

Project : SCL - Tai Wai to Hung Hom Section
Title : Plant Inventory

Tunnel - Area C1				SWL of Single PME			Total SWL		
Worksite S1				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Concrete Structures EWL and Concrete Structures EWL (existing culvert loc)	Nov 2015 - Mar 2016	Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Bar Bender and Cutter (CNP021) (30%)	1	85	85	85	85	85	85
		Concrete Mixer Truck (CNP044) (50%)	1	106	106	101	106	106	101
		Concrete pump (CNP047) (50%)	1	106	104	99	106	104	99
		Poker, Vibratory, Hand Held (CNP170) (50%)	2	110	95	90	113	98	93
				116	109	104	117	109	104

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Tunnel - Area C2				SWL of Single PME			Total SWL		
Worksite S2				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Concrete Structures EWL	Jun 2015 - Aug 2015	Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Bar Bender and Cutter (CNP021) (30%)	2	85	85	85	88	88	88
		Concrete Mixer Truck (CNP044) (50%)	2	106	106	101	109	109	104
		Concrete pump (CNP047) (50%)	2	106	104	99	109	107	102
		Poker, Vibratory, Hand Held (CNP170) (50%)	4	110	95	90	116	101	96
				116	109	104	119	112	107

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Tunnel - Area C3B (STA building to Chatham Road North (OB2))				SWL of Single PME			Total SWL		
Worksite S3a				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Temporary Cofferdam EWL	Dec 2012 - Feb 2013	Piling Rig and Drilling Rig (CNP167) (70%)	1	112	107	97	112	107	97
		Grout Mixer (CNP105) (50%)	1	87	87	82	87	87	82
		Grout Pump (CNP106) (40%)	1	101	101	96	101	101	96
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Drill Rig, Rotary Type (Diesel) (CNP072) (50%)	1	107	107	102	107	107	102
		Breaker, Excavator Mounted (Hydraulic) (CNP028) (30%)	1	117	105	100	117	105	100
						119	112	106	119
Excavation & Shoring EWL	Mar 2013 - May 2013	Mini Backhoe (CNP082) (70%)	1	92	92	87	92	92	87
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
				112	100	95	112	100	95
Concrete Structures EWL	Jun 2013 - Oct 2013	Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Bar Bender and Cutter (CNP021) (30%)	1	85	85	85	85	85	85
		Concrete Mixer Truck (CNP044) (50%)	1	106	106	101	106	106	101
		Concrete pump (CNP047) (50%)	1	106	104	99	106	104	99
		Poker, Vibratory, Hand Held (CNP170) (50%)	1	110	95	90	110	95	90
				114	109	104	114	109	104

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Tunnel - Area C3B (Winslow Street to Chatham Road North)				SWL of Single PME			Total SWL		
Worksite S3b				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Stage 1 Across Rd Cofferdam Construction	Jan 2014 - Feb 2014	Piling Rig and Drilling Rig (CNP167) (70%)	1	112	107	97	112	107	97
		Grout Mixer (CNP105) (50%)	1	87	87	82	87	87	82
		Grout Pump (CNP106) (40%)	1	101	101	96	101	101	96
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Drill Rig, Rotary Type (Diesel) (CNP072) (50%)	1	107	107	102	107	107	102
		Breaker, Excavator Mounted (Hydraulic) (CNP028) (30%)	1	117	105	100	117	105	100
						119	112	106	119
Excavation	Mar 2014 - Apr 2014	Mini Backhoe (CNP082) (70%)	1	92	92	87	92	92	87
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
				112	100	95	112	100	95
Structure EWL (Winslow St.) - Stage 1	May 2014 - Jul 2014	Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Bar Bender and Cutter (CNP021) (30%)	2	85	85	85	88	88	88
		Concrete Mixer Truck (CNP044) (50%)	2	106	106	101	109	109	104
		Concrete pump (CNP047) (50%)	1	106	104	99	106	104	99
		Poker, Vibratory, Hand Held (CNP170) (50%)	4	110	95	90	116	101	96
				114	109	104	118	111	106
Stage 2 Across Rd Cofferdam Construction	Sept 2014 - Nov 2014	Piling Rig and Drilling Rig (CNP167) (70%)	1	112	107	97	112	107	97
		Grout Mixer (CNP105) (50%)	1	87	87	82	87	87	82
		Grout Pump (CNP106) (40%)	1	101	101	96	101	101	96
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Drill Rig, Rotary Type (Diesel) (CNP072) (50%)	1	107	107	102	107	107	102
		Breaker, Excavator Mounted (Hydraulic) (CNP028) (30%)	1	117	105	100	117	105	100
						119	112	106	119
Stage 3 Across Rd Cofferdam Construction	Dec 2014 - Jan 2015	Piling Rig and Drilling Rig (CNP167) (70%)	1	112	107	97	112	107	97
		Grout Mixer (CNP105) (50%)	1	87	87	82	87	87	82
		Grout Pump (CNP106) (40%)	1	101	101	96	101	101	96
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Drill Rig, Rotary Type (Diesel) (CNP072) (50%)	1	107	107	102	107	107	102
		Breaker, Excavator Mounted (Hydraulic) (CNP028) (30%)	1	117	105	100	117	105	100
						119	112	106	119
Excavation	Feb 2015 - Mar 2015	Mini Backhoe (CNP082) (70%)	1	92	92	87	92	92	87
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
				112	100	95	112	100	95
Structure EWL (Winslow St.) - Stage 3	Apr 2015 - Jun 2015	Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Bar Bender and Cutter (CNP021) (30%)	2	85	85	85	88	88	88
		Concrete Mixer Truck (CNP044) (50%)	2	106	106	101	109	109	104
		Concrete pump (CNP047) (50%)	1	106	104	99	106	104	99
		Poker, Vibratory, Hand Held (CNP170) (50%)	4	110	95	90	116	101	96
				114	109	104	118	111	106

