - | - | - |
| Hand Held breaker | 60 | 0.5 | 1 | 4 | 2 | 1.2 |
| Dump Truck with grab | 70 | 2.4 | 10 | 1 | 24 | 16.8 |
| Welder/generator # | - | - | - | - | - | - |
| Excavator | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Hydraulic breaker | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Total: | | | | | | 44.2 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.027% |

Activity 3 - Diaphragm Wall Construction

| From: | 1-Oct-13 | To: | 30-Jun-14 | Duration: | 9 | months |
|---|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Diaphragm wall, bentonite filtering plant | 40 | 10 | 20 | 1 | 200 | 80 |
| Bar Bender and cutter(electric) # | - | - | - | - | - | - |
| Crane, tower(electric) | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Crane, lorry, mobile | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 121.8 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.9% |
| | Percentage of Yearly Usage: | | | | | 0.669% |

Convention Avenue Launching Shaft Construction (Source ID: CACP)

Activity 1- Site Formation

| | | | | | | |
|---------------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Mar-14 | To: | 30-Apr-14 | Duration: | 2 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Dump truck with Grab | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Breaker, excavator mounted(hydraulic) | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Air Compressor # | - | - | - | - | - | - |
| Water Pump(electric) # | - | - | - | - | - | - |
| Saw, concrete | 30 | 1 | 2 | 1 | 2 | 0.6 |
| | | Total: | | | | 46.2 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.06% |

Activity 2- Site Hoarding Erection

| | | | | | | |
|----------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-May-14 | To: | 31-May-14 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Drill, hand-held(electric) | 100 | 0.5 | 1 | 1 | 0.5 | 0.5 |
| Generator # | - | - | - | - | - | - |
| Lorry with grab | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Welding set # | - | - | - | - | - | - |
| | | Total: | | | | 39.1 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.02% |

Activity 3- Diaphragm wall excavation

| | | | | | | |
|--|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jun-14 | To: | 30-Jun-14 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) # | - | - | - | - | - | - |
| Crawler Crane, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Piling, diaphragm wall, bentonite filtering plan | 100 | 10 | 20 | 1 | 200 | 200 |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Bentonite mixer | 100 | 10 | 20 | 1 | 200 | 200 |
| Welding Set # | - | - | - | - | - | - |
| | | Total: | | | | 445 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 3.3% |
| | Percentage of Yearly Usage: | | | | | 0.27% |

Activity 4- Diaphragm wall reinforcement fixing and concrete casting

| | | | | | | |
|--|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jun-14 | To: | 30-Jun-14 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) | - | - | - | - | - | - |
| Crawler Crane, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Piling, diaphragm wall, bentonite filtering plan | 100 | 10 | 20 | 1 | 200 | 200 |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Bar bender and cutter(electric) | - | - | - | - | - | - |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| | | Total: | | | | 269 |
| Activity 4 | Percentage of Usage Area to Works Area: | | | | | 2.0% |
| | Percentage of Yearly Usage: | | | | | 0.16% |

| | | | | | | |
|-----------------------------------|--|--|--|--|--|-------------|
| Combined Yearly Percentage | | | | | | 1.3% |
|-----------------------------------|--|--|--|--|--|-------------|

Shatin to Central Link - Hung Hom to Admiralty Section

Yearly Estimate - Jul 2014 to Jun 2015

Total works area = 5716 m2

HUH Landfall (Source ID: HLF)**Activity 1 - Cofferdam Wall Construction and Shear Pining**

| | | | | | | |
|-----------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jan-15 | To: | 30-Jun-15 | Duration: | 6 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Crawler crane, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Welding Set | - | - | - | - | - | - |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Drill rig, rotary type | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 |
| Grout Mixer # | - | - | - | - | - | - |
| Grout Pump # | - | - | - | - | - | - |
| Lorry with crane/grab | 30 | 2.6 | 10 | 2 | 52 | 15.6 |
| | | Total: | | | | 82.06 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 1.4% |
| | Percentage of Yearly Usage: | | | | | 0.72% |
| Combined Yearly Percentage | | | | | | 0.7% |

Shatin to Central Link - Hung Hom to Admiralty Section

Yearly Estimate - Jul 2014 to Jun 2015 (Area B)

Total works area = 15385 m²**SOV construction (Source ID: SOV)****Activity 1 - Install Hoarding**

| From: | 1-Oct-14 | To: | 31-Dec-14 | Duration: | 3 | months |
|-----------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Generator, super silenced # | - | - | - | - | - | - |
| Lorry with crane/grab | 60 | 2.6 | 10 | 1 | 26 | 15.6 |
| Lorry | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 22.8 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 0.1% |
| | | | | | | Percentage of Yearly Usage: 0.04% |

Activity 2 - Demolition of existing POC building

| From: | 1-Oct-14 | To: | 31-Dec-14 | Duration: | 3 | months |
|----------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Saw,concrete | 30 | 1 | 2 | 1 | 2 | 0.6 |
| Air Compressor # | - | - | - | - | - | - |
| Breaker, excavator mounted | 70 | 3.2 | 8 | 3 | 76.8 | 53.76 |
| Dump truck with grab | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Dump truck | 30 | 2.4 | 10 | 3 | 72 | 21.6 |
| Total: | | | | | | 83.16 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 0.5% |
| | | | | | | Percentage of Yearly Usage: 0.14% |

Activity 3 - Diaphragm Wall Construction

| From: | 1-Jan-15 | To: | 30-Apr-15 | Duration: | 4 | months |
|---|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Piling, diaphragm wall, bentonite filtering plant | 80 | 10 | 20 | 2 | 400 | 320 |
| Piling, diaphragm wall, hydraulic extractor | 80 | 2.3 | 6 | 2 | 27.6 | 22.08 |
| Piling, diaphragm wall, grab and chisel | 60 | 2.3 | 6 | 2 | 27.6 | 16.56 |
| Dumper Truck | 60 | 2.4 | 10 | 4 | 96 | 57.6 |
| Concrete pump, stationary/lorry mounted | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Crane, mobile | 50 | 2.6 | 10 | 2 | 52 | 26 |
| Bar Bender # | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 4 | 96 | 28.8 |
| Total: | | | | | | 495.04 |
| Activity 3 | | | | | | Percentage of Usage Area to Works Area: 3.2% |
| | | | | | | Percentage of Yearly Usage: 1.07% |

Activity 4 - Excavation work at SOV

| From: | 1-May-15 | To: | 30-Jun-15 | Duration: | 2 | months |
|--------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Hand held pneumatic breaker # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Backhoe with hydraulic breaker | 50 | 3.2 | 8 | 4 | 102.4 | 51.2 |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Total: | | | | | | 153.6 |
| Activity 4 | | | | | | Percentage of Usage Area to Works Area: 1.0% |
| | | | | | | Percentage of Yearly Usage: 0.17% |

Construction of cut&cover tunnel section(SCL1.4) (Source ID: TS1)

Activity 1 - Diaphragm Wall Construction

| From: | 1-Mar-15 | To: | 31-May-15 | Duration: | 3 | months |
|---|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Air compressor | - | - | - | - | - | - |
| Water pump(electric) | - | - | - | - | - | - |
| Crawler Crane, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Piling, diaphragm wall, bentonite filtering plant | 100 | 10 | 20 | 1 | 200 | 200 |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Bentonite mixer | 100 | 10 | 20 | 1 | 200 | 200 |
| Welder set # | - | - | - | - | - | - |
| Bar Bender and cutter(electric) # | - | - | - | - | - | - |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Drill rig, rotary type | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 |
| Grout Mixer # | - | - | - | - | - | - |
| Grout Pump # | - | - | - | - | - | - |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Total: | | | | | | 486.46 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 3.2% |
| | | | | | | Percentage of Yearly Usage: 0.79% |

Activity 2 - Excavation work

| From: | 1-Jun-15 | To: | 30-Jun-15 | Duration: | 1 | months |
|--------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Hand held pneumatic breaker | 30 | 0.5 | 1 | 10 | 5 | 1.5 |
| Air Compressor # | - | - | - | - | - | - |
| Backhoe with hydraulic breaker | 50 | 3.2 | 8 | 4 | 102.4 | 51.2 |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Total: | | | | | | 155.1 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 1.0% |
| | | | | | | Percentage of Yearly Usage: 0.08% |

Reconstruct of Perceival Street Footbridge

Activity 1 - Construction of temporary bridge

| From: | 1-Jul-14 | To: | 31-Jul-14 | Duration: | 1 | months |
|------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Welder/generator, portable # | - | - | - | - | - | - |
| Lorry with crane/grab | 60 | 2.6 | 10 | 1 | 26 | 15.6 |
| Total: | | | | | | 15.6 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 0.1% |
| | | | | | | Percentage of Yearly Usage: 0.01% |

Activity 2 - Demolish of portion of existing footbridge

| From: | 1-Aug-14 | To: | 30-Sep-14 | Duration: | 2 | months |
|-----------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Saw.concrete | 30 | 1 | 2 | 1 | 2 | 0.6 |
| Air Compressor # | - | - | - | - | - | - |
| Hand held breaker | 40 | 0.5 | 1 | 2 | 1 | 0.4 |
| Dump truck with grab | 80 | 2.4 | 10 | 1 | 24 | 19.2 |
| Welder/generator # | - | - | - | - | - | - |
| Lorry with crane/grab | 60 | 2.6 | 10 | 1 | 26 | 15.6 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Hydraulic breaker | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Total: | | | | | | 66.52 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 0.4% |
| | | | | | | Percentage of Yearly Usage: 0.07% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 3 - Removal of clashed and potential clashed piles

| From: | 1-Oct-14 | To: | 30-Mar-15 | Duration: | 6 | months |
|------------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Welder/generator, portable # | - | - | - | - | - | - |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Crane, mobile | 70 | 2.6 | 10 | 1 | 26 | 18.2 |
| Lorry with crane/grab | 80 | 2.6 | 10 | 1 | 26 | 20.8 |
| Concrete pump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 53.4 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.17% |

Activity 4 - Reconstruction of permanent footbridge

| From: | 1-Apr-15 | To: | 30-Jun-15 | Duration: | 3 | months |
|-------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Drill rig, rotary type | 80 | 2.3 | 6 | 1 | 13.8 | 11.04 |
| Water pump (electric) # | - | - | - | - | - | - |
| Total: | | | | | | 11.04 |
| Activity 4 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.02% |

Underpinning of Canal road Flyover (Source ID: CANAL_RD)

Activity 1 - Site Clearance and Hoarding and Utility diversion

| From: | 1-May-15 | To: | 31-May-15 | Duration: | 1 | months |
|------------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 80 | 3.2 | 8 | 1 | 25.6 | 20.48 |
| Air compressor # | - | - | - | - | - | - |
| Hand held breaker | 40 | 0.5 | 1 | 2 | 1 | 0.4 |
| Dump truck with grab | 60 | 2.4 | 10 | 1 | 24 | 14.4 |
| Welder/generator, portable # | - | - | - | - | - | - |
| Total: | | | | | | 35.28 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.02% |

