

PROGRESS STATUS SUMMARY (PROGRESS UPDATED ON 26 NOV 05)

ITEMS	MAJOR ACTIVITIES	CRITICAL ACTIVITIES	STATUS		REMARKS
			BEHIND	COMPLETED	
			BEHIND	COMPLETED	AHEAD
Overall		Yes	7 weeks	50%	
1.1	* All Submission for San Sham Road South Abutment only	Yes	4 weeks	93%	- Delay due to the major amendment of the design after comments received - PSP Submission completed, further comments from TD & EMSD relating to the exact location and technical details - Meeting to be arranged at the end of Nov 05
1.2	* TCSS E&M Provision				
1.3	# Fabrication of Steel Mould for Segment Production	Yes		20%	Steel Mould fabrication in Progress
1.4	# Procurement of Bearings for East, West and North Abutment	Yes		10%	Technical Information Submitted
1.5	* Driven H-Piles in Slip Road A, B and F	Yes	3 weeks	52%	- 11 out of 21 nos Completed - With one additional no commenced instantaneously. Only 3 weeks behind is resisted this month - B7 and B8 Pile will be delayed due to the existing overhead cable not removed on time
1.6	# Pile Caps in Slip Road A, B and F	Yes	1 weeks	9%	Pile Caps A7 & B15 Completed
South Division					
2.1	* Subway Extension			100%	Over 8 weeks
2.2	* Retaining Wall RW C			100%	Over 8 weeks
2.4	* 1350 Dia Drain	Yes	Over 8 weeks	50%	Unsuitable material has been replaced before
2.5	* 1200 Dia Drain			100%	Over 8 weeks
2.6	* 900 Dia Drain near Slipway Extension			20%	Over 8 weeks
2.7	* Hollow Structure B			10%	Over 8 weeks
2.8	* BC3 Box Culvert Extension				3 weeks
North 1 Division					
3.1	* 600 Dia Watermain C/D Ch 160			98%	Substantially Completed
3.2	* Drainage in Open Area	Yes		3%	375 & 300 Drain in Progress
3.3	* BC3 Box Culvert Extension				2 weeks
3.4	* 2m x 1.5m Channel adjacent to existing Re-wall along San Tin Highway	Yes			2 weeks
North 2 Division					
4.1	# Bridge K abutment	Yes	2 weeks	90%	K11 Bearing Shelf in Progress and K2 Bearing Shelf completed
4.2	* Bored Piles in Desk Over Slip Road E (22 nos)	Yes		55%	Total 12 nos completed, Slow Progress Due to Difficult Ground Condition
4.3	* Prebored H-Pile for Soldier Pile Wall (6 nos)	Yes	3 weeks	100%	Due to the delay of Slip Road E Bored Pile
4.4	# Soldier Pile Wall Lacing Panel	Yes	4 weeks	0%	1 no Completed
4.5	* Prebored H-Pile in Bridge K (7 nos)	Yes		22%	Difficulty has been experienced similar to Bridge K Prebored H-Pile
4.6	* Bored Pile in Ecological Barrier (23 nos)	Yes		4%	Temporary Soil Platform Completed
4.7	* Bored Pile P3 under Nullah	Yes		0%	Main component arrival on site
4.8	# Fabrication of Steel Truss in Bridge K	Yes		70%	Over 8 weeks
Others					
5.1	* Tree Transplant in all area (Both Unidentified & Identified)	Yes	Over 8 weeks	65%	160 nos of tree remained to be transplanted
Commencement of New Works Within Coming Three Months					
6.1	Slip Road E Ground Beam				Programme Commencement Date
6.2	South Abutment Modification Stage A				01-Dec-04, will be behind schedule due to the delay of bored piles 09-Dec-05, will be behind schedule due to the major comments of the design and the approval from Hyd (Main Dept)
Remarks					
* Issue last month					
# New Issue marked in yellow colour.					

DESIGN PROGRESS STATUS SUMMARY (PROGRESS UPDATED ON 26 OCT 05)

ITEMS	MAJOR ACTIVITIES	PLANNED COMPLETION DATE (with ICE Approval)	CRITICAL	STATUS (ACTUAL)		REMARKS
				BEHIND	AHEAD	
	Piling:	10-Oct-05				
I.1	All except West abutment	7-2-05			10-Oct-05	On Schedule
I.2	West Abutment					
	Box RC Details:					
2.1	- B15	10-Nov-05			10-Nov-05	
2.2	- B14	16-Nov-05			16-Nov-05	Loading Test Completed, Blinding Completed in B14
2.3	- B11, B12, B13	16-Nov-05			16-Nov-05	
2.4	- B9, B10	7-Dec-05	Yes			Forecast Commencement on Site Date 10 Dec 05
2.5	- B6, B7, B8	7-Dec-05	Yes			Forecast Commencement on Site Date 15 Dec 05
2.6	- B1, B2, B3, B4	16-Nov-05			16-Nov-05	Forecast Commencement on Site Date 15 Dec 05
2.7	- EA, B5	30-Nov-05	Yes			Piling Completed on Site, Critical
2.8	- WA, A1	15-Jan-06				On Schedule
2.9	- A3 to A4	10-Nov-05			10-Nov-05	Blinding Completed in A3
2.10	- A2	30-Nov-05				Forecast Commencement on Site Date 29 Dec 05
2.11	- F2	4-Oct-05			4-Oct-05	Pile Cap Completed on Site
2.12	- F3	1-Dec-05				Forecast Commencement on Site Date 15 Jan 06
	Box RC Details:					
3.1	- B14, B15	30-Nov-05				On Schedule
3.2	- B11, B12, B13	30-Nov-05				On Schedule
3.3	- B9, B10	15-Dec-05				On Schedule
3.4	- B6, B7, B8	15-Dec-05				On Schedule
3.5	- B3, B4, B5	30-Nov-05				On Schedule
3.6	- EA, B1, B2	30-Nov-05				On Schedule
3.7	- WA, A1	15-Dec-05				On Schedule
3.8	- A2 to A4	30-Nov-05				On Schedule
3.9	- F2	24-Oct-05				On Schedule
3.10	- F3	15-Dec-05			24-Oct-05	On Schedule
	Pier Head Segment					
4.1	- B14, B15	30-Nov-05				On Schedule
4.2	- B11, B12, B13	30-Nov-05				On Schedule
4.3	- B9, B10	30-Nov-05				On Schedule
4.4	- B6, B7, B8	30-Nov-05				On Schedule
4.5	- B3, B4, B5	30-Nov-05				On Schedule
4.6	- EA, B1, B2	30-Nov-05				On Schedule
4.7	- WA, A1	30-Nov-05				On Schedule
4.8	- A2 to A4	30-Nov-05				On Schedule
4.9	- F3	30-Nov-05				On Schedule
	Span Segment Details: RC & Piers/Trusses/Abutment					
5.1	- B14, B15	20-Nov-05				On Schedule
5.2	- B11, B12, B13	20-Nov-05				On Schedule
5.3	- B9, B10	20-Nov-05				On Schedule
5.4	- B6, B7, B8	20-Nov-05				On Schedule
5.5	- B3, B4, B5	20-Nov-05				On Schedule
5.6	- EA, B1	21-Jan-06				On Schedule
5.7	- WA, A1	21-Jan-06				On Schedule
5.8	- A2 to A4	15-Dec-05				On Schedule
5.9	- F3	30-Dec-05				On Schedule

Activity ID	Activity Name	Org	Start	End	Lead	2006																														
						OCT	NOV	DEC	JAN		FEB																									
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

GENERAL

SECTION I OF THE WORKS (426 DAYS)

TECHNICAL SUBMITTAL FOR CONTRACTOR'S DESIGN PACKAGE

EAM Provision of the TCS

Activity ID	Activity Name	Org	Start	End	Lead
CD1304	General Circulation for Comment	12	24/09/05	08/10/05	4
CD1312	Revised Per Comment	8	10/10/05	17/10/05	4
CD1316	Submit to Engineer	0		17/10/05	4
CD1320	Engineer to Review/Comment	12	18/10/05	31/10/05	4
CD1324	Approval in Principle from Engineer	0		31/10/05	4
CD1328	Prepare Submission for FSP	24	10/10/05	07/11/05	4
CD1332	General Circulation for Comment	12	01/11/05	14/11/05	4
CD1340	Revised Per Comment	8	15/11/05	21/11/05	4
CD1344	Submit to Engineer	0		21/11/05	4
CD1348	Engineer to Review/Comment	12	22/11/05	05/12/05	4
CD1352	Approval in Principle from Engineer	0		05/12/05	4

DDA Noise Barrier

Activity ID	Activity Name	Org	Start	End	Lead
CD1400	Prepare Submission	51	05/08/05	05/11/05	0
CD1410	General Circulation for Comment	18	24/10/05	12/11/05	0
CD1430	Submit to ICE	18	31/10/05	19/11/05	0
CD1440	Revised Per Comment	12	21/11/05	03/12/05	0
CD1450	Submit to Engineer	0		03/12/05	0
CD1460	Engineer to Review/Comment	12	05/12/05	17/12/05	0
CD1470	DDA Approval from Engineer	0		17/12/05	0

DDA San. Sewer Road Bridge South Abutment

Activity ID	Activity Name	Org	Start	End	Lead
CD1510	General Circulation For Comment	18	09/09/05	29/09/05	7
CD153b	Submit to ICE	18	15/09/05	05/09/06	7
CD1540	Revised Per Comment	12	06/09/05	20/09/05	7
CD1550	Submit to Engineer	0		20/09/05	7
CD1560	Engineer To Review/Comment	12	21/09/05	05/10/05	7
CD1570	DDA Approval from Engineer	0		05/10/05	7

NORTH 1 DIVISION, TTM-Stage 1

SECTION II OF THE WORKS (625 DAYS)

UTILITIES & ROADWORKS

Roadwork and EAM Related

Activity ID	Activity Name	Org	Start	End	Lead
S2.0140	Laying of Road Base & Test	6	22/09/05	25/09/05	1
S2.0150	Laying of Base Course & Test	6	29/09/05	06/10/05	1
S2.0160	Laying of Wearing Course & Test	3	07/10/05	10/10/05	1
S2.0170	Laying of Road Markings	2	12/10/05	13/10/05	1

NORTH 1 DIVISION, TTM-Stage 2

SECTION III OF THE WORKS (625 DAYS)

PRESERVATION & PROTECTION OF EXISTING TREES

Activity ID	Activity Name	Org	Start	End	Lead
P03745	Tree Felling & Tree Transplanting	5	13/06/05	18/06/05	0

UTILITIES & ROADWORKS

Drainage System - Watermain

Activity ID	Activity Name	Org	Start	End	Lead
S2.0250	Temporary Diversion of Exisitg Drainage System	6	19/08/05	25/08/05	0
S2.0260	Excavate 600dia Watermain Pipe Trench	7	30/08/05	06/09/05	0
S2.0270	Material Ordering & Delivery for Watermain	52	08/07/05	06/09/05	0
S2.0280	Lay/Backfill 600 dia Watermain CH0-CH100 + FH2	17	07/09/05	27/09/05	0

NORTH 1 DIVISION, TTM-Stage 3

TEMPORARY TRAFFIC MANAGEMENT

TEMPORARY TRAFFIC MANAGEMENT

Scheme (TTM-3)

Activity ID	Activity Name	Org	Start	End	Lead
S2.0480	TTM Implementation (North 1, TTM-Stage 3)	91*	15/10/05	02/02/06	0

SECTION V OF THE WORKS (625 DAYS)

ELEVATED SLIP ROAD B

H-Pile Construction

Activity ID	Activity Name	Org	Start	End	Lead
S5.0020	Drive H-Piles, B13	6	22/11/05	28/11/05	0
S5.0040	File Cap B13	15	10/12/05	29/12/05	0
S5.0050	Piers B13	9	30/12/05	05/01/06	0

NORTH 1 DIVISION, TTM-Stage 4

TEMPORARY TRAFFIC MANAGEMENT

TEMPORARY TRAFFIC MANAGEMENT

Scheme (TTM-4)

Activity ID	Activity Name	Org	Start	End	Lead
S2.0640	TTM Implementation (North 1, TTM-Stage 4)	93*	03/02/06	25/05/06	0

SECTION II OF THE WORKS (625 DAYS)

UTILITIES & ROADWORKS

Drainage System - Watermain

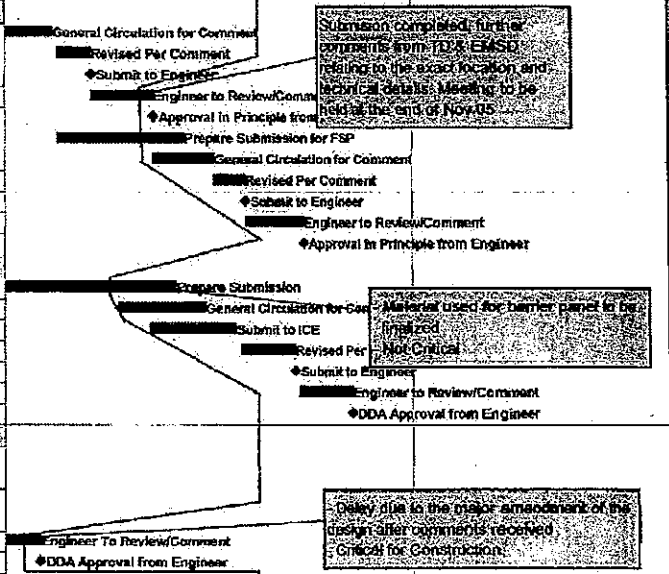
Activity ID	Activity Name	Org	Start	End	Lead
S2.0680	Expose Exisitg 600dia Watermain @CH0-180 &	4	03/02/06	07/02/06	0
S2.0670	Excavation of 600dia Watermain CH160-230	8	03/02/06	11/02/06	1
S2.0690	Laying/Backfilling of 600dia Watermain CH160-230	7	13/02/06	20/02/06	1

SECTION V OF THE WORKS (625 DAYS)

ELEVATED SLIP ROAD B

H-Pile Construction

Activity ID	Activity Name	Org	Start	End	Lead
S3.0130	Drive H-Piles, B12	12	15/02/06	28/02/06	1



Start Date	14/04/05
Finish Date	12/01/06
Issue Date	14/04/05
Run Date	17/11/05 16:50

Legend	Easy Bar
	Progress Bar
	Critical Activity

WP02 CONTRACT NO. HY/2004/05 Sheet 1 of 5
IMPROVEMENTS TO SAN TIN INTERCHANGE
 Three Months Rolling Programme (WP02)
 2005-2006
 2006
 2006

中環地產有限公司
 CHINA COMMERCIAL REAL ESTATE CO., LTD.

Code	Issue	Count	Amount
00000	Issue	10102	276
00005	Issue	90002	236
00001	Issue	90002	236

2005-2006
 2006
 2006

NORTH 1 DIVISION, TTM-Stage 8

SECTION II OF THE WORKS (62.5 DAYS)

EXTENSION OF EXISTING BOX CULVERT B/C2

Item No.	Description	Quantity	Start Date	End Date	Days
S2.1550	Demolition of Box Culvert Wing Wall	24	01/11/05*	28/11/05	0
S2.1550	Remove Debris	8	29/11/05	05/12/05	0
S2.1570	Drilling and Grouting for Starter Bar	6	06/12/05	12/12/05	0
S2.1580	Box Culvert - Base Slab (Left)	14	13/12/05	30/12/05	0
S2.1582	Box Culvert - Wall & Top Slab (Left)	10	31/12/05	11/01/06	0
S2.1584	Box Culvert - Base Slab (Right)	13	12/01/06	26/01/06	0
S2.1590	Box Culvert - Wall & Top Slab (Right)	10	27/01/06	09/02/06	0
S2.1600	Box Culvert Wing Wall - Base Slab (Left)	16	10/02/06	28/02/06	0

SECTION IV OF THE WORKS (62.5 DAYS)

ELEVATED SUP ROAD 'A'

H-Pile Construction					
S4.0370	Drive H-Piles, A4	6	18/08/05	22/08/05	0
S4.0390	Drive H-Piles, A3	8	30/08/05	07/09/05	0
S4.0410	Drive H-Piles, A2	8	15/09/05	24/09/05	0
Pile Cap Construction					
S4.0430	Pile Cap A4	24	09/10/05	03/11/05	0
S4.0440	Pile Cap A3	24	19/10/05	15/11/05	1
S4.0450	Pile Cap A2	24	31/10/05	26/11/05	1
Pier Construction					
S4.0480	Piers A4	18	07/11/05	26/11/05	0
S4.0470	Piers A3	18	22/11/05	12/12/05	0
S4.0480	Piers A2	18	07/12/05	29/12/05	0
Deck Construction					
S4.0490	Erect Formwork Cast-in-Situ Viaduct A4 to A2	15	10/02/06	27/02/06	0
S4.0500	Erect Formwork Cast-in-Situ Viaduct A4 to A2	15	28/02/06	16/03/06	0

ELEVATED SUP ROAD 'B' AIR SPACE STENGS

Bored Pile Construction					
S4.0580	Bored Piles, F2	20	04/08/05	26/08/05	0
Pile Cap Construction					
S4.0590	Pile Cap F2	24	21/08/05	20/10/05	0
Pier Construction					
S4.0600	Piers F2	18	21/10/05	10/11/05	0
S4.0630	In situ Pier Head on Pier F2	25	09/12/05	10/01/06	0

SECTION V OF THE WORKS (62.5 DAYS)

ELEVATED SUP ROAD 'B'

H-Pile Construction					
S5.0230	Drive H-Piles, B15	6	23/08/05	29/08/05	0
S5.0240	Drive H-Piles, B14	6	08/09/05	14/09/05	0
Pile Cap Construction					
S5.0270	Pile Cap B15	24	19/11/05	16/12/05	0
S5.0280	Pile Cap B14	23	17/12/05	14/01/06	0
Pier Construction					
S5.0290	Piers B15	18	17/12/05	09/01/06	1
S5.0315	Backfilling for Piers B15	4	14/01/06	14/01/06	0

NORTH 1 DIVISION, TTM-Stage 8a

SECTION I OF THE WORKS (62.5 DAYS)

AT-GRADE SUP ROAD 'D' RETAINING WALL 'B'

Drainage System - Watermain					
S2.1710	Excavate, Lay & Backfill 600 dia @ CH275-367	16	03/02/06	21/02/06	0