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Tunnel - Area C3B (Winslow Street to Chatham Road North)				SWL of Single PME			Total SWL		
Worksite S3b				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Reinstate Winslow St.	Jul 2015 - Oct 2015	Piling, Diaphragm Wall, Hydraulic Extractor (CNP163) (60%)	1	88	88	83	88	88	83
		Dump Truck (CNP067) (60%)	1	115	102	97	115	102	97
		Asphalt Paver (CNP004) (50%)	1	106	98	93	106	98	93
		Roller (CNP185) (50%)	1	105	98	93	105	98	93
		Concrete Mixer Truck (CNP044) (30%)	1	104	95	90	104	95	90
				116	105	100	116	105	100
Traffic Diversion works (Winslow St)	Jul 2014 - Sept 2014	Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Bar Bender and Cutter (CNP021) (30%)	2	85	85	85	88	88	88
		Concrete Mixer Truck (CNP044) (50%)	2	106	106	101	109	109	104
		Concrete pump (CNP047) (50%)	1	106	104	99	106	104	99
		Poker, Vibratory, Hand Held (CNP170) (50%)	4	110	95	90	116	101	96
				114	109	104	118	111	106

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Tunnel - Area C4A				SWL of Single PME			Total SWL		
Worksite S4a				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Site Clearance and Hoarding and Utility diversion	Sept 2012 - Dec 2012	Excavator/Loader, Wheeled/Tracked (CNP081) (60%)	1	110	104	99	110	104	99
		Air Compressor (CNP003) (50%)	1	101	100	90	101	100	90
		Hand Held Breaker (CNP025) (50%)	1	108	103	98	108	103	98
		Lorry, Crane/Grab (CNP145) (60%)	1	103	100	95	103	100	95
		Welder/Generator, portable (CNP107) (40%)	1	96	96	91	96	96	91
				113	108	103	113	108	103
Temp CHRN Foundation	Oct 2012 - Jun 2013	Excavator/Loader, Wheeled/Tracked (CNP081) (60%)	1	110	104	99	110	104	99
		Piling, Large Diameter Bored, Grab and Chisel (CNP164) (30%)	1	110	100	90	110	100	90
		Piling Rig and Drilling Rig (30%)	1	109	104	94	109	104	94
		Air Compressor (CNP003) (50%)	1	101	100	90	101	100	90
		Lorry, Crane/Grab (CNP145) (60%)	1	103	100	95	103	100	95
		Poker, Vibratory, Hand Held (CNP170) (30%)	1	108	93	88	108	93	88
		Concrete Lorry Mixer (CNP044) (30%)	1	104	95	90	104	95	90
				116	109	102	116	109	102
Deck for TB1	Jun 2013 - Dec 2013	Crane Mobile (CNP048) (50%)	1	109	98	93	109	98	93
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Poker, Vibratory, Hand Held (CNP170) (30%)	1	108	93	88	108	93	88
		Concrete Lorry Mixer (CNP044) (30%)	1	104	95	90	104	95	90
		Concrete pump (CNP047) (30%)	1	104	102	97	104	102	97
		Welder/Generator, portable (CNP107) (40%)	1	96	96	91	96	96	91
				113	106	100	113	106	100
Existing Bridge Deck Removal	Jan 2014 - Feb 2014	Crane Mobile (CNP048) (30%)	1	107	96	91	107	96	91
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Saw, Concrete (CNP203) (50%)	1	112	112	107	112	112	107
		Hand Held Breaker (CNP025) (70%)	1	109	104	99	109	104	99
				115	113	108	115	113	108
Construction of new western abutment	Jan 2015 - Mar 2015	Excavator/Loader, Wheeled/Tracked (CNP081) (50%)	1	109	103	98	109	103	98
		Piling, Large Diameter Bored, Grab and Chisel (CNP164) (80%)	1	114	104	94	114	104	94
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
		Poker, Vibratory, Hand Held (CNP170) (30%)	1	108	93	88	108	93	88
		Air Compressor (CNP003) (50%)	1	101	100	90	101	100	90
		Concrete Lorry Mixer (CNP044) (30%)	1	104	95	90	104	95	90
		Crane Mobile (CNP048) (60%)	1	110	99	94	110	99	94
				118	109	102	118	109	102
Bridge Reinstatement	Apr 2015 - Jul 2015	Excavator/Loader, Wheeled/Tracked (CNP081) (70%)	1	110	104	99	110	104	99
		Dump Truck (CNP067) (80%)	1	116	103	98	116	103	98
		Power rammer (petrol) (CNP169) (100%)	1	108	108	103	108	108	103
		Asphalt Paver (CNP004) (30%)	1	104	96	91	104	96	91
				118	111	106	118	111	106