Activity 2 - Excavation and Construction of pre-bored H-piles

| From: | 1-Jun-15 | To: | 30-Jun-15 | Duration: | 1 | months |
|---|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane, mobile | 60 | 2.6 | 10 | 1 | 26 | 15.6 |
| Lorry with crane/grab | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Rock Drill | 30 | 2.3 | 6 | 4 | 55.2 | 16.56 |
| Air Compressor # | - | - | - | - | - | - |
| Piling, large diameter bored, grab and chisel | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 |
| Welder/generator, portable # | - | - | - | - | - | - |
| Total: | | | | | | 52.22 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.03% |

Diversion of Canal road culvert & Removal of Piles (Source ID: CANAL_RD)

Activity 1 - Culvert diversion

| From: | 1-Jul-14 | To: | 30-Apr-15 | Duration: | 10 | months |
|-------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Mini Backhoe | 50 | 1 | 2 | 1 | 2 | 1 |
| Dump Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Bar Bender and Cutter # | - | - | - | - | - | - |
| Concrete Mixer Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 15.4 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.08% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 2 - Removal of piles

| From: | 1-Sep-14 | To: | 28-Feb-15 | Duration: | 6 | months |
|---|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Air Compressor # | - | - | - | - | - | - |
| Hand held breaker | 30 | 0.5 | 1 | 2 | 1 | 0.3 |
| Dump truck with grab | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Welder/generator | - | - | - | - | - | - |
| Crane, mobile | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Piling, large diameter bored, grab and chisel | 60 | 2.3 | 6 | 1 | 13.8 | 8.28 |
| Total: | | | | | | 26.18 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 0.2% |
| | | | | | | Percentage of Yearly Usage: 0.09% |

Underpinning of Pier of Causeway Flyover (Source ID: CWFLY)

Activity 1 - Site Clearance and Hoarding and Utility diversion

| From: | 1-May-15 | To: | 31-May-15 | Duration: | 1 | months |
|------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 80 | 3.2 | 8 | 1 | 25.6 | 20.48 |
| Air compressor # | - | - | - | - | - | - |
| Hand held breaker | 40 | 0.5 | 1 | 2 | 1 | 0.4 |
| Dump truck with grab | 60 | 2.4 | 10 | 1 | 24 | 14.4 |
| Welder/generator, portable # | - | - | - | - | - | - |
| Total: | | | | | | 35.28 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 0.2% |
| | | | | | | Percentage of Yearly Usage: 0.02% |

Activity 2 - Excavation and Construction of pre-bored H-piles

| From: | 1-Jun-15 | To: | 30-Jun-15 | Duration: | 1 | months |
|---|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Rock Drill | 30 | 2.3 | 6 | 1 | 13.8 | 4.14 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Piling, large diameter bored, grab and chisel | 40 | 2.3 | 6 | 1 | 13.8 | 5.52 |
| Welder/generator, portable # | - | - | - | - | - | - |
| Total: | | | | | | 32.82 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 0.2% |
| | | | | | | Percentage of Yearly Usage: 0.02% |

Underpinning of Abutment of Causeway Flyover (Source ID: CWFLY)

Activity 1 - Site Clearance and Hoarding and Utility diversion

| From: | 1-May-15 | To: | 31-May-15 | Duration: | 1 | months |
|------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 80 | 3.2 | 8 | 1 | 25.6 | 20.48 |
| Air compressor # | 40 | - | - | - | - | - |
| Hand held breaker | 40 | 0.5 | 1 | 2 | 1 | 0.4 |
| Dump truck with grab | 60 | 2.4 | 10 | 1 | 24 | 14.4 |
| Welder/generator, portable # | 40 | - | - | - | - | - |
| Total: | | | | | | 35.28 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 0.2% |
| | | | | | | Percentage of Yearly Usage: 0.02% |

Activity 2 - Excavation and Construction of pre-bored H-piles

| From: | 1-Jun-15 | To: | 30-Jun-15 | Duration: | 1 | months |
|---|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Rock Drill | 30 | 2.3 | 6 | 1 | 13.8 | 4.14 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Piling, large diameter bored, grab and chisel | 40 | 2.3 | 6 | 1 | 13.8 | 5.52 |
| Welder/generator, portable # | 80 | - | - | - | - | - |
| Total: | | | | | | 32.82 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 0.2% |
| | | | | | | Percentage of Yearly Usage: 0.02% |

Grouting Work for DSD 1.8m Trunk Sewers (Source ID: DSD)**Activity 1 - Site Clearance and Hoarding and Utility diversion**

| | | | | | | |
|------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Sep-14 | To: | 30-Sep-14 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Breaker, hand-held, mass | 30 | 0.5 | 1 | 1 | 0.5 | 0.2 |
| Excavator | 30 | 3.2 | 8 | 1 | 25.6 | 7.7 |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Dump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Poker, vibrator, hand-held # | 30 | - | - | - | - | - |
| Air compressor # | 30 | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| | | Total: | | | | 30.03 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.02% |

Activity 2 - Temp Access Shaft - Diaphragm wall

| | | | | | | |
|---|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Oct-14 | To: | 28-Feb-15 | Duration: | 5 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Generator, standard # | 30 | - | - | - | - | - |
| Dump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Crawler Crane, mobile | 35 | 4.5 | 8 | 1 | 36 | 12.6 |
| Diaphragm wall, bentonite filtering plant | 30 | 10 | 20 | 1 | 200 | 60 |
| Bar bender and cutter (electric) # | 30 | - | - | - | - | - |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| | | Total: | | | | 94.8 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.6% |
| | Percentage of Yearly Usage: | | | | | 0.26% |

Activity 3 - Temp Access Shaft - Excavation

| | | | | | | |
|-------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Mar-15 | To: | 30-Apr-15 | Duration: | 2 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Excavator | 30 | 3.2 | 8 | 1 | 25.6 | 7.68 |
| Water Pump # | 30 | - | - | - | - | - |
| Ventilation Fans | 30 | 1 | 1 | 1 | 1 | 0.3 |
| Dump Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| | | Total: | | | | 15.18 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.02% |

Activity 4 - Grouting within the shaft

| | | | | | | |
|---------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-May-15 | To: | 30-Jun-15 | Duration: | 2 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Drill rig, rotary type (diesel) | 35 | 2.3 | 6 | 1 | 13.8 | 4.83 |
| Grout Mixer # | 35 | - | - | - | - | - |
| Grout Pump # | 35 | - | - | - | - | - |
| | | Total: | | | | 4.83 |
| Activity 4 | Percentage of Usage Area to Works Area: | | | | | 0.0% |
| | Percentage of Yearly Usage: | | | | | 0.01% |

| | | | | | | |
|-----------------------------------|--|--|--|--|--|-------------|
| Combined Yearly Percentage | | | | | | 3.1% |
|-----------------------------------|--|--|--|--|--|-------------|

Shatin to Central Link - Hung Hom to Admiralty Section

Yearly Estimate - Jul 2014 to Jun 2015 (Area C to G)

Total works area = 29236 m²**EXH Station****(ii) At PTI Area (Source ID: PTI)****Activity 1 - Diaphragm Wall Construction**

| From: | 1-Jul-14 | To: | 31-Jul-14 | Duration: | 1 | months |
|---|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Diaphragm wall, bentonite filtering plant | 40 | 10 | 20 | 1 | 200 | 80 |
| Bar Bender and cutter(electric) # | - | - | - | - | - | - |
| Crane, tower(electric) | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Crane, lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 122.4 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.4% |
| | Percentage of Yearly Usage: | | | | | 0.03% |

Activity 2 - Roof Slab construction

| From: | 1-Aug-14 | To: | 30-Jun-15 | Duration: | 11 | months |
|------------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Crane, lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 29.4 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.09% |

Activity 3 - Excavation

| From: | 1-May-15 | To: | 30-Jun-15 | Duration: | 2 | months |
|--|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Lorry with crane/grab | 60 | 2.6 | 10 | 1 | 26 | 15.6 |
| Generator, standard # | - | - | - | - | - | - |
| Lorry | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Rock Drill | 30 | 2.3 | 6 | 1 | 13.8 | 4.14 |
| Ventilation Fans | 70 | 1 | 1 | 1 | 1 | 0.7 |
| Power Pack or hand-held items of PME # | - | - | - | - | - | - |
| Dump truck | 50 | 2.4 | 10 | 1 | 24 | 12 |
| Water pump # | - | - | - | - | - | - |
| Welder/generator, portable # | - | - | - | - | - | - |
| Total: | | | | | | 39.64 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.02% |

(iv) At Wan Chai Sports Ground/ Tonnochy Road Area (Source ID: WCSG)

Activity 1- Demolition & temp re-provision of grandstand

| | | | | | | |
|------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jul-14 | To: | 30-Sep-14 | Duration: | 3 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Drill, percussive, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Saw,concrete | 50 | 1 | 2 | 2 | 4 | 2 |
| Excavator | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Crane lorry, mobile | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Dump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Lorry | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 42.45 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.04% |

Activity 2 - Diaphragm Wall Construction

| | | | | | | |
|---|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Oct-14 | To: | 30-Apr-15 | Duration: | 7 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Diaphragm wall, bentonite filtering plant | 40 | 10 | 20 | 1 | 200 | 80 |
| Bar Bender and cutter(electric) # | - | - | - | - | - | - |
| Crane, lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 109.4 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.4% |
| | Percentage of Yearly Usage: | | | | | 0.22% |

Activity 3 - King Post Construction

| | | | | | | |
|-------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-May-15 | To: | 30-Jun-15 | Duration: | 2 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Generator, standard # | - | - | - | - | - | - |
| Crane, lorry, mobile | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Welder./generator, portable # | - | - | - | - | - | - |
| Power rammer | 80 | 0.28 | 0.33 | 1 | 0.0924 | 0.07392 |
| Lorry | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 17.67392 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.010% |

Tunnel at west of EXH (Source ID: CCT)**Activity 1 - Site Formation**

| | | | | | | |
|----------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Feb-15 | To: | 28-Feb-15 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Dump truck with grab | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Breaker, excavator mounted | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Air compressor # | - | - | - | - | - | - |
| Generator # | - | - | - | - | - | - |
| Water pump # | - | - | - | - | - | - |
| Saw, concrete | 20 | 1 | 2 | 1 | 2 | 0.4 |
| Total: | | | | | | 46 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.013% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 2 - Site hoarding erection

| | | | | | | |
|-----------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Feb-15 | To: | 28-Feb-15 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Drill, hand-held (electric) | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Generator # | - | - | - | - | - | - |
| Lorry with Grab | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Welding Set # | - | - | - | - | - | - |
| | | Total: | | | | 52.4 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.01% |

Activity 3 - Diaphragm Wall Construction

| | | | | | | |
|---|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Mar-15 | To: | 30-Jun-15 | Duration: | 4 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump Truck | 20 | 2.4 | 10 | 1 | 24 | 4.8 |
| Diaphragm wall, bentonite filtering plant | 40 | 10 | 20 | 1 | 200 | 80 |
| Bar Bender and cutter(electric) # | 20 | - | - | - | - | - |
| Crane, tower (electric) | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Crane, lorry, mobile | 20 | 2.6 | 10 | 1 | 26 | 5.2 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 20 | 2.4 | 10 | 1 | 24 | 4.8 |
| Concrete pump | 20 | 2.4 | 10 | 1 | 24 | 4.8 |
| | | Total: | | | | 112.6 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.4% |
| | Percentage of Yearly Usage: | | | | | 0.13% |

