

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

DIH and DHS - Tsz Wan Shan Pedestrian Walkway Package 4				SWL of Single PME			Total SWL		
Worksite S24				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Mobilization and Hoardings	Sept 2013 - Dec 2013	Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Crane Mobile (CNP048) (30%)	1	107	96	91	107	96	91
		Poker, Vibratory, Hand Held (CNP170) (20%)	1	106	91	86	106	91	86
		Mini Backhoe (CNP082) (50%)	1	91	91	86	91	91	86
		Concrete Lorry Mixer (CNP044) (10%)	1	99	90	85	99	90	85
		Welder/generator, portable (CNP107) (100%)	1	100	100	95	100	100	95
		Breaker, Excavator Mounted (Hydraulic) (CNP028) (50%)	1	119	107	102	119	107	102
		Dump Truck with Grab (CNP069) (20%)	1	98	96	91	98	96	91
				120	109	104	120	109	104
Utilities Diversion	Oct 2013 - Jan 2014	Mini Backhoe (CNP082) (50%)	1	91	91	86	91	91	86
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (20%)	1	105	95	90	105	95	90
		Concrete Lorry Mixer (CNP044) (20%)	1	102	93	88	102	93	88
		Poker, Vibratory, Hand Held (CNP170) (20%)	1	106	91	86	106	91	86
		Saw, Circular Wood (CNP201) (50%)	1	105	103	98	105	103	98
					111	104	99	111	104
Ground Investigation	Nov 2014 - Jan 2014	Drill Rig, Rotary Type (Diesel) (CNP072) (100%)	1	110	110	105	110	110	105
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
				113	110	105	113	110	105
TTMs (Po Kong Village Rd)	Jan 2014	Roller (CNP185) (20%)	1	101	94	89	101	94	89
		Excavator/Loader, Wheeled/Tracked (CNP081) (50%)	1	109	103	98	109	103	98
		Concrete Lorry Mixer (CNP044) (20%)	1	102	93	88	102	93	88
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Dump Truck with Grab (CNP069) (20%)	1	98	96	91	98	96	91
		Dump Truck (CNP067) (20%)	1	110	97	92	110	97	92
		Paint Line Marker (Low Pressure) (CNP176) (20%)	1	80	80	80	80	80	80
				115	106	101	115	106	101
Pile Construction	Feb 2014 - Jun 2014	Piling, Large Diameter Bored, Grab and Chisel (CNP164) (80%)	1	114	104	94	114	104	94
		Piling, large dia bored, oscillator (CNP165) (20%)	1	108	98	88	108	98	88
		Crane Mobile (CNP048) (80%)	1	111	100	95	111	100	95
		Excavator/Loader, Wheeled/Tracked (CNP081) (80%)	1	111	105	100	111	105	100
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Concrete Lorry Mixer (CNP044) (20%)	2	102	93	88	105	96	91
		Welder/generator, portable (CNP107) (50%)	1	97	97	92	97	97	92
		Bar Bender and Cutter (CNP021) (50%)	1	87	87	87	87	87	87
		Air Compressor (CNP003) (50%)	1	101	100	90	101	100	90
				118	110	104	118	110	104
Footings Construction	Feb 2014 - Jul 2015	Saw, Chain, Hand-held (CNP202) (30%)	1	109	101	96	109	101	96
		Poker, Vibratory, Hand Held (CNP170) (20%)	1	106	91	86	106	91	86
		Excavator/Loader, Wheeled/Tracked (CNP081) (80%)	1	111	105	100	111	105	100
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Concrete Lorry Mixer (CNP044) (20%)	2	102	93	88	105	96	91
		Bar Bender and Cutter (CNP021) (50%)	1	87	87	87	87	87	87
				115	107	103	115	108	103
TTMs (Fung Tak Rd)	Feb 2014	Roller (CNP185) (20%)	1	101	94	89	101	94	89
		Excavator/Loader, Wheeled/Tracked (CNP081) (50%)	1	109	103	98	109	103	98
		Concrete Lorry Mixer (CNP044) (20%)	1	102	93	88	102	93	88
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Dump Truck with Grab (CNP069) (20%)	1	98	96	91	98	96	91
		Dump Truck (CNP067) (20%)	1	110	97	92	110	97	92
		Paint Line Marker (Low Pressure) (CNP176) (20%)	1	80	80	80	80	80	80
				115	106	101	115	106	101