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Tunnel - Area C4A				SWL of Single PME			Total SWL		
Worksite S4a				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Demolish Temp CHRN	Jul 2015 - Sept 2015	Excavator/Loader, Wheeled/Tracked (CNP081) (70%)	1	110	104	99	110	104	99
		Dump Truck (CNP067) (80%)	1	116	103	98	116	103	98
		Asphalt Paver (CNP004) (30%)	1	104	96	91	104	96	91
		Roller (CNP185) (30%)	1	103	96	91	103	96	91
		Welder/Generator, portable (CNP107) (40%)	1	96	96	91	96	96	91
				117	108	103	117	108	103
Demolish Existing OB2 abutment	May 2014 - Jun 2014	Crane Mobile (CNP048) (30%)	1	107	96	91	107	96	91
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Saw, Concrete (CNP203) (50%)	1	112	112	107	112	112	107
		Hand Held Breaker (CNP025) (70%)	1	109	104	99	109	104	99
				115	113	108	115	113	108

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Tunnel - Area C4B				SWL of Single PME			Total SWL		
Worksite S4b				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Temporary Cofferdam EWL	May 2014 - Aug 2014	Piling Rig and Drilling Rig (CNP167) (70%)	1	112	107	97	112	107	97
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Grout Mixer (CNP105) (50%)	1	87	87	82	87	87	82
		Grout Pump (CNP106) (40%)	1	101	101	96	101	101	96
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Drill Rig, Rotary Type (Diesel) (CNP072) (50%)	1	107	107	102	107	107	102
		Breaker, Excavator Mounted (Hydraulic) (CNP028) (30%)	1	117	105	100	117	105	100
				119	112	106	119	112	106
Excavation & strutting to EWL formation	Sept 2014 - Oct 2014	Mini Backhoe (CNP082) (70%)	1	92	92	87	92	92	87
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
				112	100	95	112	100	95
Concrete Structures EWL	Nov 2014 - Mar 2015	Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Bar Bender and Cutter (CNP021) (30%)	2	85	85	85	88	88	88
		Concrete Mixer Truck (CNP044) (50%)	2	106	106	101	109	109	104
		Concrete pump (CNP047) (50%)	1	106	104	99	106	104	99
		Poker, Vibratory, Hand Held (CNP170) (50%)	4	110	95	90	116	101	96
				114	109	104	118	111	106
Re-align Slip road OB2A	Sept 2015 - Nov 2015	Excavator/Loader, Wheeled/Tracked (CNP081) (70%)	1	110	104	99	110	104	99
		Dump Truck (CNP067) (80%)	1	116	103	98	116	103	98
		Power rammer (petrol) (CNP169) (100%)	1	108	108	103	108	108	103
		Asphalt Paver (CNP004) (30%)	1	104	96	91	104	96	91
				118	111	106	118	111	106
Divert Slip road Winslow St. underpass	Nov 2015	Excavator/Loader, Wheeled/Tracked (CNP081) (70%)	1	110	104	99	110	104	99
		Dump Truck (CNP067) (80%)	1	116	103	98	116	103	98
		Power rammer (petrol) (CNP169) (100%)	1	108	108	103	108	108	103
		Asphalt Paver (CNP004) (30%)	1	104	96	91	104	96	91
				118	111	106	118	111	106