NORTH 1 DIVISION, TTM-Stage 8b

SECTION I OF THE WORKS (62.5 DAYS)

UTILITIES & ROADWORKS

Drainage System - Watermain					
S2.1780	Testing & Swabbing of 600dia CH160-CH367 Watermain	10	22/02/06	04/03/06	0

NORTH 2 DIVISION, TTM-Stage 1 & 2

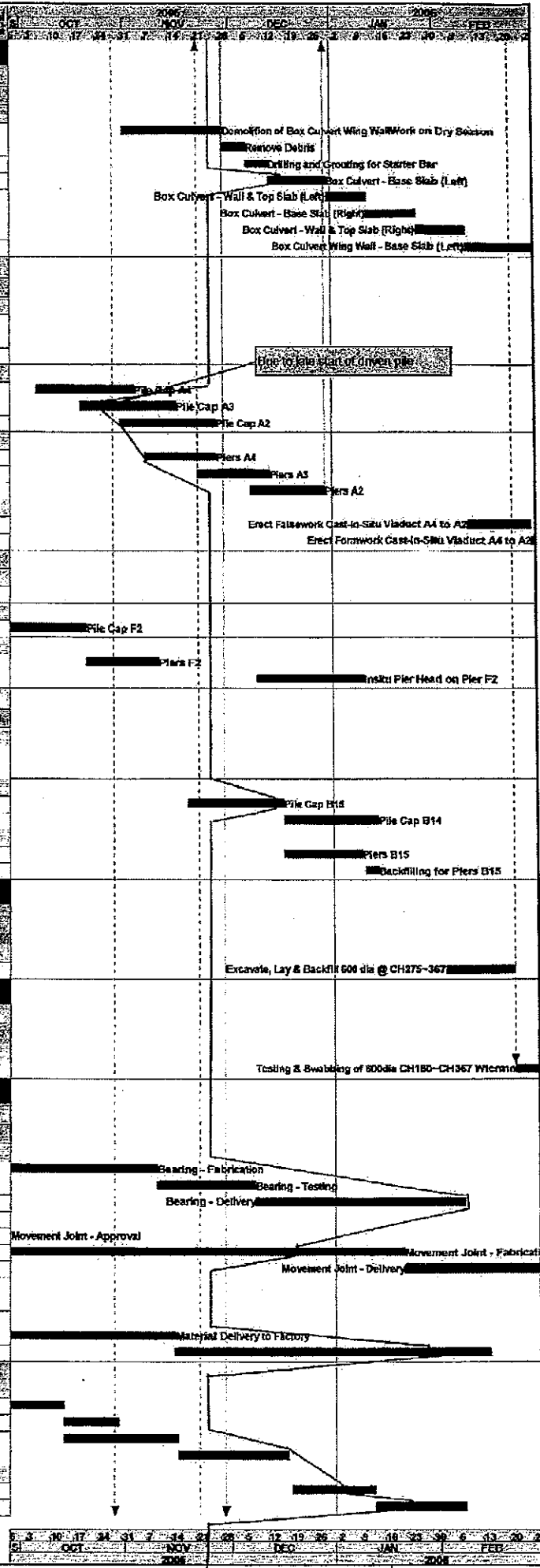
SECTION I OF THE WORKS (42.5 DAYS)

STEELWORK FABRICATION & PROCUREMENT/BRIDGE K

S1.0140	Bearing - Fabrication	90	12/08/05	09/11/05	0
S1.0180	Bearing - Testing	28	10/11/05	07/12/05	0
S1.0160	Bearing - Delivery	82	08/12/05	07/02/06	0
S1.0170	Movement Joint - Proposal	70	08/08/05	16/08/05	0
S1.0180	Movement Joint - Approval	42	17/08/05	27/09/05	0
S1.0190	Movement Joint - Fabrication	116	28/09/05	21/01/06	0
S1.0200	Movement Joint - Delivery	80	22/10/05	22/03/06	0
S1.0210	Shop Drawing - Preparation	45	21/08/05*	12/09/05	0
S1.0220	Shop Drawing - Submission & Approval	32	18/08/05	20/09/05	0
S1.0230	Material Procurement	92	21/08/05	20/09/05	0
S1.0240	Material Delivery to Factory	55	21/09/05	14/11/05	0
S1.0260	Steel Deck - Fabrication	75	15/11/05	14/02/06	0

STEEL DECK CONSTRUCTION/BRIDGE K

Pile Cap Construction					
S1.0396	Abutment K1 - Temp Works	14	26/09/05	13/10/05	0
S1.0398	Abutment K2 - Temp Works	14	14/10/05	29/10/05	0
S1.0400	Abutment K1 - Pile Cap	28	14/10/05	15/11/05	0
S1.0410	Abutment K2 - Pile Cap	28	16/11/05	17/12/05	0
S1.0420	Abutment K1 - Abutment Wall	20	19/12/05	12/01/06	0
S1.0430	Abutment K2 - Abutment Wall	20	13/01/06	07/02/06	0



Activity ID	Activity Description	Orig. Dur.	Est. Start	Est. Finish	Total Float	Start	Finish
S1.0440	Bearing Installation	6	08/02/06	14/02/06	0		
S1.0450	Bridge K Erection and Welding Works	28	15/02/06	16/03/06	0		
RC DECK CONSTRUCTION / BRIDGE K							
Pre-Bored H-Pile Construction							
S1.0530	Pre-bored H-Pile Installation, 650dia x 8m,	63	13/10/05	24/12/05	0		
S1.0535	Pre-bored H-Pile Testing	30	28/12/05	02/02/06	0		
S1.0540	RC Deck - Tie Beam & Slab	60	03/02/06	14/04/06	0		
SOLDIER PILE WALL							
Pre-Bored H-Pile Construction							
S1.0730	Pre-bored H-Pile of Soldier-Piles (70nos)	35	15/09/05	28/10/05	0		
S1.0740	Capping Beam	25	27/10/05	25/11/05	0		
S1.0750	Lagging Panels (1st 1.5m)	10	15/11/05	25/11/05	0		
S1.0760	Lagging Panels (2nd 1.5m)	10	28/11/05	07/12/05	0		
S1.0770	Lagging Panels (3rd 1.5m)	10	08/12/05	18/12/05	0		
S1.0780	Lagging Panels (4th 1.5m)	10	20/12/05	02/01/06	0		
S1.0790	Excavation to the Proposal Level	4	03/01/06	05/01/06	0		
DECK OVER STRUCTURE OF SUB ROAD E							
Bored Pile Construction							
S1.0840	Bored Piles, 22 nr.	69	15/09/05	31/12/05	0		
Ground Beam Construction							
S1.0850	Ground Beam E1	15	01/12/05	17/12/05	0		
S1.0860	Ground Beam E2	15	08/12/05	22/12/05	0		
S1.0870	Ground Beam E3	15	19/12/05	06/01/06	0		
S1.0880	Ground Beam E4	15	23/12/05	11/01/06	0		
S1.0890	Ground Beam E5	15	30/12/05	16/01/06	0		
S1.0900	Ground Beam E6	15	12/01/06	28/01/06	0		
S1.0910	Ground Beam E7	15	17/01/06	04/02/06	0		
S1.0920	Ground Beam E8	12	21/01/06	08/02/06	0		
S1.0930	Ground Beam E9	12	26/01/06	10/02/06	0		
S1.0940	Ground Beam E10	12	02/02/06	15/02/06	0		
S1.0950	Ground Beam E11	12	07/02/06	20/02/06	0		
S1.0960	Ground Beam E12	12	11/02/06	24/02/06	0		
Pier Construction							
S1.0970	Piers E1	13	04/01/06	18/01/06	0		
S1.0980	Piers E2	15	09/01/06	25/01/06	2		
S1.0990	Piers E3	15	13/01/06	01/02/06	2		
S1.1000	Piers E4	15	18/01/06	06/02/06	2		
S1.1010	Piers E5	16	23/01/06	10/02/06	2		
S1.1020	Piers E6	12	01/02/06	14/02/06	0		
S1.1030	Piers E7	12	06/02/06	18/02/06	2		
S1.1040	Piers E8	12	09/02/06	22/02/06	2		
S1.1050	Piers E9	12	13/02/06	25/02/06	2		
Deck Construction							
S1.1090	Instal Deck with Curing (ch135 to ch195)	58	18/01/06	27/03/06	0		
S1.1100	Instal Deck with Curing (ch195 to ch255)	56	15/02/06	21/04/06	0		
SECTION II OF THE WORKS (625 DAYS)							
ECOLOGICAL BARRIER WALLS							
S2.2150	Pre-bored H-Pile Installation	34	02/02/06	06/04/06	3		
SECTION IV OF THE WORKS (625 DAYS)							
ELEVATED SUB ROAD P/S AIR SPACE STEMDC							
Bored Pile Construction							
S4.0720	Bored Piles F3	36	25/11/05	07/01/06	1		
Pile Cap Construction							
S4.0790	Construct Retaining Wall	50	09/01/06	21/03/06	1		
SECTION VII(A) OF THE WORKS (261 DAYS)							
CONST. 2-DN150 WATERMANS & DRAINAGE @ S.S. RD							
Roadworks and E&M Related							
STA.040	Lay Temp. Paving @ S.S. road	7	14/10/05	21/10/05	1		
NORTH 2 DIVISION TTM-Stage 3							
SECTION VII(A) OF THE WORKS (261 DAYS)							
CONST. 2-DN150 WATERMANS & DRAINAGE @ S.S. RD							
Drainage System & Watermain							
STA.110	Lay 2x150 Dia Watermains crossing S.S. rd Stg 2	14	22/10/05	07/11/05	1		
Roadworks and E&M Related							
STA.130	Lay Paving @ 2x150 Trenches	6	24/11/05	30/11/05	1		
NORTH 2 DIVISION TTM-Stage 4							
TEMPORARY TRAFFIC MANAGEMENT							
TEMPORARY TRAFFIC MANAGEMENT							
Scheme (TTM-9)							
STA.180	TTM Implementation (North 2, TTM-Stage 4)	34	01/12/05	11/01/06	1		
SECTION VII(A) OF THE WORKS (261 DAYS)							
CONST. 2-DN150 WATERMANS & DRAINAGE @ S.S. RD							
Drainage System & Watermain							
STA.200	Lay 2x150 Dia Watermains crossing S.S. rd Stg 3	14	01/12/05	16/12/05	1		
Roadworks and E&M Related							
STA.230	Lay Paving @ 2x150 Trenches	6	05/01/06	11/01/06	1		

NORTH 2 DIVISION TTM-Stage A

TEMPORARY TRAFFIC MANAGEMENT

TEMPORARY TRAFFIC MANAGEMENT

Scheme (TTM-A)	Start	End	Days
S2.2870 TTM Implementation (North 2, TTM-Stage A)	09/12/05	13/02/06	1

SECTION II OF THE WORKS (625 DAYS)

MOD. OF SOUTH ABUTMENT OF EXIST. SAN SHAN RD.

STAGE A	Description	Start	End	Days
S2.2890	Demolish Central Barrier & Paving	09/12/05	15/12/05	1
S2.2900	Remove Traffic Signs & P. Light	16/12/05	20/12/05	1
S2.2910	S. Abut. AIP, DDA, Method Statement / Approval	27/09/05	28/10/05	1
S2.2920	S. Abut. Material Ordering & Delivery	29/10/05	20/12/05	1
S2.2930	Install Mini-piles & Temp Sheet Piles	21/12/05	20/01/06	1
S2.2933	Install Capping Beam & Tie Slab	21/01/06	10/02/06	1

SOUTH DIVISION TTM-Stage 1 & 2

SECTION II OF THE WORKS (335 DAYS)

SUBWAY EXTENSION

Item	Description	Start	End	Days
S3.0150	Bay 1 - Base Slab (1st Half)	01/11/05	12/11/05	0
S3.0155	Bay 2 - Base Slab (1st Half)	14/11/05	28/11/05	0
S3.0157	Diversion of Pedestrian to Bay 1	25/11/05	25/11/05	0
S3.0159	Bay 1 - Base Slab (2nd Half)	29/11/05	08/12/05	0
S3.0160	Bay 2 - Base Slab (2nd Half)	09/12/05	21/12/05	0
S3.0162	Erect Temp Falsework with Pedestrian Opening	22/12/05	31/12/05	0
S3.0190	Bay 1 - Wall Stem & Top Slab	02/01/06	14/01/06	0
S3.0200	Bay 2 - Wall Stem & Top Slab	09/01/06	21/01/06	0
S3.0202	Base Slab of Wing Walls on both Sides	03/01/06	20/01/06	1
S3.0204	Wall Stem of Wing Walls on both Sides	23/01/06	04/02/06	0
S3.0210	Backfilling Works	06/02/06	11/02/06	0

BOX CULVERT EXTENSION (EC)

Item	Description	Start	End	Days
S3.0235	B Cul BC3-Demolition of Box Culvert Ring Wall	22/11/05	30/11/05	0
S3.0240	Box Culvert BC3 - Remove Debris	01/12/05	02/12/05	0
S3.0250	B Cul BC3-Drilling and Grouting for Starter Bar	03/12/05	07/12/05	0
S3.0260	Box Culvert BC3 - Base Slab	08/12/05	16/12/05	0
S3.0270	Box Culvert BC3 - Wall & Top Slab	17/12/05	02/01/06	0
S3.0280	Box Culvert BC3 Wing Wall - Base Slab (Left)	03/01/06	11/01/06	0
S3.0290	Box Culvert BC3 Wing Wall - Base Slab (Right)	12/01/06	20/01/06	0
S3.0300	Box Culvert BC3 Wing Wall - Wall Stem (Left)	12/01/06	20/01/06	0
S3.0310	Box Culvert BC3 Wing Wall - Wall Stem (Right)	21/01/06	01/02/06	0
S3.0315	Const CP26+1350dia/M10.2+600M9.1	02/02/06	06/03/06	0

WIDENING WORKS AT JWB EXISTING HIGHWAY

Item	Description	Start	End	Days
S3.0690	450 @ MH61-62, 900 - CP30 &	13/02/06	25/02/06	0
S3.0690	Construct MH61/MH62/CP30/DP7.0 & Headwall E	27/02/06	11/03/06	0

SECTION V OF THE WORKS (625 DAYS)

ELEVATED SLIP ROAD B

Item	Description	Start	End	Days
S5.0530	Drive H-Piles, B1	01/09/05	17/09/05	2
S5.0550	Drive H-Piles, B2	20/09/05	07/10/05	2
S5.0570	Drive H-Piles, East Abutment	29/11/05	21/12/05	0
S5.0590	Pile Cap B1	17/01/06	18/02/06	1
S5.0600	Pile Cap B2	29/01/06	29/02/06	5
S5.0610	Piers B1	17/02/06	09/03/06	1
S5.0700	Procurement of Bearing	22/10/05	28/04/06	1
S5.0710	East Abutment Base Slab	05/01/06	09/02/06	0
S5.0720	East Abutment Wall	07/02/06	24/04/06	1

HOLLOW STRUCTURE OF SLIP ROAD B

Item	Description	Start	End	Days
S5.0769	1350dia @ MH51 - MH52, 1200dia - CP26	10/09/05	22/09/05	0
S5.0790	Construct MH52	23/09/05	30/09/05	0
S5.0840	Excavation to Formation	20/10/05	15/03/06	0
S5.0850	Base Slab (bay 1)	18/03/06	30/03/06	0
S5.0852	Base Slab (bay 2)	31/03/06	15/04/06	0

SOUTH DIVISION TTM-Stage 3 & 4

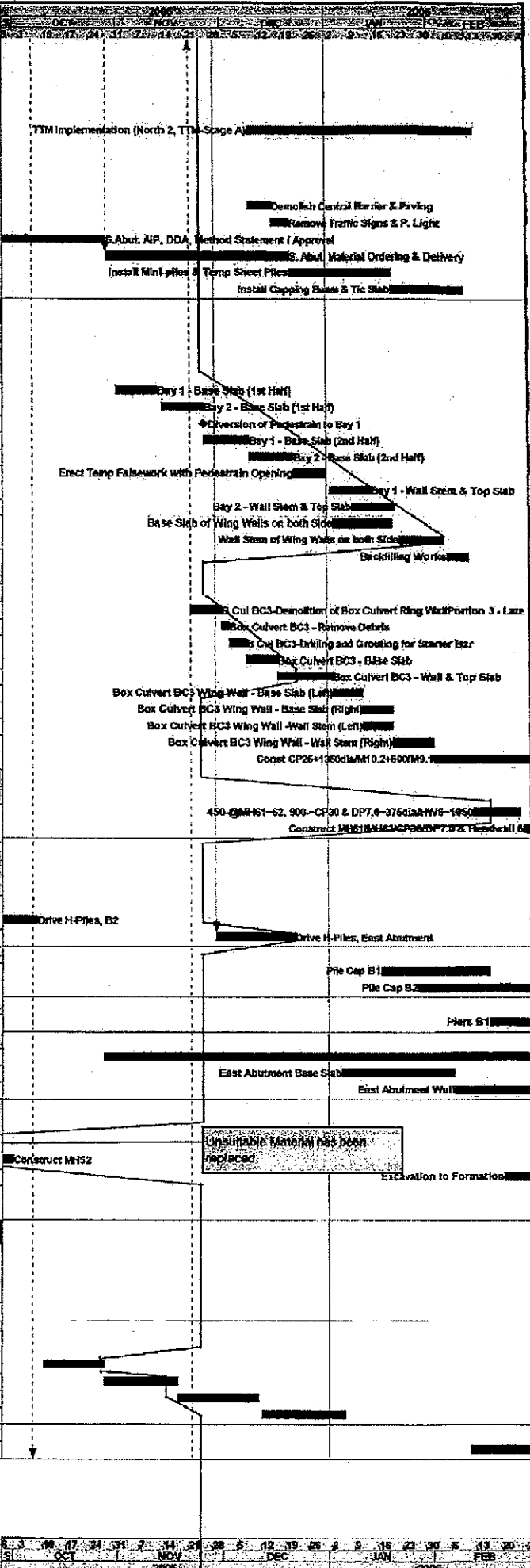
SECTION V OF THE WORKS (625 DAYS)