Convention Avenue Launching Shaft Construction (Source ID: CACP)

Activity 1- Diaphragm wall excavation

| | | | | | | |
|---|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jul-14 | To: | 31-Oct-14 | Duration: | 4 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) # | - | - | - | - | - | - |
| Crawler Crane, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Piling, diaphragm wall, bentonite filtering plant | 100 | 10 | 20 | 1 | 200 | 200 |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Bentonite mixer | 100 | 10 | 20 | 1 | 200 | 200 |
| Welding Set # | - | - | - | - | - | - |
| | | Total: | | | | 445 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 1.5% |
| | Percentage of Yearly Usage: | | | | | 0.51% |

Activity 2- Diaphragm wall reinforcement fixing and concrete casting

| | | | | | | |
|---|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jul-14 | To: | 31-Oct-14 | Duration: | 4 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) # | - | - | - | - | - | - |
| Crawler Crane, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Piling, diaphragm wall, bentonite filtering plant | 100 | 10 | 20 | 1 | 200 | 200 |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Bar bender and cutter | - | - | - | - | - | - |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| | | Total: | | | | 269 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.9% |
| | Percentage of Yearly Usage: | | | | | 0.31% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 3- Shaft excavation

| | | | | | | |
|---------------------------------------|--------------------------------|--|--------------|--------------------|----------------------------|--|
| From: | 1-Nov-14 | To: | 30-Jun-15 | Duration: | 8 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Breaker, excavator mounted(hydraulic) | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Welding Set # | - | - | - | - | - | - |
| Water pump, submersible(electric) # | - | - | - | - | - | - |
| Gantry Crane(electric) # | - | - | - | - | - | - |
| Ventilation fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Dump truck | 80 | 2.4 | 10 | 1 | 24 | 19.2 |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) # | - | - | - | - | - | - |
| | | | | | Total: | 84.45 |
| Activity 3 | | Percentage of Usage Area to Works Area: | | | | 0.3% |
| | | Percentage of Yearly Usage: | | | | 0.19% |
| Combined Yearly Percentage | | | | | | 1.6% |

Shatin to Central Link - Hung Hom to Admiralty Section

Yearly Estimate - Jul 2015 to Jun 2016

Total works area = 5716 m²**HUH Landfall (Source ID: HLF)****Activity 1 - Cofferdam Wall Construction and Shear Pining**

| From: | 1-Jul-15 | To: | 30-Sep-15 | Duration: | 3 | months |
|-------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Crawler crane, mobile | 60 | 4.5 | 8 | 2 | 72 | 43.2 |
| Welding Set # | - | - | - | - | - | - |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Drill rig, rotary type | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 |
| Grout Mixer # | - | - | - | - | - | - |
| Grout Pump # | - | - | - | - | - | - |
| Lorry with crane/grab | 30 | 2.6 | 10 | 2 | 52 | 15.6 |
| Total: | | | | | | 94.06 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 1.6% |
| | | | | | | Percentage of Yearly Usage: 0.41% |

Activity 2 - Soft ground excavation

| From: | 1-Oct-15 | To: | 31-Dec-15 | Duration: | 3 | months |
|--|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Breaker, excavator mounted (hydraulic) | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Welding Set # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Crawler Crane, mobile | 60 | 4.5 | 8 | 1 | 36 | 21.6 |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Total: | | | | | | 86.85 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 1.5% |
| | | | | | | Percentage of Yearly Usage: 0.4% |

Activity 3 - Excavation Works

| From: | 1-Nov-15 | To: | 30-Apr-16 | Duration: | 6 | months |
|--------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Hand held pneumatic breaker | 30 | 0.5 | 1 | 10 | 5 | 1.5 |
| Air Compressor # | - | - | - | - | - | - |
| Backhoe with hydraulic breaker | 50 | 3.2 | 8 | 4 | 102.4 | 51.2 |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Total: | | | | | | 155.1 |
| Activity 3 | | | | | | Percentage of Usage Area to Works Area: 2.7% |
| | | | | | | Percentage of Yearly Usage: 1.36% |

Activity 4 - Tunnel Box Construction

| From: | 1-Mar-16 | To: | 31-May-16 | Duration: | 3 | months |
|--------------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Bar bender and cutter (electric) # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Compactor, vibratory | 50 | 5.8 | 2.5 | 1 | 14.5 | 7.25 |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Crawler Crane, mobile | 60 | 4.5 | 8 | 1 | 36 | 21.6 |
| Ventilation Fans | 100 | 1 | 1 | 2 | 2 | 2 |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Total: | | | | | | 54.85 |
| Activity 4 | | | | | | Percentage of Usage Area to Works Area: 1.0% |
| | | | | | | Percentage of Yearly Usage: 0.24% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 5 - E&M installation

| | | | | | | |
|------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jun-16 | To: | 30-Jun-16 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Drill, percussive, hand-held | 100 | 0.5 | 1 | 1 | 0.5 | 0.5 |
| Crawler Crane, mobile | 60 | 4.5 | 8 | 1 | 36 | 21.6 |
| Ventilation Fans | 100 | 1 | 1 | 2 | 2 | 2 |
| Lorry with crane/grab | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| | | Total: | | | | 34.5 |
| Activity 5 | Percentage of Usage Area to Works Area: | | | | | 0.6% |
| | Percentage of Yearly Usage: | | | | | 0.05% |

Activity 6 - Cofferdam Wall Removal

| | | | | | | |
|--|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jun-16 | To: | 30-Jun-16 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Breaker, excavator mounted (hydraulic) | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Welding Set # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Tug Boat * | - | - | - | - | - | - |
| Derrick barges * | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| | | Total: | | | | 78.05 |
| Activity 6 | Percentage of Usage Area to Works Area: | | | | | 1.4% |
| | Percentage of Yearly Usage: | | | | | 0.114% |
| Combined Yearly Percentage | | | | | | 2.6% |

Notes:

* Marine plant which would not contribute to active area.

No dust generated machine

Shatin to Central Link - Hung Hom to Admiralty Section

Yearly Estimate - Jan 2016 to Dec 2016 (Area A)

Total works area = 12578 m²**Construction of cut and cover tunnel section(outside breakwater - SCL2) (Source ID: TS2)****Activity 1 - Diaphragm Wall Construction**

| From: | 1-Jan-16 | To: | 31-Mar-16 | Duration: | 3 | months | |
|--|-------------------------|-----------|-----------|-------------|--|---|--------------|
| Plant | Percentage of Usage (%) | Plan Size | | | Area(m ²) | Area in term of Time of Usage (m ²) | |
| | | B (m) | L (m) | No. of Item | | | |
| Air compressor # | - | - | - | - | - | - | |
| Water Pump (electric) # | - | - | - | - | - | - | |
| Crawler crane, mobile | 60 | 4.5 | 8 | 2 | 72 | 43.2 | |
| Piling, diaphragm wall, bentonite filtering plan | 100 | 10 | 20 | 1 | 200 | 200 | |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 | |
| Bentonite mixer | 100 | 10 | 20 | 1 | 200 | 200 | |
| Welding Set # | - | - | - | - | - | - | |
| Bar Bender and Cutter(electric) # | - | - | - | - | - | - | |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 | |
| Drill rig, rotary type | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 | |
| Grout Mixer # | - | - | - | - | - | - | |
| Grout Pump # | - | - | - | - | - | - | |
| Lorry with crane/grab | 30 | 2.6 | 10 | 2 | 52 | 15.6 | |
| Total: | | | | | | 506.26 | |
| Activity 1 | | | | | Percentage of Usage Area to Works Area: | | 4.0% |
| | | | | | Percentage of Yearly Usage: | | 1.01% |

Activity 2 - Soil Extraction

| From: | 1-Apr-16 | To: | 30-Apr-16 | Duration: | 1 | months | |
|--|-------------------------|-----------|-----------|-------------|--|---|--------------|
| Plant | Percentage of Usage (%) | Plan Size | | | Area(m ²) | Area in term of Time of Usage (m ²) | |
| | | B (m) | L (m) | No. of Item | | | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 | |
| Breaker, excavator mounted (hydraulic) | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 | |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 | |
| Welding Set # | - | - | - | - | - | - | |
| Water Pump, submersible (electric) # | - | - | - | - | - | - | |
| Crawler Crane, mobile | 60 | 4.5 | 8 | 1 | 36 | 21.6 | |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 | |
| Tug Boat * | - | - | - | - | - | - | |
| Derrick barges * | - | - | - | - | - | - | |
| Air compressor # | - | - | - | - | - | - | |
| Water Pump (electric) # | - | - | - | - | - | - | |
| Total: | | | | | | 86.85 | |
| Activity 2 | | | | | Percentage of Usage Area to Works Area: | | 0.7% |
| | | | | | Percentage of Yearly Usage: | | 0.06% |

Activity 3 - Tunnel Box Construction

| From: | 1-May-16 | To: | 31-Jul-16 | Duration: | 3 | months | |
|--------------------------------------|-------------------------|-----------|-----------|-------------|--|---|--------------|
| Plant | Percentage of Usage (%) | Plan Size | | | Area(m ²) | Area in term of Time of Usage (m ²) | |
| | | B (m) | L (m) | No. of Item | | | |
| Bar bender and cutter (electric) # | - | - | - | - | - | - | |
| Water Pump, submersible (electric) # | - | - | - | - | - | - | |
| Compactor, vibratory | 50 | 5.8 | 2.5 | 1 | 14.5 | 7.25 | |
| Welding Set # | - | - | - | - | - | - | |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 | |
| Crawler Crane, mobile | 60 | 4.5 | 8 | 1 | 36 | 21.6 | |
| Ventilation Fans | 100 | 1 | 1 | 2 | 2 | 2 | |
| Air compressor # | - | - | - | - | - | - | |
| Water Pump (electric) # | - | - | - | - | - | - | |
| Total: | | | | | | 54.85 | |
| Activity 3 | | | | | Percentage of Usage Area to Works Area: | | 0.4% |
| | | | | | Percentage of Yearly Usage: | | 0.11% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 4 - Backfilling

| From: | 1-Aug-16 | To: | 30-Sep-16 | Duration: | 2 | months |
|-------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Tug Boat * | - | - | - | - | - | - |
| Derrick barges * | - | - | - | - | - | - |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Total: | | | | | | 51.2 |
| Activity 4 | | | | | | Percentage of Usage Area to Works Area: 0.4% |
| | | | | | | Percentage of Yearly Usage: 0.07% |

Activity 5 - Diaphragm wall removal

| From: | 1-Aug-16 | To: | 30-Sep-16 | Duration: | 2 | months |
|--|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Breaker, excavator mounted (hydraulic) | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Concrete crusher, excavator mounted | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Welding set # | - | - | - | - | - | - |
| Water Pump, submersible(electric) # | - | - | - | - | - | - |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Tug Boat * | - | - | - | - | - | - |
| Derrick barges * | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Total: | | | | | | 103.65 |
| Activity 5 | | | | | | Percentage of Usage Area to Works Area: 0.8% |
| | | | | | | Percentage of Yearly Usage: 0.14% |

Construction of cut and cover tunnel section(inside breakwater - SCL3.1) (Source ID: TS31)

Activity 1 - Diaphragm Wall Construction

| From: | 1-Aug-16 | To: | 31-Dec-16 | Duration: | 5 | months |
|--|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Crawler crane, mobile | 60 | 4.5 | 8 | 2 | 72 | 43.2 |
| Piling, diaphragm wall, bentonite filtering plan | 100 | 10 | 20 | 1 | 200 | 200 |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Bentonite mixer | 100 | 10 | 20 | 1 | 200 | 200 |
| Welding Set # | - | - | - | - | - | - |
| Bar Bender and Cutter(electric) # | - | - | - | - | - | - |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Drill rig, rotary type | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 |
| Grout Mixer # | - | - | - | - | - | - |
| Grout Pump # | - | - | - | - | - | - |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Total: | | | | | | 498.46 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 4.0% |
| | | | | | | Percentage of Yearly Usage: 1.65% |

| | |
|-----------------------------------|-------------|
| Combined Yearly Percentage | 3.0% |
|-----------------------------------|-------------|

Notes:

* Marine plant which would not contribute to active area.