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Tunnel - Area C5				SWL of Single PME			Total SWL		
Worksite S5				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Temporary Cofferdam EWL before Temp CHRN diversion	Oct 2012 - Nov 2012	Piling Rig and Drilling Rig (CNP167) (70%)	1	112	107	97	112	107	97
		Grout Mixer (CNP105) (50%)	1	87	87	82	87	87	82
		Grout Pump (CNP106) (40%)	1	101	101	96	101	101	96
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Drill Rig, Rotary Type (Diesel) (CNP072) (50%)	1	107	107	102	107	107	102
		Breaker, Excavator Mounted (Hydraulic) (CNP028) (30%)	1	117	105	100	117	105	100
						119	112	106	119
Excavation & strutting to EWL formation	Dec 2014 - Feb 2015	Mini Backhoe (CNP082) (70%)	1	92	92	87	92	92	87
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
				112	100	95	112	100	95
Concrete Structures EWL	Mar 2015 - Apr 2015	Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Bar Bender and Cutter (CNP021) (30%)	2	85	85	85	88	88	88
		Concrete Mixer Truck (CNP044) (50%)	2	106	106	101	109	109	104
		Concrete pump (CNP047) (50%)	1	106	104	99	106	104	99
		Poker, Vibratory, Hand Held (CNP170) (50%)	2	110	95	90	113	98	93
				114	109	104	116	111	106
Temporary Cofferdam EWL (after slip rd re-instate)	Nov 2015 - Jan 2016	Piling Rig and Drilling Rig (CNP167) (70%)	1	112	107	97	112	107	97
		Grout Mixer (CNP105) (50%)	1	87	87	82	87	87	82
		Grout Pump (CNP106) (40%)	1	101	101	96	101	101	96
		Air Compressor (CNP003) (70%)	1	102	101	91	102	101	91
		Drill Rig, Rotary Type (Diesel) (CNP072) (50%)	1	107	107	102	107	107	102
		Breaker, Excavator Mounted (Hydraulic) (CNP028) (30%)	1	117	105	100	117	105	100
						119	112	106	119
Excavation & strutting EWL (after slip rd re-instate)	Feb 2016 - Apr 2016	Mini Backhoe (CNP082) (70%)	1	92	92	87	92	92	87
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
				112	100	95	112	100	95
Concrete Structures EWL (after slip rd re-instate)	May 2016 - Jul 2016	Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Bar Bender and Cutter (CNP021) (30%)	2	85	85	85	88	88	88
		Concrete Mixer Truck (CNP044) (50%)	2	106	106	101	109	109	104
		Concrete pump (CNP047) (50%)	1	106	104	99	106	104	99
		Poker, Vibratory, Hand Held (CNP170) (50%)	4	110	95	90	116	101	96
				114	109	104	118	111	106
Backfill EWL (after slip rd re-instate)	Aug 2016 - Sept 2016	Mini Backhoe (CNP082) (70%)	1	92	92	87	92	92	87
		Hydraulic Crawler Crane (CNP048) (30%)	1	107	96	91	107	96	91
		Roller (CNP185) (30%)	1	103	96	91	103	96	91
		Dump Truck (CNP067) (30%)	2	112	99	94	115	102	97
				113	102	97	116	104	99

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Chatham Road North - Area H1				SWL of Single PME			Total SWL		
Worksite S7				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Sump pit Structure	Jun 2016 - Jul 2016	Crane Mobile (CNP048) (100%)	1	112	101	96	112	101	96
		Bar Bender and Cutter (CNP021) (30%)	2	85	85	85	88	88	88
		Concrete Mixer Truck (CNP044) (30%)	4	104	95	90	110	101	96
		Poker, Vibratory, Hand Held (CNP170) (30%)	2	108	93	88	111	96	91
		Concrete Pumping Lorry (CNP054) (30%)	1	104	104	99	104	104	99
		Air Compressor (CNP003) (30%)	1	99	98	88	99	98	88
		Giken Piler and Power-Pack (50%)	1	98	98	93	98	98	93
		Mini Backhoe (CNP082) (30%)	1	89	89	84	89	89	84
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
				116	108	103	118	109	103
EWL Structure	Jun 2016 - Aug 2016	Crane Mobile (CNP048) (100%)	1	112	101	96	112	101	96
		Bar Bender and Cutter (CNP021) (30%)	2	85	85	85	88	88	88
		Concrete Mixer Truck (CNP044) (30%)	4	104	95	90	110	101	96
		Poker, Vibratory, Hand Held (CNP170) (30%)	2	108	93	88	111	96	91
		Concrete Pumping Lorry (CNP054) (30%)	1	104	104	99	104	104	99
		Air Compressor (CNP003) (30%)	1	99	98	88	99	98	88
		Giken Piler and Power-Pack (50%)	1	98	98	93	98	98	93
				114	107	102	116	108	103