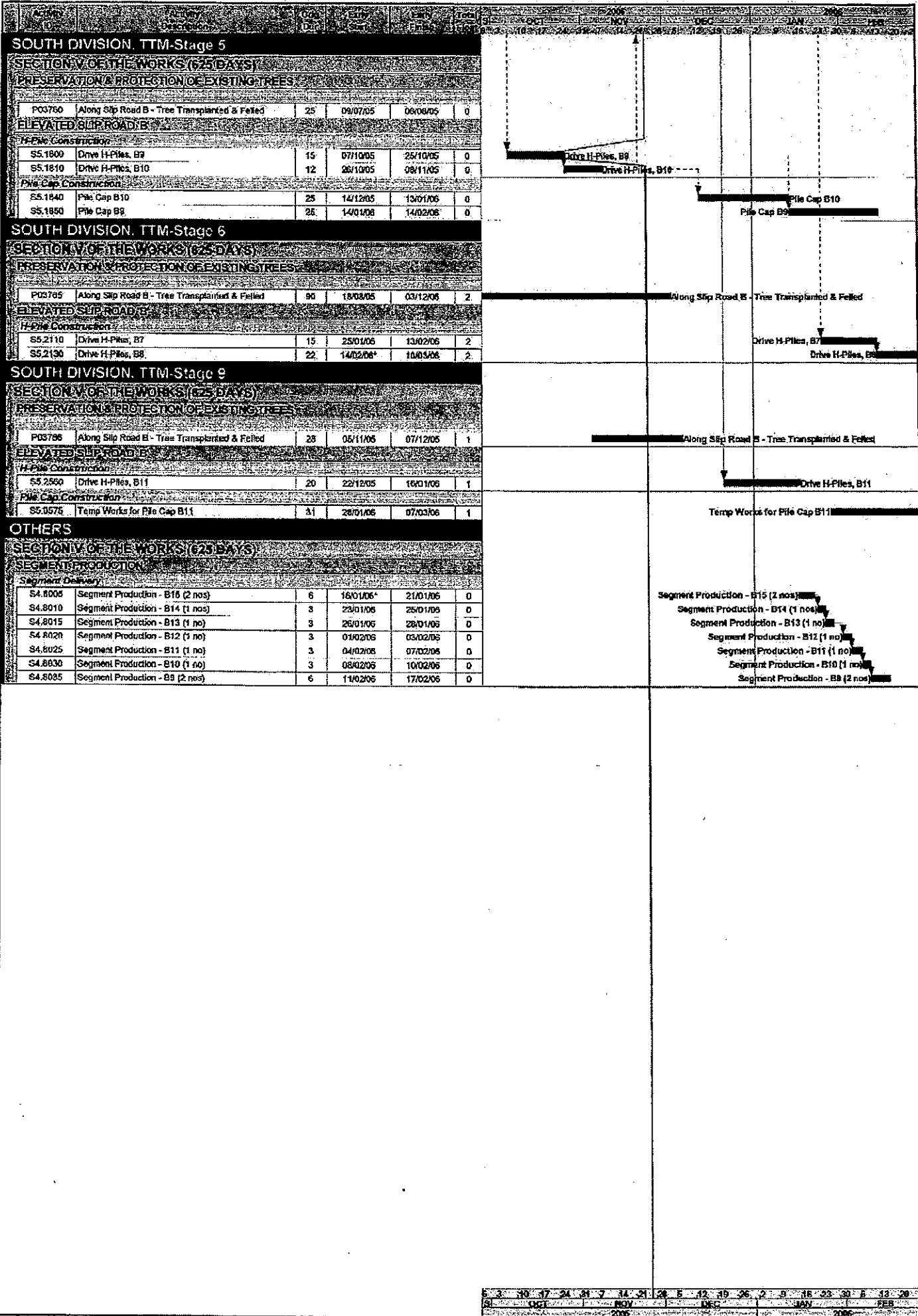
PRESERVATION & PROTECTION OF EXISTING TREES

Item	Description	Start	End	Days
P03750	Along Slip Road B - Tree Transplanted & Felled	16/07/05	15/08/05	1

ELEVATED SLIP ROAD B

Item	Description	Start	End	Days
S5.1110	Drive H-Piles, B3	10/10/05	27/10/05	1
S5.1130	Drive H-Piles, B4	28/10/05	17/11/05	1
S5.1150	Drive H-Piles, B5	19/11/05	10/12/05	1
S5.1170	Drive H-Piles, B6	12/12/05	05/01/06	1
S5.1190	Pile Cap B3	11/02/06	03/03/06	0





Improvements to San Tin Interchange
Environmental Monitoring and Audit

November 2005

EIA Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
				Status	Remarks
3.43 – 3.46	Noise Control	Use of quiet powered mechanical equipment (PME). Quiet plant is defined as a PME having actual sound power level lower than the value specified in the Technical Memorandum on Noise from Construction Work other than Percussive Piling. (Examples of quiet PME taken from the BS5228: Part1: 1997 are given in Table 3.7 of the EIA Report).	During Construction	√	
3.47 – 3.49	Noise Control	Adoption of movable noise barrier of 3 to 5 m high (depending on the size of the plant that requires to be screened). The length of the barriers should be at least five times greater than its height. The barrier shall be located within 10 metres of the stationary plant or mobile plant such that the line of sight to the NSR is blocked by the barrier.	During Construction	√	3m movable noise barriers have been erected next to the percussive piling activity at the South Division
3.53	Noise Control	<u>For Existing NSRs</u> A 1.5m high reflective plain barrier of about 121m long erected along the western edge of Slip Road A (refer to Figure 3.6 of the EIA Report).	During Operation	N/A	
3.53	Noise Control	<u>For Future/Planned NSRs</u> A 2m high reflective plain barrier of about 303m be erected along Slip Road F(refer to Figure 3.6 of the EIA Report) (implementation of the barrier is only required before occupation of the planned residential premises).	During Operation	N/A	
4.41	Air Quality Control	Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation shall be incorporated to control dust emission. Notice shall be given to the authority prior to commencement of works.	During Construction	√	
5.1	Water Quality Control	Under the proposed design, there shall not be supports for the slip roads and Bridge A located within the San Tin River nor the San Tin Eastern Main Drainage Channel.	During Design Stage	√	
5.25	Water Quality Control	A Drainage Management Plan (DMP) shall be prepared by the Contractor and submitted to EPD within two weeks of the award of contract and before the commencement of any site formation works or earthworks on-site. The DMP shall detail the procedures for control of construction site runoff. The DMP shall at least cover the construction works areas for slip roads E and F and for Bridge A, and the local widening of the existing Castle Peak Road. No site run-off nor drainage discharge shall enter fishponds. The DMP shall follow the site practices given in ProPECC PN 1/94 Construction Site Drainagewith regard to the handling and disposal of construction site discharges.	During Construction	√	
5.31	Water Quality Control	A water quality EM&A programme is recommended during the site clearance and formation of the at-grade road sections for slip roads E and F and for Bridge A, and the local widening of the existing Castle Peak Road.	During Construction	√	
6.21 - 6.23	Waste Management Implication	<u>Waste Management Plan</u> The Contractor should incorporate the recommendations in the EIA Report into a comprehensive on-site Waste Management Plan (WMP) for the construction of the Project. The WMP shall be prepared in accordance with ETWB TC No. 15/2003 and submitted to the Engineer for approval. All mitigation measures arising from the approved WMP shall be fully implemented by the Contractor. In order to monitor the disposal of C&D materials at public filling facilities and to control fly tipping, the Trip-ticket System in accordance with ETWB TC No. 21/2002 shall be included as one of the contractual requirements. Disposal of C&D material shall only be permitted at the public filling facility designated by CED.	During Construction	√	
6.25	Waste Management Implication	<u>General Refuse</u> General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material.	During Construction	√	
6.28	Waste Management Implication	<u>Chemical Waste</u> If chemical wastes are produced at the construction site, the Contractor shall register with the EPD as a Chemical Waste Producer and follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes shall be used, and incompatible chemicals shall be stored separately. Appropriate labels shall be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosives, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes generated at the Chemical Waste Treatment Centre at Tsing Yi, or other licenced facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	During Construction	√	Contractor registered as chemical waste producer.

Improvements to San Tin Interchange
Environmental Monitoring and Audit

November 2005

EIA Ref.	Environmental Aspect	Mitigation Measures	Timing	Compliance Status: √ = compliant; x = non-compliant; N/A = not applicable	
				Status	Remarks
7.91	Ecological Requirement	Where the slip road runs adjacent to the San Tin EMDC wetlands, a roadside barrier wall (2m high) shall be constructed to minimize operation phase noise disturbance to the wetlands. Furthermore, a 2m buffer strip shall be planted with trees and other dense vegetation to provide a visual screen between the slip road and the wetlands (refer to Figure 7.3 of the EIA Report).	Decommissioning and operation	N/A	
7.93	Ecological Requirement	Landscaping works should maximize use of native plant species of high conservation value to birds and other wildlife. Examples of species of known conservation value are given in Table 7.5 of the EIA Report.	Decommissioning and operation	N/A	
10.78	Landscape & Visual Impact	Advance tree transplanting of existing road side trees affected by the proposed improvement works	During Construction	√	
10.78	Landscape & Visual Impact	Advance boundary planting, new compensatory planting on area not affected by the proposed improvement works	During Construction	N/A	Not yet commenced.
10.78	Landscape & Visual Impact	Advance screen planting, new compensatory planting on area not affected by the proposed improvement works	During Construction	N/A	Not yet commenced.
10.78	Landscape & Visual Impact	Soil conservation – conservation of existing and imported soil resources. Existing soil resources on site will be conserved in stockpiles with a maximum height of 2m. All material stockpiles should be covered with an impermeable material and sandbagging diversions should also be placed around exposed soil. Material stockpiled should be in area with the least obstruction to residential, pedestrian.	During Construction	√	
10.78	Landscape & Visual Impact	Selection of fast growing native tree and shrub mixes in compensation for the removal/disturbance area. Compensatory planting should be at a minimum 1 to 3 basis. An approximate of 700 nos. of compensatory planting will be planted along the edges to soften and screen the built elements and mitigate the landscape and visual impact. The combination of natives tree and shrub mixes will provide a more diverse edge effect and break up the overall visual dominance (refer to Figure 10.22 of the EIA Report).	During Construction	√	
10.78	Landscape & Visual Impact	Foundation planting below and adjacent to viaduct as well as noise barrier with new compensatory planting	During Construction	N/A	Not yet commenced.
LMM7	Landscape & Visual Impact	Sensitive design with chromatic treatment for the viaduct structure will improve the visual quality of the proposed improvement works	During Construction	N/A	Not yet commenced.
LMM8	Landscape & Visual Impact	Sensitive design with semi-transparent treatment of noise barrier for through view	During Construction	N/A	Not yet commenced.
11.32	Land Contamination	<u>Land Contamination Assessment</u> (i) Proposition and review of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to site investigation works; (ii) Commencement of land contamination assessment works based upon the endorsed CAP; (iii) Submission of Contamination Assessment Report (CAR) for EPD's approval; (iv) If contamination is identified in the CAR, a Remediation Action Plan (RAP) should be submitted to EPD for approval;	During Construction	√	The CAP for Sites A and E has been prepared and being reviewed by ER.
11.33	Land Contamination	<u>Mitigation Measures for Workers' Health and Safety</u> Site workers should wear appropriate personal protective equipment (i.e. gloves, mask) when exposed to potential contaminated soil and groundwater. Eating, drinking and smoking should be prohibited in contaminated areas to avoid advertent ingestion of contaminants. Stockpiling of contaminated soil should be avoided as far as possible. If this cannot be avoided, the stockpile of contaminated material should be segregated from the uncontaminated ones. Moreover, the contaminated materials should be properly covered with appropriate material (e.g. tarpaulin) to avoid leaching of contaminants, especially during heavy rainstorm. Bulk earth moving equipment should be utilized as much as possible to minimize handling and contact of contaminated materials of the workers. Adequate washing facilities should be provided on site. If disposal of excavated contaminated soil is needed, the Contractor should dispose the contaminated soil according to the requirements agreed by EPD.	During Construction	√	



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C045685

Certificate of Calibration

This is to certify that the equipment

Description : Precision Integrating Sound Level Meter

Manufacturer : ONO SOKKI

Model No. : LA-5110

Serial No. : 72700154

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C045685.*

The equipment is supplied by

Co. Name : Atkins China Limited

Address : 15/F, Miramar Tower, 132 Nathan Road, Tsim Sha Tsui, Kowloon

Date of Issue : 30 December 2004

Certified by :  C F Leung

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o G/E, LCK Telephone Exchange Building, 2 Yuet Lun Street, Lai Chi Kok, Kowloon, Hong Kong
Tel: 2927 2606 Fax: 2744 8986 E-mail: calllab@suncreation.com Website: www.suncreation.com



Calibration Report

ITEM TESTED

DESCRIPTION : Precision Integrating Sound Level Meter
MANUFACTURER : ONO SOKKI
MODEL NO. : LA-5110
SERIAL NO. : 72700154

TEST CONDITIONS

AMBIENT TEMPERATURE : (23 ± 2)°C
LINE VOLTAGE : ---
RELATIVE HUMIDITY : (55 ± 15)%

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 29 December 2004

JOB NO. : IC04-3635

TEST RESULTS

The results apply to the particular unit-under-test only.
All calibration points are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Brüel & Kjær Calibration Laboratory, Denmark

Tested by :

H.S. Yuen

Date : 30 December 2004

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o G/E, LCK Telephone Exchange, Building 2 Yuet Lam Street, Lai Chi Kok, Kowloon, Hong Kong.
Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
2. Self-calibration was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

<u>Equipment ID</u> CL281	<u>Description</u> Multifunction Acoustic Calibrator
	<u>Certificate No.</u> 12909
5. Test procedure : MA101N.
6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 651 Type I Spec. (dB)
Range (dB)	Mode	Weighting	Response	Level (dB)	Freq. (kHz)		
40 - 100	Lp	A	Fast	94.00	1	94.0	± 0.7

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)	
Range (dB)	Mode	Weighting	Response	Level (dB)	Freq. (kHz)		
60 - 120	Lp	A	Fast	94.00	1	94.0 (Ref.)	
				104.00			
				114.00			

IEC 651 Type I Spec. : ±0.4 dB per 10 dB step and ±0.7 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	
Range (dB)	Mode	Weighting	Response	Level (dB)	Freq. (kHz)		
40 - 100	Lp	A	Fast	94.00	1	94.0	
			Slow				
			Imp				

Report No. : C045685

Calibration Report

6.3 Frequency Weighting

6.3.1 A-Weighting

Range (dB)	UUT Setting		Applied Value		UUT Reading (dB)	IEC 651 Type 1 Spec. (dB)
	Mode	Weighting	Level (dB)	Freq. (Hz)		
40 - 100	Lp	A	Fast	94.00	31.5	-39.4 ± 1.5
					63	-26.2 ± 1.5
					125	-16.1 ± 1.0
					500	-3.2 ± 1.0
					1 k	94.0
			2 k	95.2	+1.2 ± 1.0	

6.3.2 C-Weighting

Range (dB)	UUT Setting		Applied Value		UUT Reading (dB)	IEC 651 Type 1 Spec. (dB)
	Mode	Weighting	Level (dB)	Freq. (Hz)		
40 - 100	Lp	C	Fast	94.00	31.5	-3.0 ± 1.5
					63	-0.8 ± 1.5
					125	-0.2 ± 1.0
					500	0.0 ± 1.0
					1 k	94.0
			2 k	93.8	-0.2 ± 1.0	

Remarks : - Mfr's Spec. : IEC651 Type 1

- Uncertainties of Applied Value : 94 dB : 31.5 Hz - 125 Hz : ± 0.35 dB
500 Hz : ± 0.30 dB
1 kHz : ± 0.20 dB
2 kHz : ± 0.35 dB
- 104 dB : 1 kHz : ± 0.30 dB
114 dB : 1 kHz : ± 0.30 dB

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Calibration Report only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C045684

Certificate of Calibration

This is to certify that the equipment

Description : Sound Calibrator (P022X0077701)

Manufacturer : ONO SOKKI

Model No. : SC-2110

Serial No. : 00461

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C045684.*

The equipment is supplied by

Co. Name : Atkins China Limited

Address : 15/F, Miramar Tower, 132 Nathan Road, Tsim Sha Tsui, Kowloon

Date of Issue : 30 December 2004

Certified by :  C.F. Leung

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o G/F, LCK Telephone Exchange Building, 2 Yuet Lun Street, Lai Chi Kok, Kowloon, Hong Kong.
Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



Calibration Report

ITEM TESTED

DESCRIPTION : Sound Calibrator (P022X0077701)
MANUFACTURER : ONO SOKKI
MODEL NO. : SC-2110
SERIAL NO. : 00461

TEST CONDITIONS

AMBIENT TEMPERATURE : (23 ± 2)°C
LINE VOLTAGE : ---
RELATIVE HUMIDITY : (55 ± 15)%

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 29 December 2004

JOB NO. : IC04-3641

TEST RESULTS

The results apply to the particular unit-under-test only.
All calibration points are within user's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Brtjel & Kjær Calibration Laboratory, Denmark

Tested by :


H S Yuen

Date : 30 December 2004

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.



Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours before the commencement of the test.
2. The results presented are the mean of 3 measurements at each calibration point.
3. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL126	Sound Level Meter	C043496
CL130	Universal Counter	C042857
CL281	Multifunction Acoustic Calibrator	12909

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	User's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (Hz)	User's Spec.	Uncertainty of Measured Value (Hz)
1	999.2	1 kHz ± 1 %	± 0.1

Remark : - The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Calibration Report only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Annex D Noise Monitoring Results - Normal Hours

Monitoring Location	Date of Monitoring	Monitoring Period		Weather	Wind Speed,	L _{eq(30min)} , dB(A)	L ₁₀ , dB(A)	L ₉₀ , dB(A)	Major Noise Source(s)
		From	To						
CM1	02/11/2005	12:06	12:36	Sunny	<1	67	69	64	Percussive piling at N1 works area; Road traffic noise from San Tin Highway.
	09/11/2005	17:00	17:30	Sunny	0	68	70	68	Percussive piling at N1 works area; Road traffic noise from San Tin Highway.
	16/11/2005	11:55	12:25	Fine	0	67	70	66	Road traffic noise from San Tin Highway.
	26/11/2005	12:00	12:30	Sunny	<1	66	68	65	Percussive piling at N1 works area; Road traffic noise from San Tin Highway.
	30/11/2005	13:25	13:55	Sunny	0	68	71	64	Minor site activities in South Division.
CM2	02/11/2005	12:47	13:17	Sunny	<1	70	73	64	Percussive piling at N1 works area; Road traffic noise from San Tin Highway and machinery noise from vehicle maintenance workshop nearby.
	09/11/2005	12:11	12:41	Sunny	0	70	73	65	Percussive piling at N1 works area; Road traffic noise from San Tin Highway and machinery noise from vehicle maintenance workshop nearby.
	16/11/2005	12:35	13:05	Sunny	0	71	73	65	Percussive piling at B10 pier location and N1 works area; Road traffic noise from San Tin Highway and machinery noise from vehicle maintenance workshop nearby.
	25/11/2005	12:16	12:46	Sunny	0	70	73	64	Percussive piling at B3 pier location; Road traffic noise from San Tin Highway and machinery noise from vehicle maintenance workshop nearby.
	30/11/2005	14:18	14:48	Sunny	0	70	73	65	Minor site activities in South Division; Road traffic noise from Santin Highway and machinery noise from vehicle maintenance workshop nearby.
CM3	02/11/2005	13:34	14:04	Sunny	<1	64	63	49	Percussive piling at B1 pier location and excavation in the slip road B works area next to Fanling Highway; Road traffic noise from surrounding road and machinery noise from vehicle maintenance workshop nearby.
	09/11/2005	12:59	13:29	Sunny	0	67	62	49	Percussive piling at B1 pier location and concrete breaking in the slip road B works area next to Fanling Highway; Road traffic noise from surrounding road and machinery noise from vehicle maintenance workshop nearby.
	16/11/2005	13:20	13:50	Sunny	0	65	65	51	Percussive piling at B1 and B10 pier locations and excavation in front of Choi Lee Carpark; Road traffic noise from surrounding road and machinery noise from vehicle maintenance workshop nearby.
	25/11/2005	13:05	13:35	Sunny	0	62	59	52	Percussive piling at B3 pier location; sheet piling at slip road B works area; Road traffic noise from surrounding road and machinery noise from vehicle maintenance workshop nearby.
	30/11/2005	15:10	15:40	Sunny	0	62	61	49	Sheet piling at slip road B works area; Road traffic noise from surrounding roads and machinery noise from carpark next to the monitoring station.
CM4	03/11/2004	12:18	12:33	Sunny	0	62	66	57	Percussive piling at B1 pier location in the slip road C works area; Road traffic noise from Kwu Tung Road and vehicle maintenance workshop nearby.
	09/11/2005	13:39	13:54	Sunny	0	62	66	55	Percussive piling at B2 pier location in the slip road C works area; Road traffic noise from Kwu Tung Road and vehicle maintenance workshop nearby.

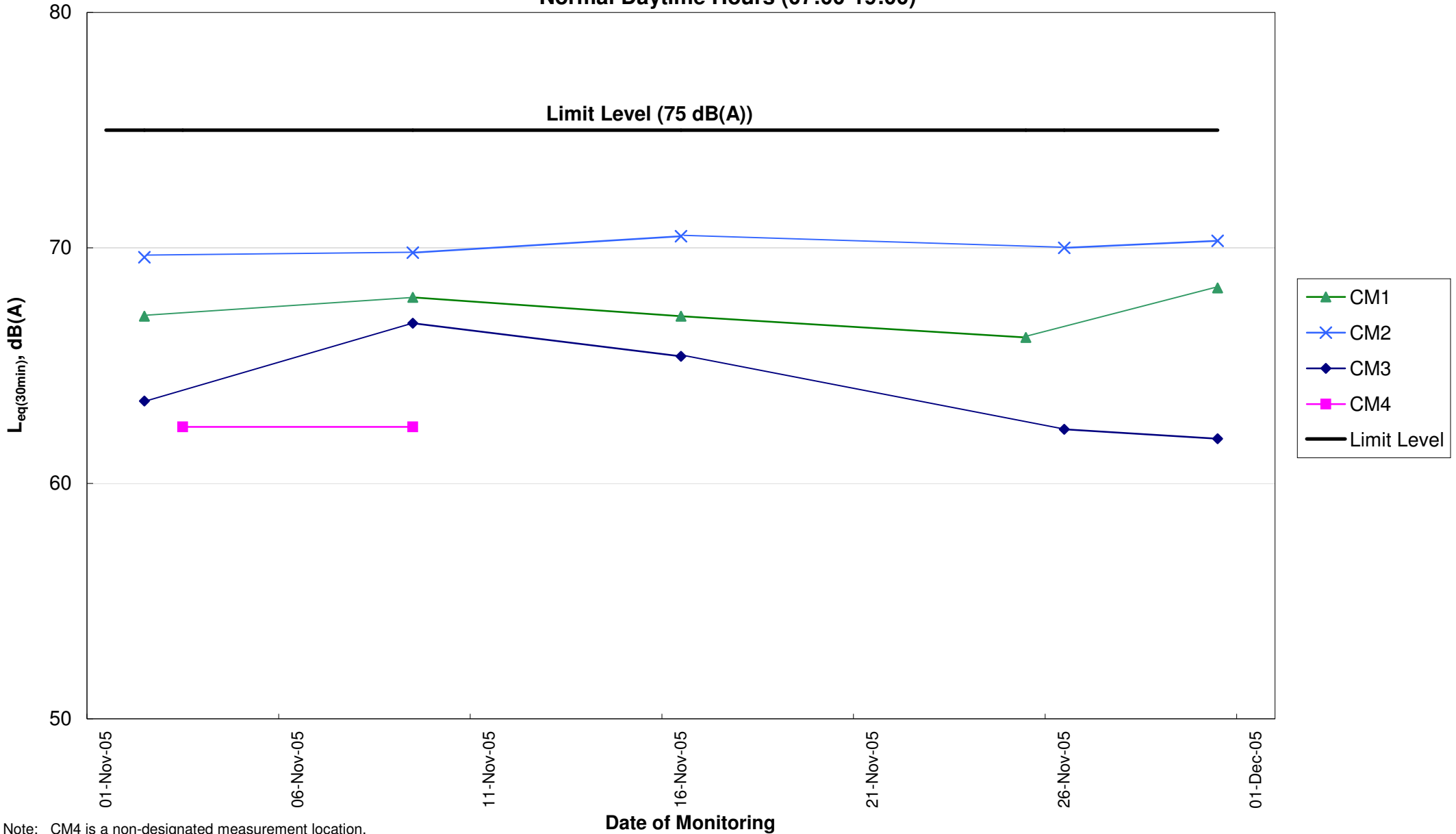
Remarks: CM2 and CM4 are non-façade measurement locations. A positive correction of 3dB(A) has been applied to the measured noise level according to EPD's guideline. CM4 is an additional measurement location (equivalent to CM4 in the Baseline Environmental Monitoring Report). It is a non-EIA designated measurement location.

Annex D Noise Monitoring Results - Restricted Hours

Monitoring Location	Date of Monitoring	Monitoring Period		Weather	Wind Speed, m/s	L _{eq(15min)} , dB(A)	L ₁₀ , dB(A)	L ₉₀ , dB(A)	Major Noise Source(s)
		From	To						
CM1	06/11/2005	11:40	11:55	Sunny	1	62	62	61	Road traffic noise from San Tin Highway.
	13/11/2005	09:45	10:00	Sunny	0	61	63	60	Road traffic noise from San Tin Highway.
	20/11/2005	14:05	14:20	Sunny	0	61	63	59	Road traffic noise from San Tin Highway.
	27/11/2005	10:05	10:20	Sunny	0	62	63	59	Road traffic noise from San Tin Highway.
CM2	06/11/2005	12:06	12:21	Sunny	1	<u>68</u>	71	62	Road traffic noise from San Tin Highway.
	13/11/2005	10:17	10:32	Sunny	0	<u>68</u>	71	63	Road traffic noise from San Tin Highway.
	20/11/2005	13:38	13:53	Sunny	0	<u>68</u>	69	61	Road traffic noise from San Tin Highway.
	27/11/2005	10:38	10:53	Sunny	0	<u>68</u>	70	62	Road traffic noise from San Tin Highway.
CM3	06/11/2005	12:39	12:54	Sunny	1	62	57	49	Road traffic and machinery noise from vehicle maintenance workshop nearby.
	13/11/2005	11:00	11:15	Sunny	0	62	60	51	Road traffic and machinery noise from vehicle maintenance workshop nearby.
	20/11/2005	13:08	13:23	Sunny	0	59	58	52	Road traffic and machinery noise from vehicle maintenance workshop nearby.
	27/11/2005	11:24	11:39	Sunny	0	59	61	54	Road traffic and machinery noise from vehicle maintenance workshop nearby.

Remarks: CM2 is a non-façade measurement location. A positive correction of 3dB(A) has been applied to the measured noise level according to EPD's guideline. Underlined figure indicates an exceedance of the Limit Level (65 dB(A))

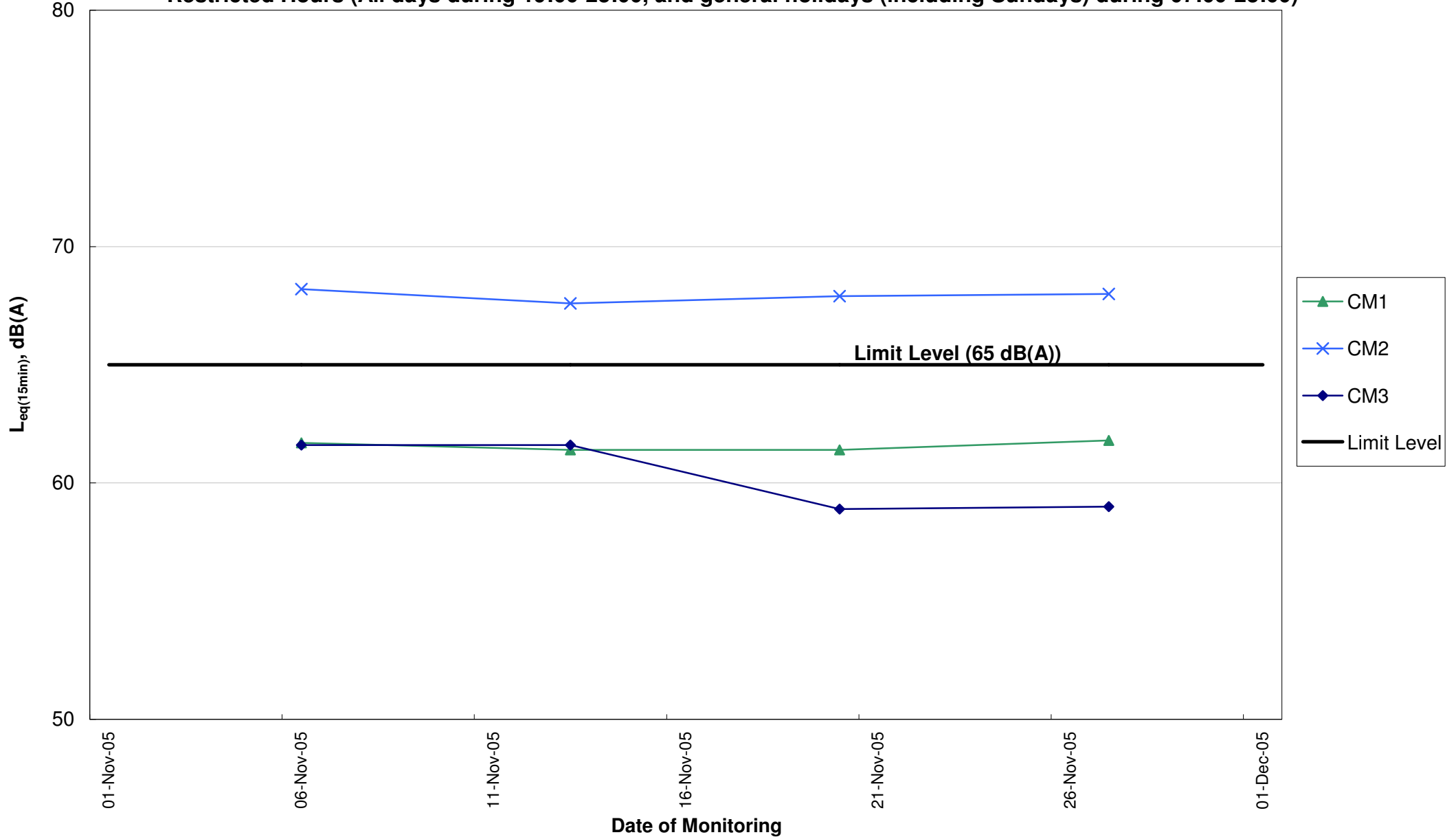
**Annex D - Noise Monitoring Results of Monitoring Stations CM1, CM2, CM3 & CM4
Normal Daytime Hours (07:00-19:00)**



Note: CM4 is a non-designated measurement location.

CM2 and CM4 are non-façade measurement locations. A positive correction of 3dB(A) has been applied to the measured noise level according to EPD's

Annex D - Noise Monitoring Results of Monitoring Stations CM1, CM2 & CM3
Restricted Hours (All days during 19:00-23:00, and general holidays (including Sundays) during 07:00-23:00)



Note: CM2 is a non-façade measurement locations. A positive correction of 3dB(A) has been applied to the measured noise level according to EPD's guideline.

**Contract No. HY 2004/09 Improvements to San Tin Interchange
Water Quality Visual Inspection Report**

Weekly Report No.: 018

	(1)	(2)	(3)
Date of Inspection:	1 st November 2005	3 rd November 2005	5 th November 2005
Time:	13:30	14:30	10:00
Weather Condition:	Cloudy	Sunny	Sunny
Works Inspected:	Pre-drilling, bored-piling	Pre-drilling, bored-piling	Bored-piling, sheet piling
Location:	Division North 1, 2 & South	Division North 1, 2 & South	Division North 1, 2 & South

Are Works in Compliance with:

- | | Y | N |
|---|---|---|
| 1. Water Pollution Control Ordinance and the Subsidiary Legislation | √ | |
| 2. Recommendations and requirements in the Project EIA Report, EM&A Manual and Environmental Permit | √ | |
| 3. Recommendations and requirements in the Contractor's Drainage Management Plan (DMP) | √ | |
| 4. Contract No. HY/2004/09, Particular Specification Section 26, Environmental Protection, items under Clause 26.04 | √ | |
| 5. Recommendations and requirements in the ProPECC Note PN 1/94 "Construction Site Drainage" | √ | |
| 6. Any relevant Effluent Discharge License received by the Contractor | √ | |

Description of Environmental Non-compliance or Deficiency (if any):

Nil.

Remedial Actions – Mitigation Measures Implemented or Proposed (if any):

Nil.

Remarks:

During inspection on 3rd November 2005, water pool was seen to have been accumulated near the BC3 works area. The Contractor was advised to empty the water pool immediately and fill up the sunken area with cement. Sandbags should be properly placed to divert the surface runoff. Water pump should be provided to clear any accumulated water

During inspection on 5th November, the sunken area has already been filled up with cement, and sandbags have been provided for proper diversion. A pump has been installed for pumping away any accumulated water.

Prepared by : K L Cheung


Title : ET – Environmental Consultant

Signature : 

Date : 7th November 2005

Reviewed and approved by : Susana Bezy

Title : Environmental Team Leader

Signature : 

Date : 7th November 2005

Sent to: IEC (ERM), ER (Maunsell), Contractor (Chun Wo)

**Contract No. HY 2004/09 Improvements to San Tin Interchange
Water Quality Visual Inspection Report**

Weekly Report No.: 019

	(1)	(2)	(3)
Date of Inspection:	7 th November 2005	9 th November 2005	10 th November 2005
Time:	14:00	09:30	14:30
Weather Condition:	Cloudy	Sunny	Sunny
Works Inspected:	Pre-drilling, bored-pilling	Pre-drilling, bored-pilling	Pre-drilling, bored-pilling
Location:	Division North 1, 2 & South	Division North 1, 2 & South	Division North 1, 2 & South

Are Works in Compliance with:

1. Water Pollution Control Ordinance and the Subsidiary Legislation
2. Recommendations and requirements in the Project EIA Report, EM&A Manual and Environmental Permit
3. Recommendations and requirements in the Contractor's Drainage Management Plan (DMP)
4. Contract No. HY/2004/09, Particular Specification Section 26, Environmental Protection, items under Clause 26.04
5. Recommendations and requirements in the ProPECC Note PN 1/94 "Construction Site Drainage"
6. Any relevant Effluent Discharge License received by the Contractor

Y	N
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Description of Environmental Non-compliance or Deficiency (if any):

During inspection on 10th November 2005, muddy water at the bottom of the pile cap near the Bridge K works area was pumped and discharged directly into EMDC without sedimentation.

Remedial Actions – Mitigation Measures Implemented or Proposed (if any):

The Contractor was asked to discontinue the discharge immediately. All wastewater generated from the works areas should be diverted to either sedimentation tank or sump pit prior to the discharge.

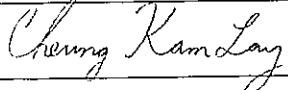
Remarks:

No specific observations were recorded during the first two inspections conducted on the 7th and 9th November 2005. However, non-compliance was observed during the inspection conducted on the 10th November 2005.

Following the Event and Action Plan for water quality monitoring provided in the EM&A Manual, a Notification of Exceedance (No. 009) was issued to all parties on 11th November 2005 with respect to the non-compliance recorded. The ET repeated the visual inspection on 11th November 2005 accordingly. During the inspection, the pipe used for the discharge was found to have been removed and the outlet placed back inside the pile cap area. No direct discharge was observed. The Contractor is reminded to divert all wastewater to sedimentation tank prior to discharge. Direct discharge from the site is strictly prohibited and all workers should be trained to be fully aware of this.