No dust generated machine

Shatin to Central Link - Hung Hom to Admiralty Section

Yearly Estimate - Jul 2015 to Jun 2016 (Area B)

Total works area = 15047 m²**SOV construction (Source ID: SOV)****Activity 1 - Excavation work at SOV**

| From: | 1-Jul-15 | To: | 30-Sep-15 | Duration: | 3 | months |
|--------------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Hand held pneumatic breaker | 30 | 0.5 | 1 | 10 | 5 | 1.5 |
| Air Compressor # | - | - | - | - | - | - |
| Backhoe with hydraulic breaker | 50 | 3.2 | 8 | 4 | 102.4 | 51.2 |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Total: | | | | | | 155.1 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 1.0% |
| | Percentage of Yearly Usage: | | | | | 0.26% |

Activity 2 - Construction of TBM launching shaft

| From: | 1-Oct-15 | To: | 30-Apr-16 | Duration: | 7 | months |
|--|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Rock Drill | 50 | 2.3 | 6 | 4 | 55.2 | 27.6 |
| Piling, large diameter bored, grab and chise | 50 | 2.3 | 6 | 1 | 13.8 | 6.9 |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Crane, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Total: | | | | | | 64.5 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.4% |
| | Percentage of Yearly Usage: | | | | | 0.25% |

Activity 3 - SOV structure

| From: | 1-May-16 | To: | 30-Jun-16 | Duration: | 2 | months |
|--|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Rock Drill | 50 | 2.3 | 6 | 4 | 55.2 | 27.6 |
| Piling, large diameter bored, grab and chise | 50 | 2.3 | 6 | 1 | 13.8 | 6.9 |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Crane, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Total: | | | | | | 64.5 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.4% |
| | Percentage of Yearly Usage: | | | | | 0.07% |

Construction of cut and cover tunnel section(SCL 1.4) (Source ID: TS1)**Activity 1 - Excavation work**

| From: | 1-Jul-15 | To: | 30-Sep-15 | Duration: | 3 | months |
|--------------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Hand held pneumatic breaker | 30 | 0.5 | 1 | 10 | 5 | 1.5 |
| Air Compressor # | - | - | - | - | - | - |
| Backhoe with hydraulic breaker | 50 | 3.2 | 8 | 4 | 102.4 | 51.2 |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Total: | | | | | | 155.1 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 1.0% |
| | Percentage of Yearly Usage: | | | | | 0.26% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 2 - Tunnel Box Construction

| From: | 1-Oct-15 | To: | 31-Dec-15 | Duration: | 3 | months |
|--------------------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Bar bender and cutter (electric) # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Compactor, vibratory | 50 | 5.8 | 2.5 | 1 | 14.5 | 7.25 |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Crawler Crane, mobile | 60 | 4.5 | 8 | 1 | 36 | 21.6 |
| Ventilation Fans | 100 | 1 | 1 | 2 | 2 | 2 |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Total: | | | | | | 54.85 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.4% |
| | Percentage of Yearly Usage: | | | | | 0.09% |

Activity 3 - Backfilling

| From: | 1-Jan-16 | To: | 31-Jan-16 | Duration: | 1 | months |
|-------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Tug Boat * | - | - | - | - | - | - |
| Derrick barges * | - | - | - | - | - | - |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Total: | | | | | | 51.2 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.03% |

Activity 4 - Removal temporary seawall

| From: | 1-Feb-16 | To: | 30-Apr-16 | Duration: | 3 | months |
|--|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Breaker, excavator mounted (hydraulic) | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Concrete crusher, excavator mounted | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Welding Set # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Tug Boat * | - | - | - | - | - | - |
| Derrick barges * | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Total: | | | | | | 103.65 |
| Activity 4 | Percentage of Usage Area to Works Area: | | | | | 0.7% |
| | Percentage of Yearly Usage: | | | | | 0.17% |

Underpinning of Canal Road Flyover (Source ID: CANAL_RD)

Activity 1 - Excavation and Construction of pre-bored H-piles

| From: | 1-Jul-15 | To: | 29-Feb-16 | Duration: | 8 | months |
|--|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane, mobile | 60 | 2.6 | 10 | 1 | 26 | 15.6 |
| Lorry with crane/grab | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Rock Drill | 30 | 2.3 | 6 | 4 | 55.2 | 16.56 |
| Air Compressor # | - | - | - | - | - | - |
| Piling, large diameter bored, grab and chise | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 |
| Welder/generator, portable # | - | - | - | - | - | - |
| Total: | | | | | | 52.22 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.23% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 2 - Construct new pile cap and ground beams

| | | | | | | |
|------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Mar-16 | To: | 30-Jun-16 | Duration: | 4 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Excavator | 30 | 3.2 | 8 | 1 | 25.6 | 7.68 |
| Dump truck with grab | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| | | Total: | | | | 22.08 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.05% |

Underpinning of Pier of Causeway Flyover (Source ID: CWFLY)

Activity 1 - Excavation and Construction of new piles

| | | | | | | |
|--|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jul-15 | To: | 30-Jun-16 | Duration: | 12 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Rock Drill | 30 | 2.3 | 6 | 1 | 13.8 | 4.14 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Piling, large diameter bored, grab and chise | 40 | 2.3 | 6 | 1 | 13.8 | 5.52 |
| Welder/generator, portable # | - | - | - | - | - | - |
| | | Total: | | | | 32.82 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.22% |

Activity 2 - Construct pile cap

| | | | | | | |
|------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Sep-15 | To: | 30-Jun-16 | Duration: | 10 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| | | Total: | | | | 22.56 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.12% |

Activity 3 - Remove piles

| | | | | | | |
|--|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Apr-16 | To: | 30-Jun-16 | Duration: | 3 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Air Compressor # | - | - | - | - | - | - |
| Hand held breaker | 30 | 0.5 | 1 | 2 | 1 | 0.3 |
| Dump truck with grab | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Welder/generator # | - | - | - | - | - | - |
| Crane, mobile | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Piling, large diameter bored, grab and chise | 60 | 2.3 | 6 | 1 | 13.8 | 8.28 |
| | | Total: | | | | 26.18 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.04% |

Underpinning of Abutment of Causeway Flyover (Source ID: CWFLY)

Activity 1 - Excavation and Construction of new piles

| | | | | | | |
|--|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jul-15 | To: | 30-Jun-16 | Duration: | 12 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Rock Drill | 30 | 2.3 | 6 | 1 | 13.8 | 4.14 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Piling, large diameter bored, grab and chise | 40 | 2.3 | 6 | 1 | 13.8 | 5.52 |
| Welder/generator, portable # | - | - | - | - | - | - |
| | | Total: | | | | 32.82 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.22% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 2 - Construct pile cap

| From: | 1-Sep-15 | To: | 30-Jun-16 | Duration: | 10 | months |
|------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 22.56 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 0.1% |
| | | | | | | Percentage of Yearly Usage: 0.12% |

Activity 3 - Remove piles

| From: | 1-Apr-16 | To: | 30-Jun-16 | Duration: | 3 | months |
|---|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Air Compressor # | - | - | - | - | - | - |
| Hand held breaker | 30 | 0.5 | 1 | 2 | 1 | 0.3 |
| Dump truck with grab | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Welder/generator # | - | - | - | - | - | - |
| Crane, mobile | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Piling, large diameter bored, grab and chisel | 60 | 2.3 | 6 | 1 | 13.8 | 8.28 |
| Total: | | | | | | 26.18 |
| Activity 3 | | | | | | Percentage of Usage Area to Works Area: 0.2% |
| | | | | | | Percentage of Yearly Usage: 0.04% |

Grouting Work for DSD 1.8m Trunk Sewers (Source ID: DSD)

Activity 1 - Backfilling and Reinstatement

| From: | 1-Jul-15 | To: | 31-Aug-15 | Duration: | 2 | months |
|--------------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 30 | 3.2 | 8 | 1 | 25.6 | 7.68 |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Crawler Crane, mobile | 30 | 4.5 | 8 | 1 | 36 | 10.8 |
| Ventilation Fans | 30 | 1 | 1 | 1 | 1 | 0.3 |
| Concrete Lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Dump Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 33.18 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 0.2% |
| | | | | | | Percentage of Yearly Usage: 0.04% |
| Combined Yearly Percentage | | | | | | 2.2% |

Notes:

* Marine plant which would not contribute to active area.