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DIH and DHS - Tsz Wan Shan Pedestrian Walkway Package 4				SWL of Single PME			Total SWL		
Worksite S24				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Covered Walkway Structure	Mar 2014 - Aug 2015	Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (70%)	1	110	100	95	110	100	95
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
				110	101	96	110	101	96
Pile Construction	Mar 2014 - Jul 2014	Piling, Large Diameter Bored, Grab and Chisel (CNP164) (80%)	1	114	104	94	114	104	94
		Piling, large dia bored, oscillator (CNP165) (20%)	1	108	98	88	108	98	88
		Crane Mobile (CNP048) (80%)	1	111	100	95	111	100	95
		Excavator/Loader, Wheeled/Tracked (CNP081) (80%)	1	111	105	100	111	105	100
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Concrete Lorry Mixer (CNP044) (20%)	2	102	93	88	105	96	91
		Welder/generator, portable (CNP107) (50%)	1	97	97	92	97	97	92
		Bar Bender and Cutter (CNP021) (50%)	1	87	87	87	87	87	87
		Air Compressor (CNP003) (50%)	1	101	100	90	101	100	90
				118	110	104	118	110	104
Footings Construction	Mar 2014 - Jan 2015	Saw, Chain, Hand-held (CNP202) (30%)	1	109	101	96	109	101	96
		Poker, Vibratory, Hand Held (CNP170) (20%)	1	106	91	86	106	91	86
		Excavator/Loader, Wheeled/Tracked (CNP081) (80%)	1	111	105	100	111	105	100
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Concrete Lorry Mixer (CNP044) (20%)	2	102	93	88	105	96	91
		Bar Bender and Cutter (CNP021) (50%)	1	87	87	87	87	87	87
				115	107	103	115	108	103
Covered Walkway Structure	Apr 2014 - Feb 2015	Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (70%)	1	110	100	95	110	100	95
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
				110	101	96	110	101	96
Earthworks	Jun 2014 - Aug 2014	Piling, Vibrating Hammer (CNP172) (80%)	1	114	105	100	114	105	100
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Excavator/Loader, Wheeled/Tracked (CNP081) (80%)	1	111	105	100	111	105	100
		Dump Truck (CNP067) (50%)	1	114	101	96	114	101	96
		Water Pump, Submersible (Electric) (CNP283) (100%)	2	85	85	85	88	88	88
		Welder/generator, portable (CNP107) (100%)	1	100	100	95	100	100	95
				119	110	105	119	110	105
Temporary Works	Jun 2014 - Aug 2014	Crane Mobile (CNP048) (50%)	1	109	98	93	109	98	93
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (80%)	1	111	101	96	111	101	96
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
				113	103	98	113	103	98
Structure	Aug 2014 - Feb 2015	Breaker, Excavator Mounted (Hydraulic) (CNP028) (70%)	1	120	108	103	120	108	103
		Hand-held breaker, mass > 35kg (CNP 026) (30%)	1	109	101	96	109	101	96
		Bar Bender and Cutter (CNP021) (50%)	1	87	87	87	87	87	87
		Saw, Circular Wood (CNP201) (50%)	1	105	103	98	105	103	98
		Poker, Vibratory, Hand Held (CNP170) (20%)	1	106	91	86	106	91	86
		Concrete Lorry Mixer (CNP044) (30%)	2	104	95	90	107	98	93
		Water Pump, Submersible (Electric) (CNP283) (100%)	1	85	85	85	85	85	85
		Welder/generator, portable (CNP107) (100%)	1	100	100	95	100	100	95
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Crane Mobile (CNP048) (50%)	1	109	98	93	109	98	93
		Hand-held breaker, mass > 35kg (CNP 026) (30%)	1	109	101	96	109	101	96
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
		Crane Mobile (CNP048) (30%)	1	107	96	91	107	96	91
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (20%)	1	105	95	90	105	95	90
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
		Crane Mobile (CNP048) (50%)	1	109	98	93	109	98	93
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Mini Backhoe (CNP082) (20%)	1	87	87	82	87	87	82
		Dump Truck with Grab (CNP069) (20%)	1	98	96	91	98	96	91
		Dump Truck (CNP067) (20%)	1	110	97	92	110	97	92
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
Concrete Lorry Mixer (CNP044) (20%)	1	102	93	88	102	93	88		
				123	113	108	123	113	108