Prepared by : K L Cheung


Title : ET – Environmental Consultant

Signature : 

Date : 14th November 2005

Reviewed and approved by : Susana Bezy

Title : Environmental Team Leader

Signature : 

Date : 14th November 2005

Sent to: IEC (ERM), ER (Maunsell), Contractor (Chun Wo)

Legend:

Works Boundary

NO.	DESCRIPTION	DATE	BY	CHECKED	SCALE

香港公路局
Highways Department
工程處
Works Division

怡和建築工程有限公司
YIP HO CONSTRUCTION & ENGINEERING CO. LTD.
ATKINS
香港怡和建築工程有限公司
Atkins
怡和建築工程有限公司

Contract No. HY/2004/09
Improvements to San Tin Interchange

PROJECT PLAN

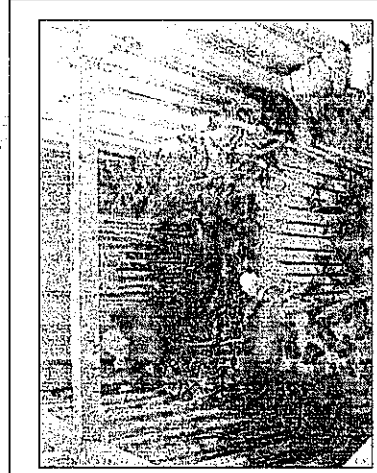
NO.	DESCRIPTION	DATE	BY	CHECKED	SCALE

FIGURE 1

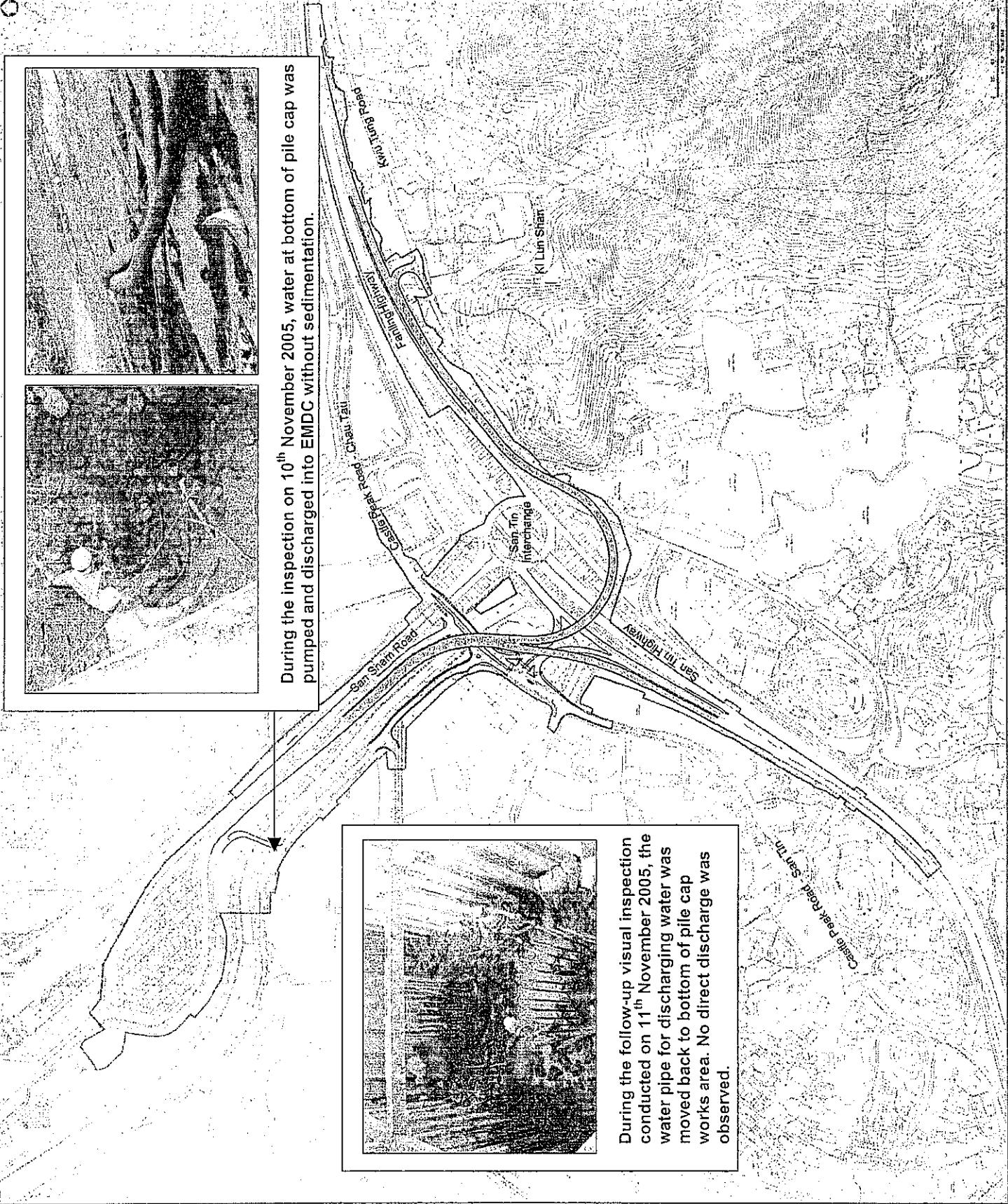
Weekly Report No. 019



During the inspection on 10th November 2005, water at bottom of pile cap was pumped and discharged into EMDC without sedimentation.



During the follow-up visual inspection conducted on 11th November 2005, the water pipe for discharging water was moved back to bottom of pile cap works area. No direct discharge was observed.



**Contract No. HY 2004/09 Improvements to San Tin Interchange
Water Quality Visual Inspection Report**

Weekly Report No.: 020

	(1)	(2)	(3)
Date of Inspection:	14 th November 2005	16 th November 2005	17 th November 2005
Time:	15:30	09:30	13:30
Weather Condition:	Fine	Sunny	Sunny
Works Inspected:	Pre-drilling, bored-piling	Pre-drilling, bored-piling	Pre-drilling, bored-piling
Location:	Division North 1, 2 & South	Division North 1, 2 & South	Division North 1, 2 & South

Are Works in Compliance with:	Y	N
1. Water Pollution Control Ordinance and the Subsidiary Legislation	√	
2. Recommendations and requirements in the Project EIA Report, EM&A Manual and Environmental Permit	√	
3. Recommendations and requirements in the Contractor's Drainage Management Plan (DMP)	√	
4. Contract No. HY/2004/09, Particular Specification Section 26, Environmental Protection, items under Clause 26.04	√	
5. Recommendations and requirements in the ProPECC Note PN 1/94 "Construction Site Drainage"	√	
6. Any relevant Effluent Discharge License received by the Contractor	√	

Description of Environmental Non-compliance or Deficiency (if any):

Remedial Actions – Mitigation Measures Implemented or Proposed (if any):

Remarks:

- During the inspection on 14th November 2005, silty water generated from the bored piling works at the Bridge-K works area was seen to have filled up the bored cavity. Overflow from the sedimentation tank provided was observed due to limited capacity. The Contractor had suspended the works and was seen pumping the water to a sedimentation tank with larger capacity. This control was seen to be effective. No overflow at this area was observed during the next inspection.
- During the inspection on 16th November 2005, sediment has accumulated in the sandbags barrier provided at the discharge outlet to the EMDC at N1 open lay-down area. The Contractor was reminded to remove the accumulated sediment and debris regularly.
- During the inspection on 17th November 2005, sediment accumulated at the discharge outlet to the EMDC at N1 open lay-down area was seen to have been cleaned up.

Prepared by : K L Cheung

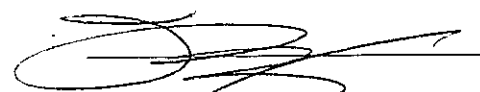
Title : ET – Environmental Consultant

Signature : 

Date : 21st November 2005

Reviewed and approved by : Susana Bezy

Title : Environmental Team Leader

Signature : 

Date : 21st November 2005

Sent to: IEC (ERM), ER (Maunsell), Contractor (Chun Wo)

Legend: _____ Works Boundary

NO.	DESCRIPTION	DATE	BY	CHECKED BY

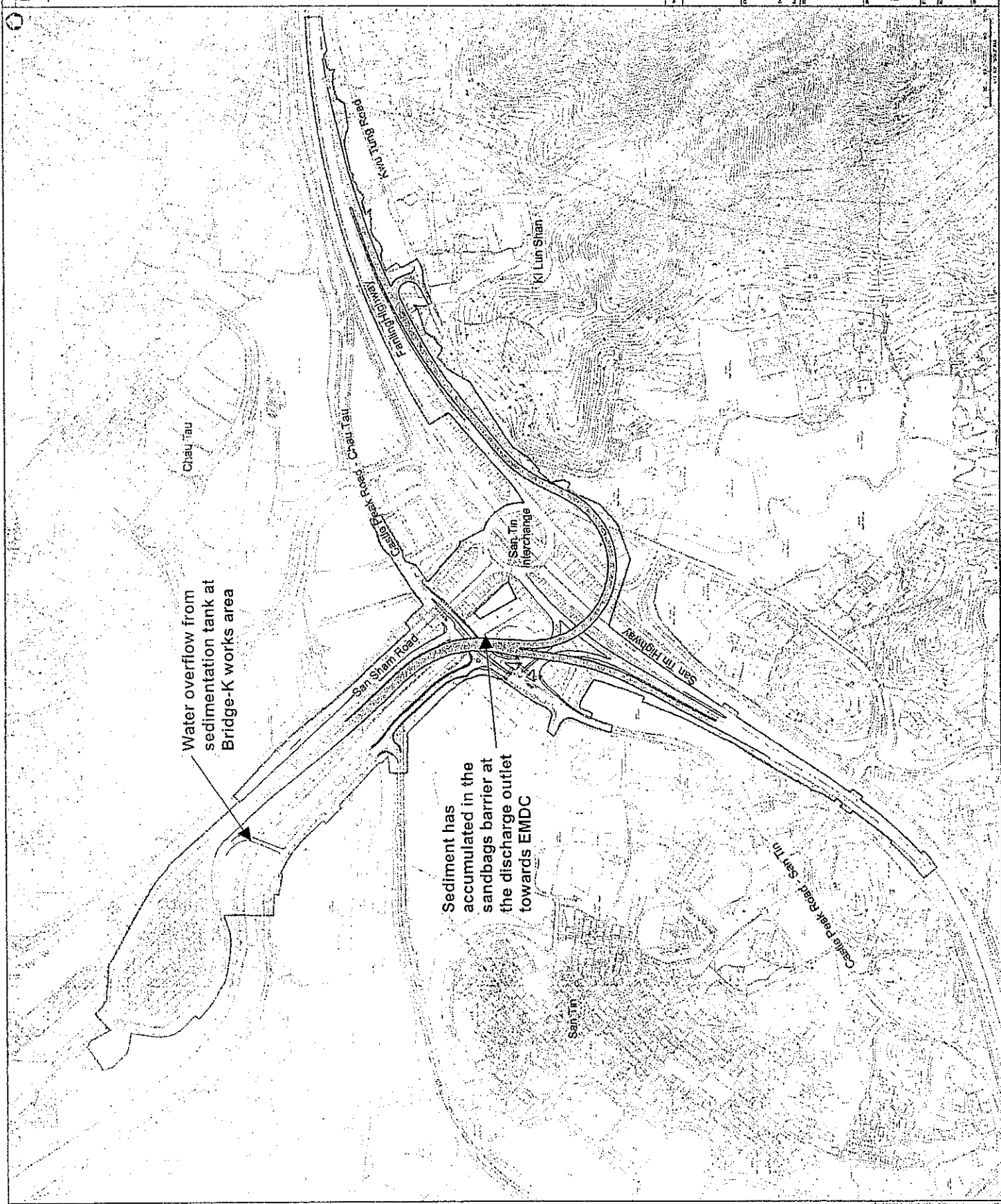
路政署
 Highways Department
 Works Division

亞細亞工程有限公司
 Atkins Construction & Environment Co., Ltd.
 亞細亞工程有限公司
 Atkins Construction & Environment Co., Ltd.

Contract No. HY/2004/09
 Improvements to San Tin Interchange

PROJECT PLAN

DATE	SCALE	PROJECT NO.	FIGURE NO.
11/11/09	1:1000	HY/2004/09	FIGURE 1



**Contract No. HY 2004/09 Improvements to San Tin Interchange
Water Quality Visual Inspection Report**

Weekly Report No.: 021

	(1)	(2)	(3)
Date of Inspection:	21 st November 2005	23 rd November 2005	24 th November 2005
Time:	14:00	14:00	14:30
Weather Condition:	Sunny	Sunny	Sunny
Works Inspected:	Pre-bored H-pile, bored-pilling	Pre-bored H-pile, bored-pilling	Pre-bored H-pile, bored-pilling
Location:	Division North 1, 2 & South	Division North 1, 2 & South	Division North 1, 2 & South

Are Works in Compliance with:

- | | Y | N |
|---|---|---|
| 1. Water Pollution Control Ordinance and the Subsidiary Legislation | √ | |
| 2. Recommendations and requirements in the Project EIA Report, EM&A Manual and Environmental Permit | √ | |
| 3. Recommendations and requirements in the Contractor's Drainage Management Plan (DMP) | √ | |
| 4. Contract No. HY/2004/09, Particular Specification Section 26, Environmental Protection, items under Clause 26.04 | √ | |
| 5. Recommendations and requirements in the ProPECC Note PN 1/94 "Construction Site Drainage" | √ | |
| 6. Any relevant Effluent Discharge License received by the Contractor | √ | |

Description of Environmental Non-compliance or Deficiency (if any):

Nil.

Remedial Actions – Mitigation Measures Implemented or Proposed (if any):

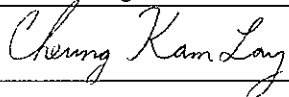
Nil.

Remarks:

- During inspection on 21st November 2005, deposited sediment was observed to have been accumulated inside the sandbag barriers provided at the discharge outlet towards EMDC in N1 Open Lay-down Area. The Contractor was reminded to clear the deposited sediment regularly. This location was checked during the inspection on 23rd November 2005 and the sediment was seen to have been cleared.
- During inspection on 24th November 2005, deposited sediment was observed to have been accumulated inside the sandbag barriers provided at the discharge outlet towards EMDC in Division N2. The Contractor was reminded to clear the deposited sediment more frequently. This location was checked during the inspection on 25th November 2005 and the sediment was seen to have been cleared.
- During inspection on 24th November 2005, deposited sediment was observed to have been accumulated at the bottom of U-channel beside the site entrance of N1 Open Lay-down Area. This location was checked on 25th November 2005 and the deposited sediment was seen to have been removed.

Prepared by : K L Cheung

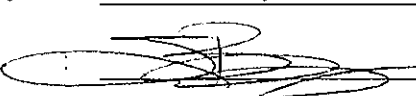
Title : ET – Environmental Consultant

Signature : 

Date : 25th November 2005

Reviewed and approved by : Susana Bezy

Title : Environmental Team Leader

Signature : 

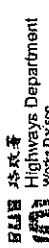
Date : 28th November 2005


Sent to: IEC (ERM), ER (Maunsell), Contractor (Chun Wo)

PROJECT SCALE: 1:10000 (FOR ALL DIMENSIONS EXCEPT AS NOTED)

Legend: _____ Works Boundary

NO.	DESCRIPTION	DATE	BY	CHECKED BY


Highways Department
 Works Division

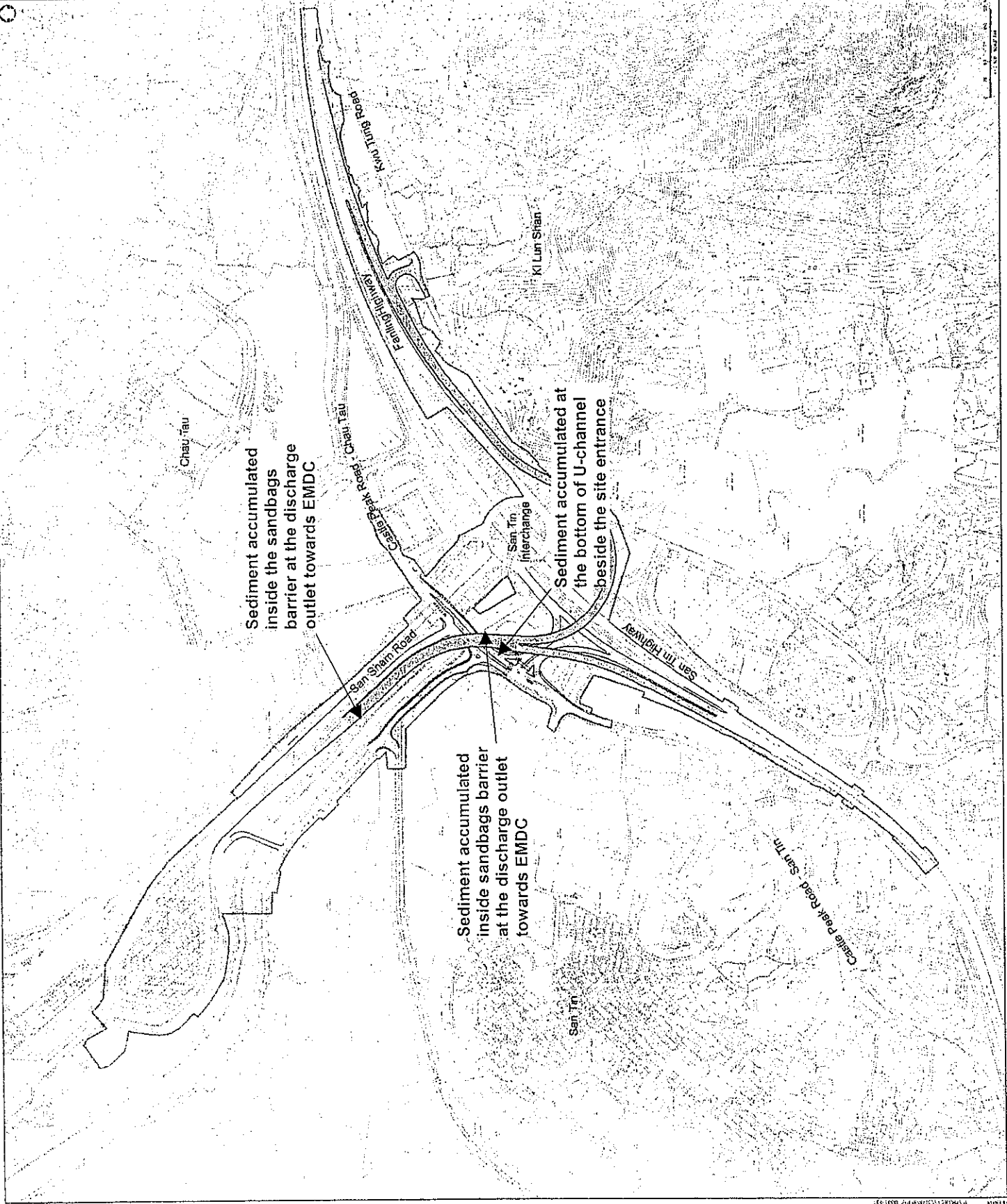

ATKINS
 Civil, Mechanical & Environmental
 Engineering
 怡和建築工程管理有限公司
 Civil, Mechanical & Environmental
 Engineering Co., Ltd.
 10/F, 100, Des Voeux Road West, Hong Kong