No dust generated machine

Shatin to Central Link - Hung Hom to Admiralty Section

Yearly Estimate - Feb 2016 to Jan 2017 (Area C to G)

Total works area = 35130 m²**EXH Station****(i) At Harbour Road Sports Centre/ Wan Chai Swimming Pool (Source ID: IGH)****Activity 1 - Pile removal**

| From: | 1-Feb-16 | To: | 29-Feb-16 | Duration: | 1 | months |
|---------------------------------------|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Breaker, excavator mounted(hydraulic) | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Air compressor # | - | - | - | - | - | - |
| Drill rig, rotary type | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 |
| Piling, earth augur | 80 | 2.3 | 6 | 1 | 13.8 | 11.04 |
| Crawler crane, mobile | 60 | 4.5 | 8 | 2 | 72 | 43.2 |
| Generator # | - | - | - | - | - | - |
| Total: | | | | | | 102.55 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 0.3% |
| | | | | | | Percentage of Yearly Usage: 0.02% |

Activity 2 - Diaphragm wall construction

| From: | 1-Feb-16 | To: | 30-Apr-16 | Duration: | 3 | months |
|---|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| diaphragm wall, bentonite filtering plant | 40 | 10 | 20 | 1 | 200 | 80 |
| Bar bender and cutter (electric) # | - | - | - | - | - | - |
| Crane, tower (electric) | 60 | 2.6 | 10 | 1 | 26 | 15.6 |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 125 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 0.4% |
| | | | | | | Percentage of Yearly Usage: 0.09% |

Activity 3 - Excavation

| From: | 1-May-16 | To: | 30-Sep-16 | Duration: | 5 | months |
|---|-------------------------|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane lorry, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Generator, standard # | - | - | - | - | - | - |
| Lorry | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Rock drill, crawler mounted (pneumatic) | 30 | 4.5 | 8 | 1 | 36 | 10.8 |
| Ventilation fans | 70 | 1 | 1 | 2 | 2 | 1.4 |
| Power pack for hand-held items of PME # | - | - | - | - | - | - |
| dump truck | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Water pump (electric) # | - | - | - | - | - | - |
| Welder/ generator, portable # | - | - | - | - | - | - |
| Total: | | | | | | 74.6 |
| Activity 3 | | | | | | Percentage of Usage Area to Works Area: 0.2% |
| | | | | | | Percentage of Yearly Usage: 0.09% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 4 - Construction of Internal Structures of Station Box

| | | | | | | |
|---|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Oct-16 | To: | 31-Jan-17 | Duration: | 4 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Crane lorry, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Generator, standard # | - | - | - | - | - | - |
| Lorry | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Rock drill, crawler mounted (pneumatic) | 30 | 4.5 | 8 | 1 | 36 | 10.8 |
| Ventilation fans | 70 | 1 | 1 | 2 | 2 | 1.4 |
| Power pack for hand-held items of PME # | - | - | - | - | - | - |
| dump truck | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Water pump (electric) # | - | - | - | - | - | - |
| Welder/ generator, portable # | - | - | - | - | - | - |
| | | Total: | | | | 74.6 |
| Activity 4 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.07% |

Activity 5 - Construction of Station Box Roof Slab

| | | | | | | |
|------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Dec-16 | To: | 31-Jan-17 | Duration: | 2 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| | | Total: | | | | 29.4 |
| Activity 5 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.01% |

Activity 6 - Construction of Entrance and Vent Shafts

| | | | | | | |
|------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jan-17 | To: | 31-Jan-17 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 30 | 2.4 | 10 | 2 | 48 | 14.4 |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| | | Total: | | | | 36.6 |
| Activity 6 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.009% |

(ii) At PTI Area (Source ID: PTI)

Activity 1 - Construction of Internal Structures of Station Box

| | | | | | | |
|---|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Feb-16 | To: | 31-May-16 | Duration: | 4 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Crane lorry, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Generator, standard # | - | - | - | - | - | - |
| Lorry | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Rock drill, crawler mounted (pneumatic) | 30 | 4.5 | 8 | 1 | 36 | 10.8 |
| Ventilation fans | 70 | 1 | 1 | 2 | 2 | 1.4 |
| Power pack for hand-held items of PME # | - | - | - | - | - | - |
| dump truck | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Water pump (electric) # | - | - | - | - | - | - |
| Welder/ generator, portable # | - | - | - | - | - | - |
| | | Total: | | | | 74.6 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.07% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 2 - Construction of Entrance and Vent Shafts

| | | | | | | |
|------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Apr-16 | To: | 31-Jul-16 | Duration: | 4 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 30 | 2.4 | 10 | 2 | 48 | 14.4 |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 36.6 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.03% |

Activity 3 - Construction of Station Box Roof Slab

| | | | | | | |
|------------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Jun-16 | To: | 30-Sep-16 | Duration: | 4 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 29.4 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.03% |

(iii) At Fleming Road (Source ID: FLEM_RD)

Activity 1 - Site hoarding erection

| | | | | | | |
|-----------------------------|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Aug-16 | To: | 31-Aug-16 | Duration: | 1 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Drill, hand-held (electric) | 100 | 0.5 | 1 | 1 | 0.5 | 0.5 |
| Generator # | - | - | - | - | - | - |
| Lorry with Grab | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Welding Set # | - | - | - | - | - | - |
| Total: | | | | | | 39.1 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.009% |

Activity 2 - Diaphragm wall construction

| | | | | | | |
|---|--|------------------|--------------|--------------------|----------------------------|--|
| From: | 1-Sep-16 | To: | 31-Jan-17 | Duration: | 5 | months |
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m²) |
| | | B (m) | L (m) | No. of Item | Area(m²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| diaphragm wall, bentonite filtering plant | 40 | 10 | 20 | 1 | 200 | 80 |
| Bar bender and cutter (electric) # | - | - | - | - | - | - |
| Crane, tower (electric) | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 122.4 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.15% |

Tunnel at West of EXH (Source ID: CCT)

Activity 1 - Excavation inside SCL tunnels protection works (69m)

| From: | 1-Feb-16 | To: | 30-Apr-16 | Duration: | 3 | months |
|--|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Breaker, excavator mounted (hydraulic) | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Welding Set # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Gantry Crane (electric) # | - | - | - | - | - | - |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Dump Truck | 80 | 2.4 | 10 | 1 | 24 | 19.2 |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Total: | | | | | | 84.45 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.06% |

Activity 2 - Tunnel Box Construction

| From: | 1-May-16 | To: | 31-Oct-16 | Duration: | 6 | months |
|--------------------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Bar bender and cutter (electric) # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Compactor, vibratory | 50 | 5.8 | 2.5 | 1 | 14.5 | 7.25 |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Crawler Crane, mobile (diesel) | 60 | 4.5 | 8 | 1 | 36 | 21.6 |
| Ventilation Fans | 100 | 1 | 1 | 2 | 2 | 2 |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) # | - | - | - | - | - | - |
| Total: | | | | | | 54.85 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.08% |

Activity 3 - Diaphragm wall construction

| From: | 1-Feb-16 | To: | 31-Oct-17 | Duration: | 21 | months |
|---|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 20 | 2.4 | 10 | 1 | 24 | 4.8 |
| diaphragm wall, bentonite filtering plant | 40 | 10 | 20 | 1 | 200 | 80 |
| Bar bender and cutter (electric) # | - | - | - | - | - | - |
| Crane, tower (electric) | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Crane lorry, mobile | 20 | 2.6 | 10 | 1 | 26 | 5.2 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 20 | 2.4 | 10 | 1 | 24 | 4.8 |
| Concrete pump | 20 | 2.4 | 10 | 1 | 24 | 4.8 |
| Total: | | | | | | 112.6 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.56% |

Appendix 8.6a Justification for the percentage of Annual Average Active Area

Activity 4 - Excavation

| From: | 1-Feb-16 | To: | 31-Jan-17 | Duration: | 12 | months |
|--|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Breaker, excavator mounted (hydraulic) | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Welding Set # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Gantry Crane (electric) # | - | - | - | - | - | - |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Dump Truck | 80 | 2.4 | 10 | 1 | 24 | 19.2 |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Total: | | | | | | 84.45 |
| Activity 4 | Percentage of Usage Area to Works Area: | | | | | 0.2% |
| | Percentage of Yearly Usage: | | | | | 0.24% |

Activity 5 - Backfilling

| From: | 1-Oct-16 | To: | 31-Jan-17 | Duration: | 4 | months |
|--------------------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Crawler Crane, mobile (diesel) | 30 | 0.5 | 1 | 1 | 0.5 | 0.15 |
| Ventilation Fans | 60 | 1 | 1 | 1 | 1 | 0.6 |
| Concrete Lorry mixer | 5 | 2.4 | 10 | 1 | 24 | 1.2 |
| Water Pump (electric) # | - | - | - | - | - | - |
| Dump Truck | 60 | 2.4 | 10 | 1 | 24 | 14.4 |
| Total: | | | | | | 41.95 |
| Activity 5 | Percentage of Usage Area to Works Area: | | | | | 0.1% |
| | Percentage of Yearly Usage: | | | | | 0.04% |

Convention Avenue Launching Shaft Construction (Source ID: CACP)

Activity 1 - TWL protection works from U/Track

| From: | 1-Sep-16 | To: | 30-Nov-16 | Duration: | 3 | months |
|--------------------------------------|--|-----------|-----------|-------------|-----------------------|---|
| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Bar bender and cutter (electric) # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Compactor, vibratory | 50 | 5.8 | 2.5 | 1 | 14.5 | 7.25 |
| Welding Set # | - | - | - | - | - | - |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Slurry Treatment Plant | 100 | 10 | 20 | 1 | 200 | 200 |
| Wheel Loader # | - | - | - | - | - | - |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Crawler Crane, mobile (diesel) | 60 | 4.5 | 8 | 1 | 36 | 21.6 |
| Slurry Pump # | - | - | - | - | - | - |
| Tower Crane # | - | - | - | - | - | - |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) # | - | - | - | - | - | - |
| Dump Truck | 80 | 2.4 | 10 | 1 | 24 | 19.2 |
| Total: | | | | | | 274.05 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.8% |
| | Percentage of Yearly Usage: | | | | | 0.195% |

| | | | | | | |
|-----------------------------------|--|--|--|--|--|-------------|
| Combined Yearly Percentage | | | | | | 1.1% |
|-----------------------------------|--|--|--|--|--|-------------|

Shatin to Central Link - Hung Hom to Admiralty Section

1 or 24 hr - Feb 2016 as the worst scenario in HUH with heaviest construction activities

Total works area = 5716 m²**HUH Landfall (Source ID: HLF)****Activity 1 - Excavation Works**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|--------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Hand held pneumatic breaker | 30 | 0.5 | 1 | 10 | 5 | 1.5 |
| Air Compressor # | - | - | - | - | - | - |
| Backhoe with hydraulic breaker | 50 | 3.2 | 8 | 4 | 102.4 | 51.2 |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Total: | | | | | | 155.1 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 2.7% |

NOV (Source ID: HLF)**Activity 2 - Excavate Soft Material**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|----------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crawler / Excavator Loader | 70 | 4.5 | 8 | 6 | 216 | 151.2 |
| Dump Truck | 30 | 2.4 | 10 | 6 | 144 | 43.2 |
| Mobile Crane | 30 | 2.6 | 10 | 3 | 78 | 23.4 |
| Total: | | | | | | 217.8 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 3.8% |

Activity 3 - Construction of NOV

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Mobile Crane | 30 | 4.5 | 8 | 1 | 36 | 10.8 |
| Bar Bender and Cutter # | - | - | - | - | - | - |
| Concrete Mixer Truck | 30 | 4.5 | 8 | 2 | 72 | 21.6 |
| Concrete Poker Vibrator # | - | - | - | - | - | - |
| Concrete Pump Truck | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Total: | | | | | | 40.2 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.7% |

| | |
|----------------------------|-------------|
| Combined Percentage | 7.2% |
|----------------------------|-------------|

Notes:

No dust generated machine

Shatin to Central Link - Hung Hom to Admiralty Section

1 or 24 hr - Aug 2016 as the worst scenario in Area A with heaviest construction activities

Total works area = 12578 m²**Construction of cut and cover tunnel section(outside breakwater - SCL2) (Source ID: TS2)****Activity 1 - Backfilling**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Tug Boat * | - | - | - | - | - | - |
| Derrick barges * | - | - | - | - | - | - |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| | | | | | Total: | 51.2 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.4% |

Activity 2 - Diaphragm wall removal

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|--|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Breaker, excavator mounted (hydraulic) | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Concrete crusher, excavator mounted | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Welding set # | - | - | - | - | - | - |
| Water Pump, submersible(electric) # | - | - | - | - | - | - |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Tug Boat * | - | - | - | - | - | - |
| Derrick barges * | - | - | - | - | - | - |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| | | | | | Total: | 103.65 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.8% |

Construction of cut and cover tunnel section(inside breakwater - SCL3.1) (Source ID: TS31)**Activity 1 - Diaphragm Wall Construction**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Crawler crane, mobile | 60 | 4.5 | 8 | 2 | 72 | 43.2 |
| Piling, diaphragm wall, bentonite filtering plant | 100 | 10 | 20 | 1 | 200 | 200 |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Bentonite mixer | 100 | 10 | 20 | 1 | 200 | 200 |
| Welding Set # | - | - | - | - | - | - |
| Bar Bender and Cutter(electric) # | - | - | - | - | - | - |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Drill rig, rotary type | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 |
| Grout Mixer # | - | - | - | - | - | - |
| Grout Pump # | - | - | - | - | - | - |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| | | | | | Total: | 498.46 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 4.0% |

| | | |
|----------------------------|--|-------------|
| Combined Percentage | | 5.2% |
|----------------------------|--|-------------|

Notes:

* Marine plant which would not contribute to active area.