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DIH and DHS - Tsz Wan Shan Pedestrian Walkway Package 4				SWL of Single PME			Total SWL		
Worksite S24				SWL of Single PME			Total SWL		
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Structure	Aug 2014 - Oct 2014	Breaker, Excavator Mounted (Hydraulic) (CNP028) (70%)	1	120	108	103	120	108	103
		Hand-held breaker, mass > 35kg (CNP 026) (30%)	1	109	101	96	109	101	96
		Bar Bender and Cutter (CNP021) (50%)	1	87	87	87	87	87	87
		Saw, Circular Wood (CNP201) (50%)	1	105	103	98	105	103	98
		Poker, Vibratory, Hand Held (CNP170) (20%)	1	106	91	86	106	91	86
		Concrete Lorry Mixer (CNP044) (30%)	2	104	95	90	107	98	93
		Water Pump, Submersible (Electric) (CNP283) (100%)	1	85	85	85	85	85	85
		Welder/generator, portable (CNP107) (100%)	1	100	100	95	100	100	95
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Crane Mobile (CNP048) (50%)	1	109	98	93	109	98	93
		Hand-held breaker, mass > 35kg (CNP 026) (30%)	1	109	101	96	109	101	96
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
		Crane Mobile (CNP048) (30%)	1	107	96	91	107	96	91
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (20%)	1	105	95	90	105	95	90
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
		Crane Mobile (CNP048) (50%)	1	109	98	93	109	98	93
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94
		Mini Backhoe (CNP082) (20%)	1	87	87	82	87	87	82
		Dump Truck with Grab (CNP069) (20%)	1	98	96	91	98	96	91
		Dump Truck (CNP067) (20%)	1	110	97	92	110	97	92
Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	1	109	99	94	109	99	94		
Concrete Lorry Mixer (CNP044) (20%)	1	102	93	88	102	93	88		
				123	113	108	123	113	108
Finishes (ABWF, Glazing)	Nov 2014 - Feb 2015	Crane Mobile (CNP048) (30%)	1	107	96	91	107	96	91
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (20%)	1	105	95	90	105	95	90
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
				109	99	94	109	99	94
Lift & E&M Installation	Dec 2014 - Jun 2015	Crane Mobile (CNP048) (100%)	1	112	101	96	112	101	96
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (20%)	1	105	95	90	105	95	90
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
				113	102	97	113	102	97
Lift & E&M Installation	Feb 2015 - Aug 2015	Crane Mobile (CNP048) (100%)	1	112	101	96	112	101	96
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (20%)	1	105	95	90	105	95	90
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
				113	102	97	113	102	97
Finishes (ABWF, Glazing)	Mar 2015 - May 2015	Crane Mobile (CNP048) (30%)	1	107	96	91	107	96	91
		Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (20%)	1	105	95	90	105	95	90
		Drill, Hand-Held (Battery) (CNP071) (50%)	1	86	86	86	86	86	86
				109	99	94	109	99	94
Cumulative Impacts				130	121	115	130	121	116

Note: The works in S24 would not occur at the same time, only a cumulative noise level of all works is selected to predict the construction noise level.
The cumulative impacts are considered for conservative approach.

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

DIH and DHS - football pitch				SWL of Single PME			Total SWL		
Worksite S25									
Activity	Months	PME	Units	Unmitigated	Quiet Plant	Mitigated	Unmitigated	Quiet Plant	Mitigated
Site Clearance for reprovision works	Jun 2012	Excavator/Loader, Wheeled/Tracked (CNP081) (100%)	1	112	106	101	112	106	101
		Dump Truck (CNP067) (50%)	1	114	101	96	114	101	96
				116	107	102	116	107	102
Construction of football pitch, spectator stands and storage room	Jul 2012 - Feb 2013	Welder/generator, portable (CNP107) (100%)	2	100	100	95	103	103	98
		Drill, Hand-Held (Battery) (CNP071) (40%)	2	85	85	85	88	88	88
		Dump Truck (CNP067) (50%)	1	114	101	96	114	101	96
		Mini Backhoe (CNP082) (70%)	1	92	92	87	92	92	87
		Crane Mobile (CNP048) (10%)	1	102	91	86	102	91	86
		Concrete Pumping Lorry (CNP054) (10%)	1	99	99	94	99	99	94
		Concrete Lorry Mixer (CNP044) (10%)	1	99	90	85	99	90	85
		Bar Bender and Cutter (CNP021) (80%)	1	89	89	89	89	89	89
				115	106	101	115	107	102
Building services	Feb 2013 - Mar 2013	Lorry, Crane/Grab (CNP145) (40%)	1	101	98	93	101	98	93
		Welder/generator, portable (CNP107) (100%)	1	100	100	95	100	100	95
		Drill, Hand-Held (Battery) (CNP071) (40%)	1	85	85	85	85	85	85
		Mini Backhoe (CNP082) (20%)	1	87	87	82	87	87	82
				104	102	98	104	102	98
Landscaping and reinstatement	Mar 2013 - Apr 2013	Mini Backhoe (CNP082) (50%)	1	91	91	86	91	91	86
		Dump Truck (CNP067) (30%)	1	112	99	94	112	99	94
				112	99	94	112	99	94

Note: Only maximum SWL is selected to predict the construction noise level.