Contract No. HY/2004/09
 Improvements to San Tin Interchange

PROJECT PLAN

NO.	DATE	DESCRIPTION	BY	CHECKED BY

FIGURE 1



CONTRACT NO. HY/2004/09
IMPROVEMENTS TO SAN TIN INTERCHANGE

Landscape and Visual Resources Inspection Report (No. 05 - 21st November and 28th November 2005)

Checklist landscape mitigation measure monitoring at construction stage

Advance Tree Transplanting (LMM1)					
Location	Compliance			Notes/ Remarks	Items to be monitored
	Yes	No	N/A		
1. Division North 1	X			Transplanted trees (those located near the site office) are in fair conditions. Contractor have to regularly water the transplanted trees to ensure their survival. It is found that on site some of the trees showed a sign of dehydration. It is found that the temporary nursery located near the site office is not properly surrounded by sand bags, soil may be washed-off during watering.	<ul style="list-style-type: none"> - Identification of trees - Root cutting - Crown pruning - Lifting and relocation
2. Division North 2	X				
3. Division South	X				
Advance boundary buffer planting (LMM2)					
Location	Compliance			Notes/ Remarks	Items to be monitored
	Yes	No	N/A		
1. Division North 1			X	Not yet commenced. The advance boundary buffer planting should be implemented as soon as the site condition is ready for planting. The Contractor has been requested to forward the ET a set of drawing of the advance boundary buffer planting plan, once available, for monitoring purpose.	- Monitoring implementation and maintenance of planting
2. Division North 2			X		
3. Division South			X		
Advance screen planting (LMM3)					
Location	Compliance			Notes/ Remarks	Items to be monitored
	Yes	No	N/A		
1. Division North 1			X	Not yet commenced. The advance screen planting should be implemented as soon as the site condition is adequate. The Contractor has been requested to forward the ET a set of drawing of the advance screen planting plan, once available, for monitoring purpose.	- Monitoring implementation and maintenance of planting
2. Division North 2			X		
3. Division South			X		
Soil conservation (LMM4)					
Location	Compliance			Notes/ Remarks	Items to be monitored
	Yes	No	N/A		
1. Division North 1	X			Stockpiles of soil formed with height less than 2m. Stockpiles covered with impermeable material (nylon sheet). Some nylon sheets are removed for construction purpose.	<ul style="list-style-type: none"> - Existing soil will be conserved in stockpiles with a max. height of 2m - All material stockpiles should be covered with impermeable material - Sandbagging diversions should be placed around exposed soil - Least obstruction to residential and pedestrian
2. Division North 2	X				
3. Division South	X				
Sensitive design and chromatic treatment for the viaduct (LMM7)					
Location	Compliance			Notes/ Remarks	Items to be monitored
	Yes	No	N/A		
1. Division North 1			X	Not yet commenced.	
2. Division North 2			X		
3. Division South			X		
Semi-transparent noise barrier(LMM8)					
Location	Compliance			Notes/ Remarks	Items to be monitored
	Yes	No	N/A		
1. Division North 1			X	Not yet commenced.	
2. Division North 2			X		
3. Division South			X		
Checklist landscape mitigation measure monitoring at operation stage					
Selection of fast growing native tree and shrub mixes (LMM5)					
Location	Compliance			Notes/ Remarks	Items to be monitored
	Yes	No	N/A		
1. Division North 1			X	Not yet commenced.	<ul style="list-style-type: none"> - Compensatory ratio: >1:3 - Compensatory planting will be planted along the edges to mitigate the landscape & visual impact
2. Division North 2			X		
3. Division South			X		
Foundation planting below viaduct (LMM6)					
Location	Compliance			Notes/ Remarks	Items to be monitored
	Yes	No	N/A		
1. Division North 1			X	Not yet commenced.	- Monitoring implementation and maintenance of planting
2. Division North 2			X		
3. Division South			X		

Report Prepared by: Ryan Lin

Signature: 

Title: ET - Registered Landscape Architect

Date: 28th November 2005

**Contract No. HY 2004/09 Improvements to San Tin Interchange
Landscape and Visual Resources Inspection Report (Construction Phase)**

Report No.: 010

Date of Inspection: 21st November 2005 Time: 14:30 – 16:00 Weather Condition: Sunny

Location(s) Inspected: Division North 1, North 2 & South Areas

Are Works in Compliance with:

1. Recommendations and requirements in the Project EIA Report
2. Recommendations and requirements in the Project EM&A Manual
3. Requirements in the Environmental Permit EP-190/2004

	Y	N
1.	√	
2.	√	
3.	√	

Description of Environmental Non-compliance or Deficiency (if any):

Nil

Remedial Actions – Mitigation Measures Implemented or Proposed (if any):


Nil

Remarks:

- A branch of tree located near the Subway Extension Works Area was seen to have been broken. It was seen that the scar has been covered with cloth as mitigation. The contractor is reminded to take precaution when operating mechanical plant to prevent damage to trees.

Prepared by : K L Cheung

Title : ET – Environmental Consultant

Signature : 

Date : 1st December 2005

Reviewed by : Ryan Lin

Title : ET - Registered Landscape Architect

Signature : 

Date : 2. DEC 05

Reviewed and approved by : Susana Bezy

Title : Environmental Team Leader

Signature : 

Date : 2/12/08

**Contract No. HY 2004/09 Improvements to San Tin Interchange
Landscape and Visual Resources Inspection Report (Construction Phase)**

Report No.: 011

Date of Inspection: 28th November 2005 Time: 10:30 – 12:00 Weather Condition: Sunny

Location(s) Inspected: Division North 1, North 2 & South Areas

Are Works in Compliance with:

4. Recommendations and requirements in the Project EIA Report
5. Recommendations and requirements in the Project EM&A Manual
6. Requirements in the Environmental Permit EP-190/2004

Y	N
✓	
✓	
✓	

Description of Environmental Non-compliance or Deficiency (if any):

Nil

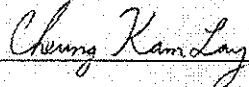
Remedial Actions – Mitigation Measures Implemented or Proposed (if any):

Nil


Remarks:

- The transplantation nursery was not bound properly. The Contractor was reminded to bind the nursery area with sufficient sandbags to prevent soil erosion.
- The Contractor is reminded to water the trees in transplantation nursery regularly, especially during the dry season, to maintain the trees' well-being.

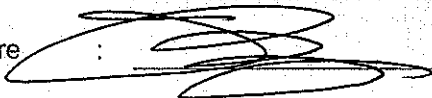
Prepared by : K L Cheung Title : ET – Environmental Consultant

Signature :  Date : 1st December 2005

Reviewed by : Ryan Lin Title : ET - Registered Landscape Architect

Signature :  Date : 2 DEC. 05

Reviewed and approved by : Susana Bezy Title : Environmental Team Leader

Signature :  Date : 2/12/05

Site: Contract No. HY/2004/09 - Improvements to San Tin Interchange

Inspection Date:	3 November 2005	Inspected By:	K.L.Cheung, Allen Pang	Time:	14:30
Weather Condition:	Sunny				

				N/A or not observed	Yes	No	Remarks / Photo
A	General						
A1	Is the Environmental Permit displayed at the entrances / exits?				√		
B	Air Quality						
B1	Is open burning avoided?				√		
B2	Are completed earthworks sealed as soon as practicable?				√		
B3	Are vehicles and equipment switched off while not in use?				√		
B4	Are plant and equipment well maintained? (i.e. without black smoke from powered plant)				√		
B5	Any remedial action undertaken?			√			
B6	Observable dust source(s):		Wind erosion		√		
	√	Vehicle/ Equipment Movements	Loading/ unloading of materials				
	Others:						
B7	Are unpaved areas watered regularly to avoid dust generation?				√		Refer to Note No.1.
B8	Are dusty material covered or regularly watered?				√		
B9	Are dusty materials sprayed prior to loading?				√		
B10	Odorous materials immediately covered and promptly removed?			√			
B11	Is generation of dust avoided during loading/unloading?				√		
B12	Are loaded dump trucks covered appropriately?				√		
B13	Are wheel washing facilities provided at all site exits?				√		
B14	Are there enclosures around the main dust-generating activities?				√		Dust enclosure provided during pre-drilling works.
C	Noise						
C1	Are all plant and equipment well maintained and in good operating condition?				√		
C2	Is idle equipment turned off or throttled down?				√		
C3	Are powered mechanical equipment covered or shielded by acoustic materials?				√		The piling head of percussive piling machine was shielded by acoustic enclosure.
C4	Are silenced equipment used where practicable?				√		
C5	Are noise barriers provided to protect Kwu Tung Road NSRs?			√			No piling works near Kwu Tung Rd NSRs.
C6	Do air compressors have valid noise labels?				√		
C7	Do compressors operate with doors closed?			√			
C8	Major Noise Source(s):		√	Traffic		√	Road traffic on San Tin Highway and Fanling Highway. Pre-drilling, bored piling works.
	√	Construction activities inside of site		Construction activities outside of site			
	Others:						

		N/A or not observed	Yes	No	Remarks / Photo
D	Water Quality				
D1	Is drainage system adequate?		√		
D2	Are there temporary ditches for runoff discharge into appropriate:	Watercourse?	√		
D3		With silt retention pond?	√		
D4	Do permanent drainage channels have:	sediment basin?	√		
D5		traps and baffles?	√		
D6	Is groundwater pumped out discharged via sediment traps / tanks?		√		
D7	Are there sediment tanks for settling runoff prior to disposal?		√		
D8	Constructed from pre-formed individual cells?		√		
D9	Adequate capacity?		√		
D10	Free from silt and sediment?		√		
D11	Are there oil interceptors in drainage system?	√			
D12	Oil and grease removed regularly?	√			
D13	Bypass to prevent flushing during periods of heavy rain?	√			
D14	Is drainage system well maintained?		√		Refer to Note No. 2 & 3
D15	Is exposed earth stabilized after earthworks have been completed?		√		
D16	Are exposed slope surfaces covered (by tarpaulin or other means)?		√		
D17	Are open stockpiles of more than 50 m ³ covered during rainstorm?		√		
D18	Are manholes covered and sealed?		√		
D19	Toilet that connects to foul sewer or chemical toilets provided?		√		
D20	Is debris and rubbish on site collected and disposed of properly?		√		
D21	Is wastewater discharge license available for inspection?		√		
D22	Measures to prevent the washing away of sand/silt to drains?		√		
<u>Rainy Season</u>					
D23	Sediment control measures inspected and maintained after rainstorms?	√			
D24	Is there any sediment plume observed in nearby water courses?	√			
E	Waste / Chemical Management				
<u>General Refuse</u>					
E1	Accumulation avoided?		√		
E2	Receptacles (e.g. rubbish bins) available?		√		
E3	Disposed of regularly and properly?		√		Disposed of daily.

		N/A or not observed	Yes	No	Remarks / Photo
Chemical Waste / Waste Oil					
E4	Stored properly in designated area?		√		
E5	Labelled properly?		√		
E6	Disposed of properly?		√		
E7	Trip tickets available for inspection?		√		
Chemical / Fuel Storage Area					
E8	Is storage area bunded?		√		
E9	Adequate bund capacity? (>110% of the largest tank)		√		
E10	Are storage areas provided with locks and located on sealed areas?		√		
Construction Waste					
E11	Reused where practicable?		√		For temporary access road paving.
E12	Disposed of properly?		√		
E13	Are surplus inert materials being reused where practical as an alternative to ordering imported fill material?		√		Stockpiles at N1 storage area for backfilling.
E14	Trip tickets available for inspection?		√		
Excavated Materials					
E15	Appears contaminated? (colour, odour)			√	
E16	If suspected contaminated, appropriate procedures followed?	√			
E17	Relevant license/permit/trip tickets for disposal of construction waste or excavated materials available for inspection?		√		
F Environmental Complaint					
F1	Number of Environmental Complaint Received from	28/10/2005 to 03/11/2005	0		
G General Housekeeping					
G1	Are potential stagnant pools cleared and mosquito breeding prevented?		√		
G2	Are defined boundaries of working areas identified to prevent loss of vegetation?		√		
H Landscape and Visual					
H1	Are retained trees protected by fencing?		√		All trees in the current works areas have been fenced off.
H2	Is the work site confined within site boundaries?		√		
H3	Is damage to surrounding areas avoided?		√		
I Land Contamination					
I1	Is protective equipment (gloves, mask) provided for site staff during exposure to potential contaminated soil/ groundwater?		√		
I2	Is the contaminated soil segregated from the uncontaminated soil?		√		
I3	Are the stockpiles of contaminated soil covered appropriately?		√		

Notes / Issues Recorded On Site:


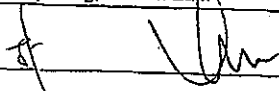
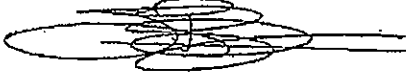
1. Haul road between Works Area Box Culvert BC3 and Retaining Wall D was observed to be dry and dusty.
2. Muddy water has accumulated at the bored piling works area adjacent to the access road along San Sham Road.
3. Surface runoff was not properly diverted to BC3 by the sandbag barriers and water pool has been accumulated near the BC3 works area.

Notes:

The corrective actions proposed during the previous inspection on 27th October 2005 have been checked and implemented properly.

Corrective Actions - Mitigation Measures Implemented or Proposed (if any):

1. Haul road should be paved with wet mud regularly to avoid dust emission.
2. Water pool should be emptied immediately. The water should be pumped to sedimentation tank and the accumulated sediment should be cleaned up.
3. The water pool should be emptied immediately and filled up with cement and sandbags should be properly placed to divert the surface runoff. Water pump should be provided to clear any accumulated water.

Inspected by:	<u>K. L. Cheung</u>	Title:	<u>Environmental Team</u>
Signature:		Date:	<u>4th November 2005</u>
Representative of Contractor:	<u>Jeffrey Tang, William Lam</u>	Title:	<u>Env. Engineer, Site Agent</u>
Signature:		Date:	<u>7-11-05</u>
Reviewed and approved by:	<u>Susana Bezy</u>	Title:	<u>Environmental Team Leader</u>
Signature:		Date:	<u>7th November 2005</u>

Site: Contract No. HY/2004/09 - Improvements to San Tin Interchange

Inspection Date:	10 November 2005	Inspected By:	K.L.Cheung, Allen Pang	Time:	14:30
Weather Condition:	Sunny				

				N/A or not observed	Yes	No	Remarks / Photo
A	General						
A1	Is the Environmental Permit displayed at the entrances / exits?				√		
B	Air Quality						
B1	Is open burning avoided?				√		
B2	Are completed earthworks sealed as soon as practicable?				√		
B3	Are vehicles and equipment switched off while not in use?				√		
B4	Are plant and equipment well maintained? (i.e. without black smoke from powered plant)				√		
B5	Any remedial action undertaken?			√			
B6	Observable dust source(s):		Wind erosion		√		
	√ Vehicle/ Equipment Movements		Loading/ unloading of materials				
	Others:						
B7	Are unpaved areas watered regularly to avoid dust generation?				√		
B8	Are dusty material covered or regularly watered?				√		
B9	Are dusty materials sprayed prior to loading?				√		
B10	Odorous materials immediately covered and promptly removed?			√			
B11	Is generation of dust avoided during loading/unloading?				√		
B12	Are loaded dump trucks covered appropriately?				√		
B13	Are wheel washing facilities provided at all site exits?				√		
B14	Are there enclosures around the main dust-generating activities?				√		Dust enclosure provided during pre-drilling works.
C	Noise						
C1	Are all plant and equipment well maintained and in good operating condition?				√		
C2	Is idle equipment turned off or throttled down?				√		
C3	Are powered mechanical equipment covered or shielded by acoustic materials?				√		The piling head of percussive piling machine was shielded by acoustic enclosure.
C4	Are silenced equipment used where practicable?				√		
C5	Are noise barriers provided to protect Kwu Tung Road NSRs?				√		Installation of noise barrier was observed to be in progress.
C6	Do air compressors have valid noise labels?				√		
C7	Do compressors operate with doors closed?			√			
C8	Major Noise Source(s):	√	Traffic		√		Road traffic on San Tin Highway and Fanling Highway. Pre-drilling, bored piling works, percussive piling.
	√ Construction activities inside of site		Construction activities outside of site				
	Others:						

		N/A or not observed	Yes	No	Remarks / Photo
D	Water Quality				
D1	Is drainage system adequate?		√		
D2	Are there temporary ditches for runoff discharge into appropriate:	Watercourse?	√		
D3		With silt retention pond?	√		
D4		Sediment basin?	√		
D5	Do permanent drainage channels have:	Traps and baffles?	√		
D6	Is groundwater pumped out discharged via sediment traps / tanks?			√	Refer to Note 1.
D7	Are there sediment tanks for settling runoff prior to disposal?		√		
D8	Constructed from pre-formed individual cells?		√		
D9	Adequate capacity?		√		
D10	Free from silt and sediment?		√		
D11	Are there oil interceptors in drainage system?	√			
D12	Oil and grease removed regularly?	√			
D13	Bypass to prevent flushing during periods of heavy rain?	√			
D14	Is drainage system well maintained?			√	Refer to Note 2.
D15	Is exposed earth stabilized after earthworks have been completed?		√		
D16	Are exposed slope surfaces covered (by tarpaulin or other means)?		√		
D17	Are open stockpiles of more than 50 m ³ covered during rainstorm?		√		
D18	Are manholes covered and sealed?		√		
D19	Toilet that connects to foul sewer or chemical toilets provided?		√		
D20	Is debris and rubbish on site collected and disposed of properly?		√		
D21	Is wastewater discharge license available for inspection?		√		
D22	Measures to prevent the washing away of sand/silt to drains?		√		
	<u>Rainy Season</u>				
D23	Sediment control measures inspected and maintained after rainstorms?	√			
D24	Is there any sediment plume observed in nearby water courses?	√			
E	Waste / Chemical Management				
	<u>General Refuse</u>				
E1	Accumulation avoided?		√		
E2	Receptacles (e.g. rubbish bins) available?		√		
E3	Disposed of regularly and properly?		√		Disposed of daily.