No dust generated machine

Shatin to Central Link - Hung Hom to Admiralty Section

1 or 24 hr - Sep 2015 as the worst scenario in Area B with heaviest construction activities

Total works area = 15385 m2

SOV construction (Source ID: SOV)

Activity 1 - Excavation work at SOV

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|--------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Hand held pneumatic breaker | 30 | 0.5 | 1 | 10 | 5 | 1.5 |
| Air Compressor # | - | - | - | - | - | - |
| Backhoe with hydraulic breaker | 50 | 3.2 | 8 | 4 | 102.4 | 51.2 |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Total: | | | | | 155.1 | 155.1 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 1.0% |

Construction of cut and cover tunnel section(SCL 1.4) (Source ID: TS1)

Activity 1 - Excavation work

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|--------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Hand held pneumatic breaker | 30 | 0.5 | 1 | 10 | 5 | 1.5 |
| Air Compressor # | - | - | - | - | - | - |
| Backhoe with hydraulic breaker | 50 | 3.2 | 8 | 4 | 102.4 | 51.2 |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Total: | | | | | 155.1 | 155.1 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 1.0% |

Underpinning of Canal Road Flyover (Source ID: CANAL_RD)

Activity 1 - Excavation and Construction of pre-bored H-piles

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane, mobile | 60 | 2.6 | 10 | 1 | 26 | 15.6 |
| Lorry with crane/grab | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Rock Drill | 30 | 2.3 | 6 | 4 | 55.2 | 16.56 |
| Air Compressor # | - | - | - | - | - | - |
| Piling, large diameter bored, grab and chisel | 70 | 2.3 | 6 | 1 | 13.8 | 9.66 |
| Welder/generator, portable # | - | - | - | - | - | - |
| Total: | | | | | 52.22 | 52.22 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.3% |

Underpinning of Pier of Causeway Flyover (Source ID: CWFLY)

Activity 1 - Excavation and Construction of new piles

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Rock Drill | 30 | 2.3 | 6 | 1 | 13.8 | 4.14 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Piling, large diameter bored, grab and chisel | 40 | 2.3 | 6 | 1 | 13.8 | 5.52 |
| Welder/generator, portable # | - | - | - | - | - | - |
| Total: | | | | | 32.82 | 32.82 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |

Activity 2 - Construct pile cap

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | 22.56 | 22.56 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.1% |

Underpinning of Abutment of Causeway Flyover (Source ID: CWFLY)**Activity 1 - Excavation and Construction of new piles**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Lorry with crane/grab | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Rock Drill | 30 | 2.3 | 6 | 1 | 13.8 | 4.14 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Piling, large diameter bored, grab and chisel | 40 | 2.3 | 6 | 1 | 13.8 | 5.52 |
| Welder/generator, portable # | - | - | - | - | - | - |
| Total: | | | | | 32.82 | |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.2% |

Activity 2 - Construct pile cap

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | 22.56 | |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.1% |

| | | | | | | |
|----------------------------|--|--|--|--|--|-------------|
| Combined Percentage | | | | | | 3.1% |
|----------------------------|--|--|--|--|--|-------------|

Notes:

No dust generated machine

Shatin to Central Link - Hung Hom to Admiralty Section

1 or 24 hr - Jul 2014 as the worst scenario in Area C with heaviest construction activities

Total works area = 5533 m²**EXH station****(iv) At Wan Chai Sports Ground/ Tonnochy Road Area (Source ID: WCSG)****Activity 1- Demolition & temp re-provision of grandstand**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|------------------------------|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Drill, percussive, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Saw,concrete | 50 | 1 | 2 | 2 | 4 | 2 |
| Excavator | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Crane lorry, mobile | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Dump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Lorry | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 42.45 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 0.8% |

Convention Avenue Launching Shaft Construction (Source ID: CACP)**Activity 1- Diaphragm wall excavation**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) # | - | - | - | - | - | - |
| Crawler Crane, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Piling, diaphragm wall, bentonite filtering plant | 100 | 10 | 20 | 1 | 200 | 200 |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Bentonite mixer | 100 | 10 | 20 | 1 | 200 | 200 |
| Welding Set # | - | - | - | - | - | - |
| Total: | | | | | | 445 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 8.0% |

Activity 2- Diaphragm wall reinforcement fixing and concrete casting

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) # | - | - | - | - | - | - |
| Crawler Crane, mobile | 60 | 4.5 | 8 | 2 | 72 | 43.2 |
| Piling, diaphragm wall, bentonite filtering plant | 100 | 10 | 20 | 1 | 200 | 200 |
| Piling, diaphragm wall, hydraulic extractor | 100 | 2.3 | 6 | 1 | 13.8 | 13.8 |
| Bar bender and cutter(electric) # | - | - | - | - | - | - |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Total: | | | | | | 281 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 5.1% |
| Combined Percentage | | | | | | 13.9% |

Shatin to Central Link - Hung Hom to Admiralty Section

1 or 24 hr - Jul 2013 as the worst scenario in Area D with heaviest construction activities

Total works area = 5270 m²**EXH Station****(i) At Harbour Road Sports Centre/ Wan Chai Swimming Pool (Source ID: IGH)****Activity 1 - Demolish of staircase & relocation of oil tank**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|----------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Saw,concrete | 30 | 1 | 2 | 1 | 2 | 0.6 |
| Air Compressor # | - | - | - | - | - | - |
| Hand Held breaker | 40 | 0.5 | 1 | 1 | 0.5 | 0.2 |
| Dump Truck with grab | 80 | 2.4 | 10 | 1 | 24 | 19.2 |
| Welder/generator # | - | - | - | - | - | - |
| Crane, mobile | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Hydraulic breaker | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Total: | | | | | | 61.12 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 1.2% |

Activity 2 - Demolition of staircase of existing FB linking Causeway Center and Harbour Centre

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|----------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Saw,concrete | 30 | 1 | 2 | 1 | 2 | 0.6 |
| Air Compressor # | - | - | - | - | - | - |
| Hand Held breaker | 40 | 0.5 | 1 | 1 | 0.5 | 0.2 |
| Dump Truck with grab | 80 | 2.4 | 10 | 1 | 24 | 19.2 |
| Welder/generator # | - | - | - | - | - | - |
| Crane, mobile | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Hydraulic breaker | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Total: | | | | | | 61.12 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 1.2% |

Activity 3 - Demolition of elevated walkway to Harbour Road Sports Centre

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|----------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Breaker, excavator mounted | 70 | 3.2 | 8 | 2 | 51.2 | 35.84 |
| Dump Truck | 30 | 2.4 | 10 | 2 | 48 | 14.4 |
| Total: | | | | | | 50.24 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 1.0% |

Activity 4 - Temporary filtration plant room construction

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|--------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator, tracked | 30 | 3.2 | 8 | 1 | 25.6 | 7.68 |
| Dump Truck | 30 | 2.4 | 10 | 2 | 48 | 14.4 |
| Total: | | | | | | 22.08 |
| Activity 4 | Percentage of Usage Area to Works Area: | | | | | 0.4% |

Activity 5 - Demolition of staircase of existing FB across Harbour Road near Sun Hung Kei Centre

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|----------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Saw,concrete | 30 | 1 | 2 | 1 | 2 | 0.6 |
| Air Compressor # | - | - | - | - | - | - |
| Hand Held breaker | 40 | 0.5 | 1 | 1 | 0.5 | 0.2 |
| Dump Truck with grab | 80 | 2.4 | 10 | 1 | 24 | 19.2 |
| Welder/generator # | - | - | - | - | - | - |
| Crane, mobile | 40 | 2.6 | 10 | 1 | 26 | 10.4 |
| Excavator | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Hydraulic breaker | 60 | 3.2 | 8 | 1 | 25.6 | 15.36 |
| Total: | | | | | | 61.12 |
| Activity 5 | Percentage of Usage Area to Works Area: | | | | | 1.2% |

Appendix 8.6b Justification for the percentage of Short-term Average Active Area

Activity 6 - Piling works for Phase 1 Structure

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Piling, large diameter bored, grab and chisel | 50 | 2.3 | 6 | 1 | 13.8 | 6.9 |
| Piling, large diameter bored, oscillator | 50 | 2.3 | 6 | 1 | 13.8 | 6.9 |
| Piling, bentonite filtering plant | 50 | 10 | 20 | 1 | 200 | 100 |
| Piling, hydraulic extractor | 50 | 4.5 | 8 | 1 | 36 | 18 |
| Crane | 50 | 4.5 | 8 | 2 | 72 | 36 |
| Generator, super silenced # | - | - | - | - | - | - |
| Dump Truck | 40 | 2.4 | 10 | 4 | 96 | 38.4 |
| Bar Bender # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | | 213.4 |
| Activity 6 | Percentage of Usage Area to Works Area: | | | | | 4.0% |
| Combined Percentage | | | | | | 8.9% |

Shatin to Central Link - Hung Hom to Admiralty Section

1 or 24 hr - Dec 2013 as the worst scenario in Area E with heaviest construction activities

Total works area = 12276 m²**EXH Station**

(ii) At PTI Area (Source ID: PTI)

Activity 1 - Demolition of existing Wan Chai Ferry Pier footbridge

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) | |
|----------------------|-------------------------|-----------|-------|-------------|--|---|-------------|
| | | B (m) | L (m) | No. of Item | Area(m ²) | | |
| Saw,concrete | 30 | 1 | 2 | 1 | 2 | 0.6 | |
| Air Compressor # | - | - | - | - | - | - | |
| Hand Held breaker | 60 | 0.5 | 1 | 4 | 2 | 1.2 | |
| Dump Truck with grab | 70 | 2.4 | 10 | 1 | 24 | 16.8 | |
| Welder/generator # | - | - | - | - | - | - | |
| Excavator | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 | |
| Hydraulic breaker | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 | |
| Total: | | | | | 44.2 | | |
| Activity 1 | | | | | Percentage of Usage Area to Works Area: | | 0.4% |

Activity 2 - Diaphragm Wall Construction

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) | |
|---|-------------------------|-----------|-------|-------------|--|---|-------------|
| | | B (m) | L (m) | No. of Item | Area(m ²) | | |
| Generator, standard # | - | - | - | - | - | - | |
| Dump Truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 | |
| Diaphragm wall, bentonite filtering plant | 40 | 10 | 20 | 1 | 200 | 80 | |
| Bar Bender and cutter(electric) # | - | - | - | - | - | - | |
| Crane, tower(electric) | 50 | 2.6 | 10 | 1 | 26 | 13 | |
| Crane, lorry, mobile | 30 | 2.4 | 10 | 1 | 24 | 7.2 | |
| Poker, vibrator, hand-held # | - | - | - | - | - | - | |
| Air compressor # | - | - | - | - | - | - | |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 | |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 | |
| Total: | | | | | 121.8 | | |
| Activity 2 | | | | | Percentage of Usage Area to Works Area: | | 1.0% |

| | |
|----------------------------|-------------|
| Combined Percentage | 1.4% |
|----------------------------|-------------|

Shatin to Central Link - Hung Hom to Admiralty Section

1 or 24 hr - Jul 2018 as the worst scenario in Area F with heaviest construction activities

Total works area = 4776 m²**EXH station****(iii) At Fleming Road (Source ID: FLEM_RD)****Activity 1 - Construction of Internal Structures of Station Box**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane lorry, mobile | 60 | 2.6 | 10 | 2 | 52 | 31.2 |
| Generator, standard # | - | - | - | - | - | - |
| Lorry | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Rock drill, crawler mounted (pneumatic) | 30 | 4.5 | 8 | 1 | 36 | 10.8 |
| Ventilation fans | 70 | 1 | 1 | 2 | 2 | 1.4 |
| Power pack for hand-held items of PME # | - | - | - | - | - | - |
| dump truck | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Water pump (electric) # | - | - | - | - | - | - |
| Welder/ generator, portable # | - | - | - | - | - | - |
| Total: | | | | | 74.6 | |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 1.6% |

Activity 2 - Construction of Entrance and Vent Shafts

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 30 | 2.4 | 10 | 2 | 48 | 14.4 |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | 36.6 | |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 0.8% |

Activity 3 - Construction of Station Box Roof Slab

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Crane lorry, mobile | 30 | 2.6 | 10 | 1 | 26 | 7.8 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Concrete pump | 30 | 2.4 | 10 | 1 | 24 | 7.2 |
| Total: | | | | | 29.4 | |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.6% |

| | | | | | | |
|----------------------------|--|--|--|--|--|-------------|
| Combined Percentage | Percentage of Usage Area to Works Area: | | | | | 2.9% |
|----------------------------|--|--|--|--|--|-------------|

Shatin to Central Link - Hung Hom to Admiralty Section

1 or 24 hr - Oct 2016 as the worst scenario in Area G with heaviest construction activities

Total works area = 11427 m²**Tunnel at West of EXH (Source ID: CCT)****Activity 1 - Tunnel Box Construction**

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|--------------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Bar bender and cutter (electric) # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Compactor, vibratory | 50 | 5.8 | 2.5 | 1 | 14.5 | 7.25 |
| Concrete lorry mixer | 50 | 2.4 | 10 | 2 | 48 | 24 |
| Crawler Crane, mobile | 60 | 4.5 | 8 | 1 | 36 | 21.6 |
| Ventilation Fans | 100 | 1 | 1 | 2 | 2 | 2 |
| Air compressor # | - | - | - | - | - | - |
| Water pump(electric) # | - | - | - | - | - | - |
| Total: | | | | | | 54.85 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.5% |

Activity 2 - Diaphragm wall construction

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Generator, standard # | - | - | - | - | - | - |
| Dump truck | 20 | 2.4 | 10 | 1 | 24 | 4.8 |
| diaphragm wall, bentonite filtering plant | 40 | 10 | 20 | 1 | 200 | 80 |
| Bar bender and cutter (electric) # | - | - | - | - | - | - |
| Crane, tower (electric) | 50 | 2.6 | 10 | 1 | 26 | 13 |
| Crane lorry, mobile | 20 | 2.6 | 10 | 1 | 26 | 5.2 |
| Poker, vibrator, hand-held # | - | - | - | - | - | - |
| Air Compressor # | - | - | - | - | - | - |
| Concrete lorry mixer | 20 | 2.4 | 10 | 1 | 24 | 4.8 |
| Concrete pump | 20 | 2.4 | 10 | 1 | 24 | 4.8 |
| Total: | | | | | | 112.6 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 1.0% |

Activity 3 - Excavation

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|--|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Breaker, excavator mounted (hydraulic) | 50 | 3.2 | 8 | 1 | 25.6 | 12.8 |
| Breaker, hand-held | 50 | 0.5 | 1 | 1 | 0.5 | 0.25 |
| Welding Set # | - | - | - | - | - | - |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Gantry Crane (electric) # | - | - | - | - | - | - |
| Ventilation Fans | 100 | 1 | 1 | 1 | 1 | 1 |
| Dump Truck | 80 | 2.4 | 10 | 1 | 24 | 19.2 |
| Air compressor # | - | - | - | - | - | - |
| Water Pump (electric) # | - | - | - | - | - | - |
| Total: | | | | | | 84.45 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 0.7% |

Activity 4 - Backfilling

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|--------------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 1 | 25.6 | 25.6 |
| Water Pump, submersible (electric) # | - | - | - | - | - | - |
| Crawler Crane, mobile | 30 | 4.5 | 8 | 1 | 36 | 10.8 |
| Ventilation Fans | 60 | 1 | 1 | 1 | 1 | 0.6 |
| Concrete Lorry mixer | 5 | 2.4 | 10 | 1 | 24 | 1.2 |
| Water Pump (electric) # | - | - | - | - | - | - |
| Dump Truck | 60 | 2.4 | 10 | 1 | 24 | 14.4 |
| Total: | | | | | | 52.6 |
| Activity 4 | Percentage of Usage Area to Works Area: | | | | | 0.5% |

| | | | | | | |
|----------------------------|--|--|--|--|--|-------------|
| Combined Percentage | | | | | | 2.7% |
|----------------------------|--|--|--|--|--|-------------|

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

TCBR3 - CWB Tunnel

Total works area = 10467 m²

Activity 1 - Excavation

| | | | | | | |
|-------|-----------|-----|-----------|-----------|---|--------|
| From: | 16-Jan-14 | To: | 31-Mar-14 | Duration: | 2 | months |
|-------|-----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-----------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Dump Truck | 100 | 2.4 | 10 | 12 | 288 | 288 |
| Total: | | | | | | 390.4 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 3.7% |
| | Percentage of Yearly Usage: | | | | | 0.62% |
| Combined Yearly Percentage | | | | | | 0.6% |

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

TCBR4 - Filling

Total works area = 25328 m²

Activity 1 - Filling behind seawall

| | | | | | | |
|-------|----------|-----|-----------|-----------|---|--------|
| From: | 1-Dec-13 | To: | 28-Mar-14 | Duration: | 4 | months |
|-------|----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Derrick Barge* | 100 | - | - | 2 | - | - |
| Barge* | 100 | - | - | 2 | - | - |
| Tug Boat* | 100 | - | - | 2 | - | - |
| Bulldozer | 100 | 5.4 | 10.9 | 2 | 117.72 | 117.72 |
| Total: | | | | | | 117.72 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.5% |
| | Percentage of Yearly Usage: | | | | | 0.15% |

| | |
|-----------------------------------|-------------|
| Combined Yearly Percentage | 0.2% |
|-----------------------------------|-------------|

Notes:

* Marine plant which would not contribute to active area.

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

TPCWAW - CWB Tunnel

Total works area = 8151 m²

Activity 1 - Diaphragm Wall Construction

| | | | | | | |
|-------|----------|-----|----------|-----------|---|--------|
| From: | 1-Jun-13 | To: | 7-Jan-14 | Duration: | 7 | months |
|-------|----------|-----|----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane # | 100 | - | - | 4 | - | - |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Dump Truck | 100 | 2.4 | 10 | 8 | 192 | 192 |
| Concrete Pump # | 100 | - | - | 4 | - | - |
| Concrete Truck | 100 | 2.4 | 10 | 4 | 96 | 96 |
| Bentonite Plants # | 100 | - | - | 4 | - | - |
| Bar Bender # | 100 | - | - | 2 | - | - |
| Diaphragm Wall Rigs | 100 | 4.5 | 8 | 4 | 144 | 144 |
| Total: | | | | | | 534.4 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 6.6% |
| | Percentage of Yearly Usage: | | | | | 3.8% |

Activity 2 - Excavation

| | | | | | | |
|-------|----------|-----|-----------|-----------|---|--------|
| From: | 8-Jan-14 | To: | 31-Mar-14 | Duration: | 3 | months |
|-------|----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Dump Truck | 100 | 2.4 | 10 | 12 | 288 | 288 |
| Total: | | | | | | 390.4 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 4.8% |
| | Percentage of Yearly Usage: | | | | | 1.20% |

| | | |
|-----------------------------------|--|-------------|
| Combined Yearly Percentage | | 5.0% |
|-----------------------------------|--|-------------|

Notes:

No dust generated machine

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

WCR2 - CWB Tunnel

Total works area = 9318 m²

Activity 1 - Construction of slabs

| | | | | | | |
|-------|----------|-----|-----------|-----------|---|--------|
| From: | 1-Jun-13 | To: | 11-Aug-13 | Duration: | 2 | months |
|-------|----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|----------------------|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane # | 100 | - | - | 2 | - | - |
| Concrete Pump # | 100 | - | - | 4 | - | - |
| Concrete Lorry Mixer | 100 | 2.4 | 10 | 8 | 192 | 192 |
| Poker Vibrator # | 100 | - | - | 4 | - | - |
| Bar Bender # | 100 | - | - | 2 | - | - |
| Air Compressor # | 100 | - | - | 4 | - | - |
| Total: | | | | | | 192 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 2.1% |
| | | | | | | Percentage of Yearly Usage: 0.34% |

Activity 2 - Backfill

| | | | | | | |
|-------|-----------|-----|----------|-----------|---|--------|
| From: | 13-Aug-13 | To: | 7-Nov-13 | Duration: | 3 | months |
|-------|-----------|-----|----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-------------------|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Roller | 100 | 5.8 | 2.5 | 2 | 29 | 29 |
| Bulldozer | 100 | 5.4 | 10.9 | 2 | 117.7 | 117.7 |
| Dump Truck | 100 | 2.4 | 10 | 4 | 96 | 96 |
| Total: | | | | | | 345.12 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 3.7% |
| | | | | | | Percentage of Yearly Usage: 0.93% |

| | |
|-----------------------------------|-------------|
| Combined Yearly Percentage | 1.3% |
|-----------------------------------|-------------|

Notes:

No dust generated machine

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

WCR3 - Filling

Total works area = 14199 m²

Activity 1 - Filling behind seawall

| | | | | | | |
|-------|-----------|-----|-----------|-----------|---|--------|
| From: | 27-Aug-13 | To: | 24-Oct-13 | Duration: | 2 | months |
|-------|-----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Derrick Barge* | 100 | - | - | 2 | - | - |
| Barge* | 100 | - | - | 2 | - | - |
| Tug Boat* | 100 | - | - | 2 | - | - |
| Bulldozer | 100 | 5.4 | 10.9 | 2 | 117.72 | 117.72 |
| Total: | | | | | | 117.72 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.8% |
| | Percentage of Yearly Usage: | | | | | 0.14% |

| | |
|-----------------------------------|-------------|
| Combined Yearly Percentage | 0.1% |
|-----------------------------------|-------------|

Notes:

* Marine plant which would not contribute to active area.