		N/A or not observed	Yes	No	Remarks / Photo
Chemical Waste / Waste Oil					
E4	Stored properly in designated area?		√		
E5	Labelled properly?		√		
E6	Disposed of properly?		√		
E7	Trip tickets available for inspection?		√		
Chemical / Fuel Storage Area					
E8	Is storage area bunded?		√		
E9	Adequate bund capacity? (>110% of the largest tank)		√		
E10	Are storage areas provided with locks and located on sealed areas?		√		
Construction Waste					
E11	Reused where practicable?		√		For temporary access road paving.
E12	Disposed of properly?		√		
E13	Are surplus inert materials being reused where practical as an alternative to ordering imported fill material?		√		Stockpiles at N1 storage area for backfilling.
E14	Trip tickets available for inspection?		√		
Excavated Materials					
E15	Appears contaminated? (colour, odour)			√	
E16	If suspected contaminated, appropriate procedures followed?	√			
E17	Relevant license/permit/trip tickets for disposal of construction waste or excavated materials available for inspection?		√		
F Environmental Complaint					
F1	Number of Environmental Complaint Received from	04/11/2005 to 10/11/2005	2		Two complaints were received from EPD on 10 th Nov. 2005.
G General Housekeeping					
G1	Are potential stagnant pools cleared and mosquito breeding prevented?		√		
G2	Are defined boundaries of working areas identified to prevent loss of vegetation?		√		
H Landscape and Visual					
H1	Are retained trees protected by fencing?		√		All trees in the current works areas have been fenced off.
H2	Is the work site confined within site boundaries?		√		
H3	Is damage to surrounding areas avoided?		√		
I Land Contamination					
I1	Is protective equipment (gloves, mask) provided for site staff during exposure to potential contaminated soil/ groundwater?		√		
I2	Is the contaminated soil segregated from the uncontaminated soil?		√		
I3	Are the stockpiles of contaminated soil covered appropriately?		√		

Notes / Issues Recorded On Site:

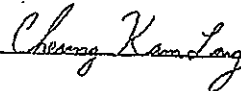
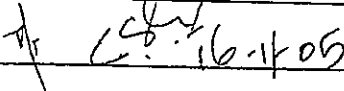

1. Used water generated from pile cap breaking at Bridge K works area was pumped and discharged into EMDG directly without sedimentation.
2. Muddy water pool has been accumulated around the bored piling works areas and on the haul road along San Sham Road.

Notes:

The corrective actions proposed during the previous inspection on 3rd November 2005 have been checked and implemented properly.

Corrective Actions - Mitigation Measures Implemented or Proposed (if any):

1. The Contractor was requested to cease the discharge immediately. They were reminded to ensure that wastewater must be pumped back to either sedimentation basin or sump pit prior to discharge.
2. The Contractor advised that they would raise the road surface level and excavate temporary ditches along the haul road roadside to collect the surface runoff and prevent accumulation of water on the haul road.

Inspected by:	<u>K. L. Cheung</u>	Title:	<u>Environmental Team</u>
Signature:		Date:	<u>11th November 2005</u>
Representative of Contractor:	<u>Jeffrey Tang, Li Chi Shing</u>	Title:	<u>Env. Engineer, Site Superintendent</u>
Signature:		Date:	<u>16 Nov 05</u>
Reviewed and approved by:	<u>Susana Bezy</u>	Title:	<u>Environmental Team Leader</u>
Signature:		Date:	<u>11th November 2005</u>

Site: Contract No. HY/2004/09 - Improvements to San Tin Interchange

Inspection Date:	17 November 2005	Inspected By:	K.L.Cheung, Allen Pang	Time:	13:30
Weather Condition: Sunny					

				N/A or not observed	Yes	No	Remarks / Photo
A	General						
A1	Is the Environmental Permit displayed at the entrances / exits?				√		
B	Air Quality						
B1	Is open burning avoided?				√		
B2	Are completed earthworks sealed as soon as practicable?				√		
B3	Are vehicles and equipment switched off while not in use?				√		
B4	Are plant and equipment well maintained? (i.e. without black smoke from powered plant)				√		
B5	Any remedial action undertaken?			√			
B6	Observable dust source(s):		Wind erosion		√		
	√	Vehicle/ Equipment Movements	Loading/ unloading of materials				
	Others:						
B7	Are unpaved areas watered regularly to avoid dust generation?				√		
B8	Are dusty material covered or regularly watered?				√		
B9	Are dusty materials sprayed prior to loading?				√		
B10	Odorous materials immediately covered and promptly removed?			√			
B11	Is generation of dust avoided during loading/unloading?				√		
B12	Are loaded dump trucks covered appropriately?				√		
B13	Are wheel washing facilities provided at all site exits?				√		
B14	Are there enclosures around the main dust-generating activities?				√		Dust enclosure provided during pre-drilling works.
C	Noise						
C1	Are all plant and equipment well maintained and in good operating condition?				√		
C2	Is idle equipment turned off or throttled down?				√		
C3	Are powered mechanical equipment covered or shielded by acoustic materials?				√		The piling head of percussive piling machine was shielded by acoustic enclosure.
C4	Are silenced equipment used where practicable?				√		
C5	Are noise barriers provided to protect Kwu Tung Road NSRs?				√		Installation of noise barrier was in progress.
C6	Do air compressors have valid noise labels?				√		
C7	Do compressors operate with doors closed?			√			
C8	Major Noise Source(s):	√	Traffic		√		Road traffic on San Tin Highway and Fanling Highway. Pre-drilling, bored piling works, percussive piling.
	√	Construction activities inside of site	Construction activities outside of site				
	Others:						

		N/A or not observed	Yes	No	Remarks / Photo
D	Water Quality				
D1	Is drainage system adequate?		√		
D2	Are there temporary ditches for runoff discharge into appropriate:	Watercourse?	√		
D3		With silt retention pond?	√		
D4	Do permanent drainage channels have:	Sediment basin?	√		
D5		Traps and baffles?	√		
D6	Is groundwater pumped out discharged via sediment traps / tanks?		√		
D7	Are there sediment tanks for settling runoff prior to disposal?		√		
D8	Constructed from pre-formed individual cells?		√		
D9	Adequate capacity?		√		
D10	Free from silt and sediment?		√		
D11	Are there oil interceptors in drainage system?	√			
D12	Oil and grease removed regularly?	√			
D13	Bypass to prevent flushing during periods of heavy rain?	√			
D14	Is drainage system well maintained?		√		
D15	Is exposed earth stabilized after earthworks have been completed?		√		
D16	Are exposed slope surfaces covered (by tarpaulin or other means)?		√		
D17	Are open stockpiles of more than 50 m ³ covered during rainstorm?		√		
D18	Are manholes covered and sealed?		√		
D19	Toilet that connects to foul sewer or chemical toilets provided?		√		
D20	Is debris and rubbish on site collected and disposed of properly?		√		
D21	Is wastewater discharge license available for inspection?		√		
D22	Measures to prevent the washing away of sand/silt to drains?		√		
Rainy Season					
D23	Sediment control measures inspected and maintained after rainstorms?	√			
D24	Is there any sediment plume observed in nearby water courses?	√			
E	Waste / Chemical Management				
General Refuse					
E1	Accumulation avoided?			√	Refer to Note 1
E2	Receptacles (e.g. rubbish bins) available?		√		
E3	Disposed of regularly and properly?		√		Disposed of daily.

		N/A or not observed	Yes	No	Remarks / Photo
Chemical Waste / Waste Oil					
E4	Stored properly in designated area?		√		
E5	Labelled properly?		√		
E6	Disposed of properly?		√		
E7	Trip tickets available for inspection?		√		
Chemical / Fuel Storage Area					
E8	Is storage area bunded?		√		
E9	Adequate bund capacity? (>110% of the largest tank)		√		
E10	Are storage areas provided with locks and located on sealed areas?		√		
Construction Waste					
E11	Reused where practicable?		√		For temporary access road paving.
E12	Disposed of properly?		√		
E13	Are surplus inert materials being reused where practical as an alternative to ordering imported fill material?		√		Stockpiles at N1 storage area for backfilling.
E14	Trip tickets available for inspection?		√		
Excavated Materials					
E15	Appears contaminated? (colour, odour)			√	
E16	If suspected contaminated, appropriate procedures followed?	√			
E17	Relevant license/permit/trip tickets for disposal of construction waste or excavated materials available for inspection?		√		
F Environmental Complaint					
F1	Number of Environmental Complaint Received from	11/11/2005	to	17/11/2005	1 One complaint was received from EPD on 16 th Nov. 2005.
G General Housekeeping					
G1	Are potential stagnant pools cleared and mosquito breeding prevented?		√		
G2	Are defined boundaries of working areas identified to prevent loss of vegetation?		√		
H Landscape and Visual					
H1	Are retained trees protected by fencing?		√		All trees in the current works areas have been fenced off.
H2	Is the work site confined within site boundaries?		√		
H3	Is damage to surrounding areas avoided?		√		
I Land Contamination					
I1	Is protective equipment (gloves, mask) provided for site staff during exposure to potential contaminated soil/ groundwater?		√		
I2	Is the contaminated soil segregated from the uncontaminated soil?		√		
I3	Are the stockpiles of contaminated soil covered appropriately?		√		

Notes / Issues Recorded On Site:


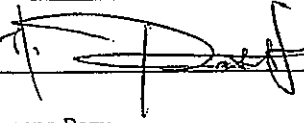
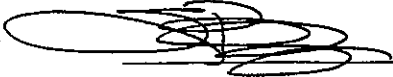
1. Small quantity of refuse (empty plastic bottles, polystyrene food containers, soft drink cans) was found discarded at the N1 Open lay-down Area and Slip Road C Works Area.

Notes:

The corrective actions proposed during the previous inspection on 10th November 2005 have been checked and implemented properly.

Corrective Actions - Mitigation Measures Implemented or Proposed (if any):

1. The Contractor should clean up the refuse immediately, and keep checking the site tidiness. Training of labor for good practice of site tidiness should be considered.

Inspected by:	<u>K. L. Cheung</u>	Title:	<u>Environmental Team</u>
Signature:	<u></u>	Date:	<u>17th November 2005</u>
Representative of Contractor:	<u>Jeffrey Tang, Patrick Lau</u>	Title:	<u>Env. Engineer, Construction Manager</u>
Signature:	<u></u>	Date:	<u>18 NOV 05</u>
Reviewed and approved by:	<u>Susana Bezy</u>	Title:	<u>Environmental Team Leader</u>
Signature:	<u></u>	Date:	<u>18 NOV 05</u>

Site: Contract No. HY/2004/09 - Improvements to San Tin Interchange

Inspection Date:	24 November 2005	Inspected By:	K.L.Cheung, Allen Pang	Time:	14:30
Weather Condition:	Sunny				

				N/A or not observed	Yes	No	Remarks / Photo
A	General						
A1	Is the Environmental Permit displayed at the entrances / exits?				√		
B	Air Quality						
B1	Is open burning avoided?				√		
B2	Are completed earthworks sealed as soon as practicable?				√		
B3	Are vehicles and equipment switched off while not in use?				√		
B4	Are plant and equipment well maintained? (i.e. without black smoke from powered plant)				√		
B5	Any remedial action undertaken?			√			
B6	Observable dust source(s):		Wind erosion		√		
	√	Vehicle/ Equipment Movements	Loading/ unloading of materials				
	Others:						
B7	Are unpaved areas watered regularly to avoid dust generation?				√		
B8	Are dusty material covered or regularly watered?				√		
B9	Are dusty materials sprayed prior to loading?				√		
B10	Odorous materials immediately covered and promptly removed?			√			
B11	Is generation of dust avoided during loading/unloading?				√		
B12	Are loaded dump trucks covered appropriately?				√		
B13	Are wheel washing facilities provided at all site exits?				√		
B14	Are there enclosures around the main dust-generating activities?				√		Dust enclosure provided during pre-drilling works.
C	Noise						
C1	Are all plant and equipment well maintained and in good operating condition?				√		
C2	Is idle equipment turned off or throttled down?				√		
C3	Are powered mechanical equipment covered or shielded by acoustic materials?				√		The piling head of percussive piling machine was shielded by acoustic enclosure.
C4	Are silenced equipment used where practicable?				√		
C5	Are noise barriers provided to protect Kwu Tung Road NSRs?				√		Noise barriers have been installed in front of pier location B9.
C6	Do air compressors have valid noise labels?				√		
C7	Do compressors operate with doors closed?			√			
C8	Major Noise Source(s):		√	Traffic	√		Road traffic on San Tin Highway and Fanling Highway. Pre-bored H-pile, bored piling works, percussive piling.
	√	Construction activities inside of site		Construction activities outside of site			
	Others:						

		N/A or not observed	Yes	No	Remarks / Photo
D	Water Quality				
D1	Is drainage system adequate?		√		
D2	Are there temporary ditches for runoff discharge into appropriate:	Watercourse?	√		
D3		With silt retention pond?	√		
D4	Do permanent drainage channels have:	Sediment basin?	√		
D5		Traps and baffles?	√		
D6	Is groundwater pumped out discharged via sediment traps / tanks?		√		
D7	Are there sediment tanks for settling runoff prior to disposal?		√		
D8	Constructed from pre-formed individual cells?		√		
D9	Adequate capacity?		√		
D10	Free from silt and sediment?		√		
D11	Are there oil interceptors in drainage system?	√			
D12	Oil and grease removed regularly?	√			
D13	Bypass to prevent flushing during periods of heavy rain?	√			
D14	Is drainage system well maintained?			√	Refer to Notes 1 and 2.
D15	Is exposed earth stabilized after earthworks have been completed?		√		
D16	Are exposed slope surfaces covered (by tarpaulin or other means)?		√		
D17	Are open stockpiles of more than 50 m ³ covered during rainstorm?		√		
D18	Are manholes covered and sealed?		√		
D19	Toilet that connects to foul sewer or chemical toilets provided?		√		
D20	Is debris and rubbish on site collected and disposed of properly?		√		
D21	Is wastewater discharge license available for inspection?		√		
D22	Measures to prevent the washing away of sand/silt to drains?		√		
Rainy Season					
D23	Sediment control measures inspected and maintained after rainstorms?	√			
D24	Is there any sediment plume observed in nearby water courses?	√			
E	Waste / Chemical Management				
General Refuse					
E1	Accumulation avoided?		√		
E2	Receptacles (e.g. rubbish bins) available?		√		
E3	Disposed of regularly and properly?		√		Disposed of daily.

		N/A or not observed	Yes	No	Remarks / Photo
Chemical Waste / Waste Oil					
E4	Stored properly in designated area?		√		Refer to Note 3.
E5	Labelled properly?		√		
E6	Disposed of properly?		√		
E7	Trip tickets available for inspection?		√		
Chemical / Fuel Storage Area					
E8	Is storage area bunded?		√		
E9	Adequate bund capacity? (>110% of the largest tank)		√		
E10	Are storage areas provided with locks and located on sealed areas?		√		
Construction Waste					
E11	Reused where practicable?		√		For temporary access road paving.
E12	Disposed of properly?		√		
E13	Are surplus inert materials being reused where practical as an alternative to ordering imported fill material?		√		Stockpiles at N1 storage area for backfilling.
E14	Trip tickets available for inspection?		√		
Excavated Materials					
E15	Appears contaminated? (colour, odour)			√	
E16	If suspected contaminated, appropriate procedures followed?	√			
E17	Relevant license/permit/trip tickets for disposal of construction waste or excavated materials available for inspection?		√		
F Environmental Complaint					
F1	Number of Environmental Complaint Received from	18/11/2005 to 24/11/2005	0		
G General Housekeeping					
G1	Are potential stagnant pools cleared and mosquito breeding prevented?			√	Refer to Note 4.
G2	Are defined boundaries of working areas identified to prevent loss of vegetation?		√		
H Landscape and Visual					
H1	Are retained trees protected by fencing?		√		All trees in the current works areas have been fenced off.
H2	Is the work site confined within site boundaries?		√		
H3	Is damage to surrounding areas avoided?		√		
I Land Contamination					
I1	Is protective equipment (gloves, mask) provided for site staff during exposure to potential contaminated soil/ groundwater?		√		
I2	Is the contaminated soil segregated from the uncontaminated soil?		√		
I3	Are the stockpiles of contaminated soil covered appropriately?		√		

Notes / Issues Recorded On Site:

1. Sediment has deposited at the bottom of U-channel near the entrance to N1 Open Lay-down Area.
2. Sediment has accumulated inside the sandbags barrier at the discharge outlet towards EMDC in N2 Division area.
3. The lock of chemical waste storage area near site office was found broken. Another chemical waste storage area has been set up near Bridge K, however, it is unlocked.
4. Stagnant water pool was observed near the bored-piling works area at Bridge-K.


Notes:

The corrective actions proposed during the previous inspection on 17th November 2005 have been checked and implemented properly.

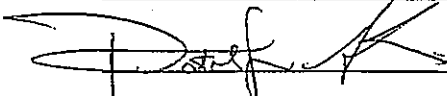
Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

1. The deposited sediment should be cleared regularly.
2. Deposited sediment should be cleared frequently. More sandbags should be provided to prevent overflow.
3. Chemical wastes storage areas should provided with locks.
4. The stagnant pool should be removed promptly.