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

WCR4 - Filling & Drainage

Total works area = 4879 m²

Activity 1 - Filling behind seawall

| | | | | | | |
|-------|-----------|-----|----------|-----------|---|--------|
| From: | 15-Jan-14 | To: | 4-Feb-14 | Duration: | 1 | months |
|-------|-----------|-----|----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Derrick Barge* | 100 | - | - | 2 | - | - |
| Barge* | 100 | - | - | 2 | - | - |
| Tug Boat* | 100 | - | - | 2 | - | - |
| Bulldozer | 100 | 5.4 | 10.9 | 2 | 117.72 | 117.72 |
| Total: | | | | | | 117.72 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 2.4% |
| | Percentage of Yearly Usage: | | | | | 0.20% |

Activity 2 - Drainage Culvert

| | | | | | | |
|-------|----------|-----|----------|-----------|---|--------|
| From: | 5-Feb-14 | To: | 5-Apr-14 | Duration: | 2 | months |
|-------|----------|-----|----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|----------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Dump Truck | 100 | 2.4 | 10 | 4 | 96 | 96 |
| Concrete Lorry Mixer | 100 | 2.4 | 10 | 2 | 48 | 48 |
| Excavator | 100 | 3.2 | 8 | 2 | 51.2 | 51.2 |
| Poker Vibrator # | 100 | - | - | 4 | - | - |
| Bulldozer | 100 | 5.4 | 10.9 | 2 | 117.72 | 117.72 |
| Roller | 100 | 5.8 | 2.5 | 2 | 29 | 29 |
| Bar Bender # | 100 | - | - | 2 | - | - |
| Air Compressor # | 100 | - | - | 2 | - | - |
| Total: | | | | | | 341.92 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 7.0% |
| | Percentage of Yearly Usage: | | | | | 1.17% |

| | |
|-----------------------------------|-------------|
| Combined Yearly Percentage | 1.4% |
|-----------------------------------|-------------|

Notes:

* Marine plant which would not contribute to active area.

No dust generated machine

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

HKCEC2W - CWB Tunnel

Total works area = 22213 m²

Activity 1 - Diaphragm Wall Construction

| | | | | | | |
|-------|----------|-----|----------|-----------|---|--------|
| From: | 2-Oct-13 | To: | 8-Apr-14 | Duration: | 6 | months |
|-------|----------|-----|----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---------------------|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane # | 100 | - | - | 4 | - | - |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Dump Truck | 100 | 2.4 | 10 | 8 | 192 | 192 |
| Concrete Pump # | 100 | - | - | 4 | - | - |
| Concrete Truck | 100 | 2.4 | 10 | 4 | 96 | 96 |
| Bentonite Plants # | 100 | - | - | 4 | - | - |
| Bar Bender # | 100 | - | - | 2 | - | - |
| Diaphragm Wall Rigs | 100 | 4.5 | 8 | 4 | 144 | 144 |
| Total: | | | | | | 534.4 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 2.4% |
| | | | | | | Percentage of Yearly Usage: 1.20% |

Activity 2 - Excavation

| | | | | | | |
|-------|-----------|-----|-----------|-----------|---|--------|
| From: | 24-Jan-14 | To: | 31-Mar-14 | Duration: | 2 | months |
|-------|-----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-------------------|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Dump Truck | 100 | 2.4 | 10 | 12 | 288 | 288 |
| Total: | | | | | | 390.4 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 1.8% |
| | | | | | | Percentage of Yearly Usage: 0.29% |

| | | |
|-----------------------------------|--|-------------|
| Combined Yearly Percentage | | 1.5% |
|-----------------------------------|--|-------------|

Notes:

No dust generated machine

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

HKCEC3W - CWB Tunnel

Total works area = 14778 m²

Activity 1 - Diaphragm Wall Construction

| | | | | | | |
|-------|-----------|-----|-----------|-----------|---|--------|
| From: | 23-Nov-13 | To: | 13-Mar-14 | Duration: | 4 | months |
|-------|-----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane # | 100 | - | - | 4 | - | - |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Dump Truck | 100 | 2.4 | 10 | 8 | 192 | 192 |
| Concrete Pump # | 100 | - | - | 4 | - | - |
| Concrete Truck | 100 | 2.4 | 10 | 4 | 96 | 96 |
| Bentonite Plants # | 100 | - | - | 4 | - | - |
| Bar Bender # | 100 | - | - | 2 | - | - |
| Diaphragm Wall Rigs | 100 | 4.5 | 8 | 4 | 144 | 144 |
| Total: | | | | | | 534.4 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 3.6% |
| | Percentage of Yearly Usage: | | | | | 1.21% |

Activity 2 - Excavation

| | | | | | | |
|-------|-----------|-----|-----------|-----------|---|--------|
| From: | 21-Dec-13 | To: | 31-Mar-14 | Duration: | 3 | months |
|-------|-----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Dump Truck | 100 | 2.4 | 10 | 12 | 288 | 288 |
| Total: | | | | | | 390.4 |
| Activity 2 | Percentage of Usage Area to Works Area: | | | | | 2.6% |
| | Percentage of Yearly Usage: | | | | | 0.66% |

Activity 3 - Construction of slabs

| | | | | | | |
|-------|-----------|-----|-----------|-----------|-----|--------|
| From: | 26-Mar-14 | To: | 31-Mar-14 | Duration: | 0.2 | months |
|-------|-----------|-----|-----------|-----------|-----|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|----------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane # | 100 | - | - | 2 | - | - |
| Concrete Pump # | 100 | - | - | 4 | - | - |
| Concrete Lorry Mixer | 100 | 2.4 | 10 | 8 | 192 | 192 |
| Poker Vibrator # | 100 | - | - | 4 | - | - |
| Bar Bender # | 100 | - | - | 2 | - | - |
| Air Compressor # | 100 | - | - | 4 | - | - |
| Total: | | | | | | 192 |
| Activity 3 | Percentage of Usage Area to Works Area: | | | | | 1.3% |
| | Percentage of Yearly Usage: | | | | | 0.02% |

| | | | | | | |
|-----------------------------------|--|--|--|--|--|-------------|
| Combined Yearly Percentage | | | | | | 1.9% |
|-----------------------------------|--|--|--|--|--|-------------|

Notes:

No dust generated machine

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

HKCEC3E - CWB Tunnel

Total works area = 5954 m²

Activity 1 - Diaphragm Wall Construction

| | | | | | | |
|-------|-----------|-----|-----------|-----------|---|--------|
| From: | 23-Nov-13 | To: | 13-Mar-14 | Duration: | 4 | months |
|-------|-----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|---------------------|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane # | 100 | - | - | 4 | - | - |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Dump Truck | 100 | 2.4 | 10 | 8 | 192 | 192 |
| Concrete Pump # | 100 | - | - | 4 | - | - |
| Concrete Truck | 100 | 2.4 | 10 | 4 | 96 | 96 |
| Bentonite Plants # | 100 | - | - | 4 | - | - |
| Bar Bender # | 100 | - | - | 2 | - | - |
| Diaphragm Wall Rigs | 100 | 4.5 | 8 | 4 | 144 | 144 |
| Total: | | | | | | 534.4 |
| Activity 1 | | | | | | Percentage of Usage Area to Works Area: 9.0% |
| | | | | | | Percentage of Yearly Usage: 2.99% |

Activity 2 - Excavation

| | | | | | | |
|-------|-----------|-----|-----------|-----------|---|--------|
| From: | 21-Dec-13 | To: | 31-Mar-14 | Duration: | 3 | months |
|-------|-----------|-----|-----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|-------------------|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Excavator | 100 | 3.2 | 8 | 4 | 102.4 | 102.4 |
| Dump Truck | 100 | 2.4 | 10 | 12 | 288 | 288 |
| Total: | | | | | | 390.4 |
| Activity 2 | | | | | | Percentage of Usage Area to Works Area: 6.6% |
| | | | | | | Percentage of Yearly Usage: 1.64% |

Activity 3 - Construction of slabs

| | | | | | | |
|-------|-----------|-----|-----------|-----------|-----|--------|
| From: | 26-Mar-14 | To: | 31-Mar-14 | Duration: | 0.2 | months |
|-------|-----------|-----|-----------|-----------|-----|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|----------------------|-------------------------|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Crane # | 100 | - | - | 2 | - | - |
| Concrete Pump # | 100 | - | - | 4 | - | - |
| Concrete Lorry Mixer | 100 | 2.4 | 10 | 8 | 192 | 192 |
| Poker Vibrator # | 100 | - | - | 4 | - | - |
| Bar Bender # | 100 | - | - | 2 | - | - |
| Air Compressor # | 100 | - | - | 4 | - | - |
| Total: | | | | | | 192 |
| Activity 3 | | | | | | Percentage of Usage Area to Works Area: 3.2% |
| | | | | | | Percentage of Yearly Usage: 0.05% |

| | | |
|-----------------------------------|--|-------------|
| Combined Yearly Percentage | | 4.7% |
|-----------------------------------|--|-------------|

Notes:

No dust generated machine

WDII and CWB at CBTS

Yearly Estimate - Mid 2013 to Early 2014
(Scenario 1)

IEC Connection Work

Total works area = 35723 m²

Activity 1 - Substructures

| | | | | | | |
|-------|----------|-----|----------|-----------|---|--------|
| From: | 2-Nov-13 | To: | 5-Feb-14 | Duration: | 3 | months |
|-------|----------|-----|----------|-----------|---|--------|

| Plant | Percentage of Usage (%) | Plan Size | | | | Area in term of Time of Usage (m ²) |
|------------------------------|--|-----------|-------|-------------|-----------------------|---|
| | | B (m) | L (m) | No. of Item | Area(m ²) | |
| Concrete Lorry Mixer | 100 | 2.4 | 10 | 2 | 48 | 48 |
| Poker Vibrator # | 70 | - | - | 2 | - | - |
| Crane # | 70 | - | - | 1 | - | - |
| Air Compressor # | 100 | - | - | 5 | - | - |
| Excavator | 70 | 3.2 | 8 | 2 | 35.84 | 25.088 |
| Water Pump # | 100 | - | - | 6 | - | - |
| Concrete Pump # | 100 | - | - | 2 | - | - |
| Piling, Large diameter bored | 100 | 2.3 | 6 | 2 | 27.6 | 27.6 |
| Total: | | | | | | 100.688 |
| Activity 1 | Percentage of Usage Area to Works Area: | | | | | 0.3% |
| | Percentage of Yearly Usage: | | | | | 0.1% |

| | |
|-----------------------------------|-------------|
| Combined Yearly Percentage | 0.1% |
|-----------------------------------|-------------|

Notes:

No dust generated machine