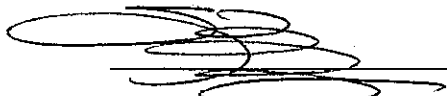
Inspected by: K. L. Cheung Title: Environmental Team

Signature:  Date: 25th November 2005

Representative of Contractor: Patrick Lau, Ken Wong Title: Construction Manager, Senior Env. Engineer

Signature:  Date: 28 Nov 2005

Reviewed and approved by: Susana Bezy Title: Environmental Team Leader

Signature:  Date: 28/11/05

**HY2004/09 Improvements to San Tin Interchange
Notifications of Environmental Quality Limits Exceedances**

Notification No.: 008

Date of Notification: 7th November 2005

Time: 10:00 am

Works Inspected: Data collected from restricted hour noise monitoring on 6th November 05

Monitoring Location: CM2 - Village House near San Tin Highway

Parameter: Noise (Leq 15 min)

Action & Limit Levels

Measured Level:

Time Period	Action Level	Limit Level	Time	CM2*
07:00-23:00 hrs	-	65dB(A)	12:06	68dB(A)

Possible reason for Action or Limit Level Non-compliance:

During the measurement period, no project-related works were observed to be undertaken near this monitoring location and the key noise source was the road traffic from San Tin Highway. Further to discussion with the Contractor and subsequent confirmation from the Resident Engineer, the major construction activities during the time of measurement were being undertaken at the N2 Division area, only two bored piling machines and generators were in operation. To this end, the noise exceedance recorded on 6th November 2005 was found to be caused by the high ambient road traffic noise from San Tin highway and was not to be attributable to project works.


Note * a positive correction of 3dB(A) has been applied to the measured noise level at CM2 according to EPD's guideline.

Actions taken/ to be taken:

As the noise exceedance was not project related, no immediate actions are necessary.

Inspected by : K. L. Cheung

Title : ET – Environmental Consultant



Date : 7th November 2005

Reviewed and

approved by : Susana Bezy

Title : Environmental Team Leader




Date : 7th November 2005

Sent to : RE, Contractor, EPD & IEC

HY2004/09 Improvements to San Tin Interchange Notifications of Environmental Quality Limits Exceedances		Notification No.: 009
Date of Notification: 11 th November 2005	Time: 15:00	
Works Inspected: Visual inspection of water quality on 10 th November 2005		
Monitoring Location: Pile cap at Bridge K Works Area near San Tin Tsuen Road		
Parameter: Water Quality		
Description for Action or Limit Level Non-compliance: During water quality visual inspection on 10 th November, it was observed that wastewater accumulated at the bottom of pile cap at Bridge K Works Area near San Tin Tsuen Road was pumped and discharged into Eastern Main Drainage Channel (EMDC) directly without any sedimentation. This was not in compliance with the requirements mentioned in EIA Report, EM&A Manual and Drainage Management Plan (DMP). The inspection result is considered to be unsatisfactory.		
Actions taken/ to be taken: The Contractor was asked to cease the discharge immediately. They were reminded to divert water to sedimentation basin before discharge to EMDC following requirements of DMP.		

Inspected by : K. L. Cheung

Title : ET - Environmental Consultant



Date : 11th November 2005

Reviewed and approved by :

Susana Bezy

Title : Environmental Team Leader



Date : 11/11/05

Sent to : RE, Contractor, EPD & IEC

DO NOT SCALE DRAWINGS. REFER TO ALL DIMENSIONS ON SITE

Legend:

Works Boundary

NO.	DESCRIPTION	DATE	BY	CHECKED

香港路政署
Highways Department
Works Division

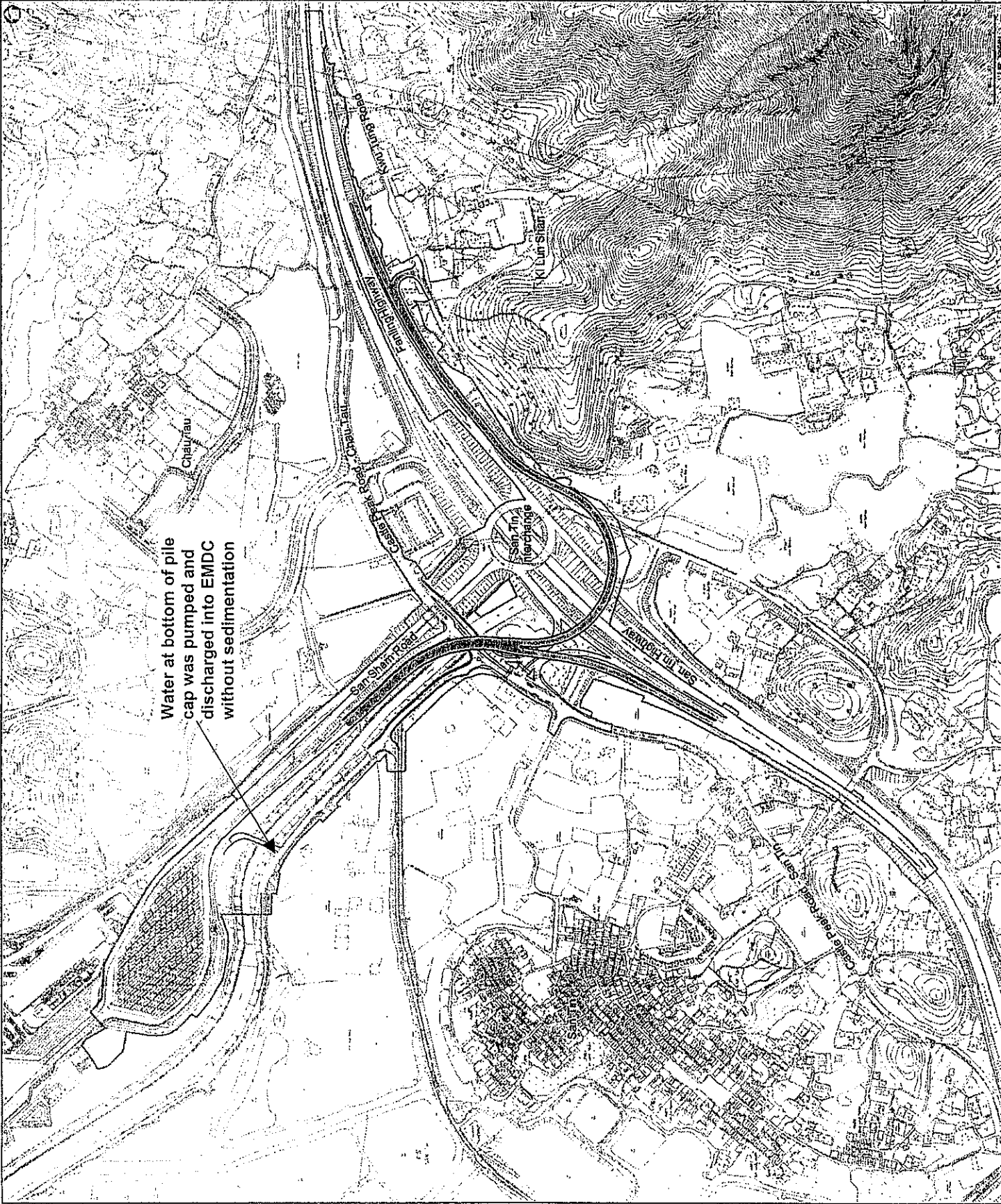
怡和建築工程有限公司
CHEE HO CONSTRUCTION & ENGINEERING CO. LTD
ATKINS
香港怡和建築有限公司
Atkins
怡和建築有限公司

Contract No. HY/2004/09
Improvements to San Tin Interchange

PROJECT PLAN

DATE	SCALE	NO.	BY	CHECKED
11/03/04	1:1000			
11/03/04				
11/03/04				

FIGURE 1



Notification of Exceedance No. 009

PRINTED BY: 01/05/2005 10:26 AM
PROJECT: HY/2004/09

**HY2004/09 Improvements to San Tin Interchange
Notifications of Environmental Quality Limits Exceedances**

Notification No.: 010

Date of Notification: 14th November 2005

Time: 11:00 am

Works Inspected: Data collected from restricted hour noise monitoring on 13th November 2005

Monitoring Location: CM2 - Village House near San Tin Highway

Parameter: Noise (Leq 15 min)

Action & Limit Levels

Measured Level:

Time Period	Action Level	Limit Level	Time	CM2*
07:00-23:00 hrs	-	65dB(A)	10:17	68dB(A)

Possible reason for Action or Limit Level Non-compliance:

During the measurement period, no project-related works were observed to be undertaken near this monitoring location and the key noise source was the road traffic from San Tin Highway. Further to discussion with the Contractor and subsequent confirmation from the Resident Engineer, the major construction activities during the time of measurement were being undertaken at the N2 Division Bridge K works area which is over 300m away, and only two bored piling machines and generators were in operation. To this end, the noise exceedance recorded on 13th November 2005 was found to have been caused by the high ambient road traffic noise from San Tin highway and was not to be attributable to project works.


Note * a positive correction of 3dB(A) has been applied to the measured noise level at CM2 according to EPD's guideline.

Actions taken/ to be taken:

As the noise exceedance was not project related, no immediate actions are necessary.

Inspected by : K. L. Cheung

Title : Environmental Consultant



Date : 14th November 2005

Reviewed and

approved by : Susana Bezy

Title : Environmental Team Leader




Date : 14th November 2005

Sent to : RE, Contractor, EPD & IEC

HY2004/09 Improvements to San Tin Interchange Notifications of Environmental Quality Limits Exceedances			Notification No.: 011	
Date of Notification: 21 st November 2005		Time: 10:00 am		
Works Inspected: Data collected from restricted hour noise monitoring on Sunday, 20 th November 2005				
Monitoring Location: CM2 - Village House near San Tin Highway				
Parameter: Noise (Leq 15 min)				
Action & Limit Levels			Measured Level:	
Time Period	Action Level	Limit Level	Time	CM2 *
07:00-23:00 hrs	-	65 dB(A)	13:38	68 dB(A)
Possible reason for Action or Limit Level Non-compliance:				
<p>During the measurement period, no project-related works were observed to be undertaken near this monitoring location and the key noise source was the road traffic from San Tin Highway. Further to discussion with the Contractor and subsequent confirmation from the Resident Engineer, the major construction activities during the time of measurement were the operation of two bored piling machines and generators at the N2 Division over 300m away from CM2. To this end, the noise exceedance recorded on 20th November 2005 was found to have been caused by the high ambient road traffic noise from San Tin highway and was not to be attributable to project works.</p> <p>Note * A positive correction of 3dB(A) has been applied to the measured noise level at CM2 according to EPD's guideline.</p>				
Actions taken/ to be taken:				
As the noise exceedance was not project related, no immediate actions are necessary.				

Inspected by : K. L. Cheung Title : Environmental Consultant
Chung Kam Long Date : 21st November 2005

Reviewed and approved by : Susana Bezy Title : Environmental Team Leader
 Date : 21st November 2005

Sent to : RE, Contractor, EPD & IEC

**HY2004/09 Improvements to San Tin Interchange
Notifications of Environmental Quality Limits Exceedances**

Notification No.: 012

Date of Notification: 28th November 2005

Time: 14:00

Works Inspected: Data collected from restricted hour noise monitoring on 27th November 2005

Monitoring Location: CM2 - Village House near San Tin Highway

Parameter: Noise (Leq 15 min)

Action & Limit Levels

Measured Level:

Time Period	Action Level	Limit Level	Time	CM2 *
07:00-23:00 hrs	-	65 dB(A)	10:38	68 dB(A)

Possible reason for Action or Limit Level Non-compliance:

During the measurement period, no project-related works were observed to be undertaken near this monitoring location and the key noise source was the road traffic from San Tin Highway. Further to discussion with the Contractor and subsequent confirmation from the Resident Engineer, the major construction activities during the time of measurement were the operation of two bored piling machines and generators at the N2 Division over 300m away from CM2. To this end, the noise exceedance recorded on 27th November 2005 was found to have been caused by the high ambient road traffic noise from San Tin highway and was not to be attributable to project works.

Note * A positive correction of 3dB(A) has been applied to the measured noise level at CM2 according to EPD's guideline.

Actions taken/ to be taken:

As the noise exceedance was not project related, no immediate actions are necessary.

Inspected by : K. L. Cheung

Title : Environmental Consultant

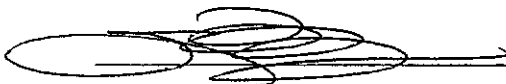


Date : 28th November 2005

Reviewed and
approved by :

Susana Bezy

Title : Environmental Team Leader



Date : 28th November 2005

Sent to : RE, Contractor, EPD & IEC

Action and Limit Levels for Impact Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours	When one documented complaint is received	75 dB(A) ($L_{eq(30 \text{ min})}$)
19:00 – 23:00 hours 23:00 – 07:00 hours of the next day	Following Construction Noise Permit conditions	

Action and Limit Levels for Air Quality Monitoring

Monitoring Station ID	1-Hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level
AM1	357	500
AM2	361	

Complaint Received

Date: 10 November 2005
Time: 18:40
By: John Chung (EPD)
Tel: 2158 5852

Complainant

Name: Undisclosed
Tel: -
Address: -

Complaint

Date of complaint: 28 October 2005
Time of complaint: 12:10
Media: ~~Dust~~ Noise Water Other
Description: Soil / muddy water discharged at San Tin Tsuen Road, Yuen Long

Investigation Results

IEC notified on: 10 November 2005
Investigation conducted on: 11 November 2005
Complaint due to Project works: ~~Yes~~ / No / Unknown

Result of investigation

The Contractor was immediately notified upon receipt of the complaint and was asked about the situation. The Contractor was requested to investigate all works areas with respect to the wastewater / surface runoff control.

The investigation found that San Tin Tsuen Road and the surrounding area appeared to be dry. The active works area on San Tin Tsuen Road was at the Bridge K only. Bored piling for Bridge K pillar on the San Tin Tsuen Road side was completed on 20th October 2005 and it was followed by the pile cap construction. A sedimentation tank was observed to be present at this works area for the water collected from the piling construction to be pumped to the sedimentation tank prior to discharge. Additionally, the piling area has also been surrounded by sandbags to control runoff. No muddy water was seen to be discharged on to San Tin Tsuen Road.

The ET inspects the drainage aspects of the site three times a week. An inspection was undertaken on the 28th October 2005 and no muddy water discharge was seen to be discharged at the San Tin Tsuen Road works area.

Recommendations / mitigation measures / actions

Based on the investigation findings, no muddy water discharge has been observed on San Tin Tsuen Road near the Bridge K works area. The Contractor is not aware of their staff undertaking this type of discharge. As such, the investigation cannot conclude if the complaint is related to the contractor's works. However, the Contractor and site staff shall closely monitor their site practice in controlling the wastewater generated from the pile cap construction works and ensure that it is pumped to the sedimentation tank prior to discharge. The ET will also continue regularly inspect of this area.

Reviewed by : Susana Bezy

Title : Environmental Team Leader

Signature : 

Date : 11 November 2005

Copied to: ER (Mr. Bonny Huang), Contractor (John Yip), IEC (Freeman Cheung)

Complaint Received

Date: 10 November 2005
Time: 18:40
By: John Chung (EPD)
Tel: 2158 5852

Complainant

Name: Undisclosed
Tel: -
Address: -

Complaint

Date of complaint: 28 October 2005
Time of complaint: 14:39
Media: Dust Noise Water Other
Description: Soil / muddy wheel washing water discharged at the site entrance junction between the site haul road along San Sham Road and Castle Peak Road

Investigation Results

IEC notified on: 10 November 2005
Investigation conducted on: 11 November 2005
Complaint due to Project works: Yes / ~~No~~ / ~~Unknown~~

Result of investigation

The Contractor was immediately notified upon receipt of the complaint and was asked to investigate all works areas with respect to the wastewater / surface runoff control.

Based on our investigation on the 11 November 2005, no direct discharge at the location in question was observed. The wheel washing facility has been provided at the site entrance to the haul road to Works Area Slip Road E. However, the wheel washing facility does not appear to be effective, since the construction vehicles appear to be bringing muddy wheel washing water on to Castle Peak Road after exiting the site.

Recommendations / mitigation measures / actions

The Contractor was advised to improve the wheel-washing facility at the site entrance to minimize deposition of wheel-washing water on to public road. The Contractor should install a bund or pave with backfall at the site entrance to prevent the tracking of muddy water on to the public road. All wheel-washing water should be diverted to the site drainage system. In addition, the Contractor should ensure that all construction vehicles are thoroughly clean before they leave the site to prevent the site runoff from entering the public road (Castle Peak Road).

Reviewed by : Susana Bezy

Title : Environmental Team Leader

Signature  _____

Date : 11 November 2005

Copied to: ER (Mr. Bonny Huang), Contractor (John Yip), IEC (Freeman Cheung)

Complaint Received

Date: 16 November 2005
Time: 16:08
By: John Chung (EPD)
Tel: 2158 5852

Complainant

Name: Undisclosed
Tel: -
Address: -

Complaint

Date of complaint: 11 November 2005
Time of complaint: 10:06
Media: Dust ~~Noise~~ Water ~~Other~~
Description: Construction dust emitted and muddy water overflowed to road at the site entrance junction between the site haul road along San Sham Road and Castle Peak Road.

Investigation Results

IEC notified on: 16 November 2005
Investigation conducted on: 17 November 2005
Complaint due to Project works: Water: Yes / ~~No~~ / ~~Unknown~~
Dust: ~~Yes~~ / No / ~~Unknown~~

Result of investigation

The Contractor was immediately notified upon receipt of the complaint and was asked to investigate all works areas with respect to the surface runoff and construction dust control. The ET undertook complaint investigation on the 17 November 2005.

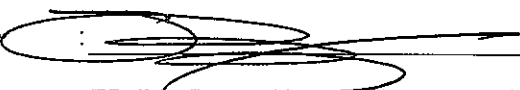
- (i) Water: Based on the ET's investigation, no muddy water overflow at the location in question was observed. Wheel washing facility has been provided at the site exit. After wheel washing, vehicles would travel a short distance (approximately 10m) of paved haul road before exiting to Castle Peak Road. Wheel washing water was seen to be flowing back within the site area, although minor wheel trails (of water marks) were found on road near the exit point.
- (ii) Dust: Site haul road was seen to have been watered regularly. Dump trucks have been provided with covers. Stockpiles have been seen to be covered with tarpaulin. No specific dust emissions were observed.

Recommendations / mitigation measures / actions

- (i) Water: The Contractor was advised to install a bund or pave with backfall at the site exit point to minimize the water tracking on to the public road. The Contractor should also ensure that all construction vehicles are thoroughly clean before they leave the site to prevent tracking of muddy water on to public road (Castle Peak Road).
- (ii) Dust: The Contractor shall continue the implementation of dust control measures as required under the EM&A Manual.

Reviewed by : Susana Bezy

Title : Environmental Team Leader

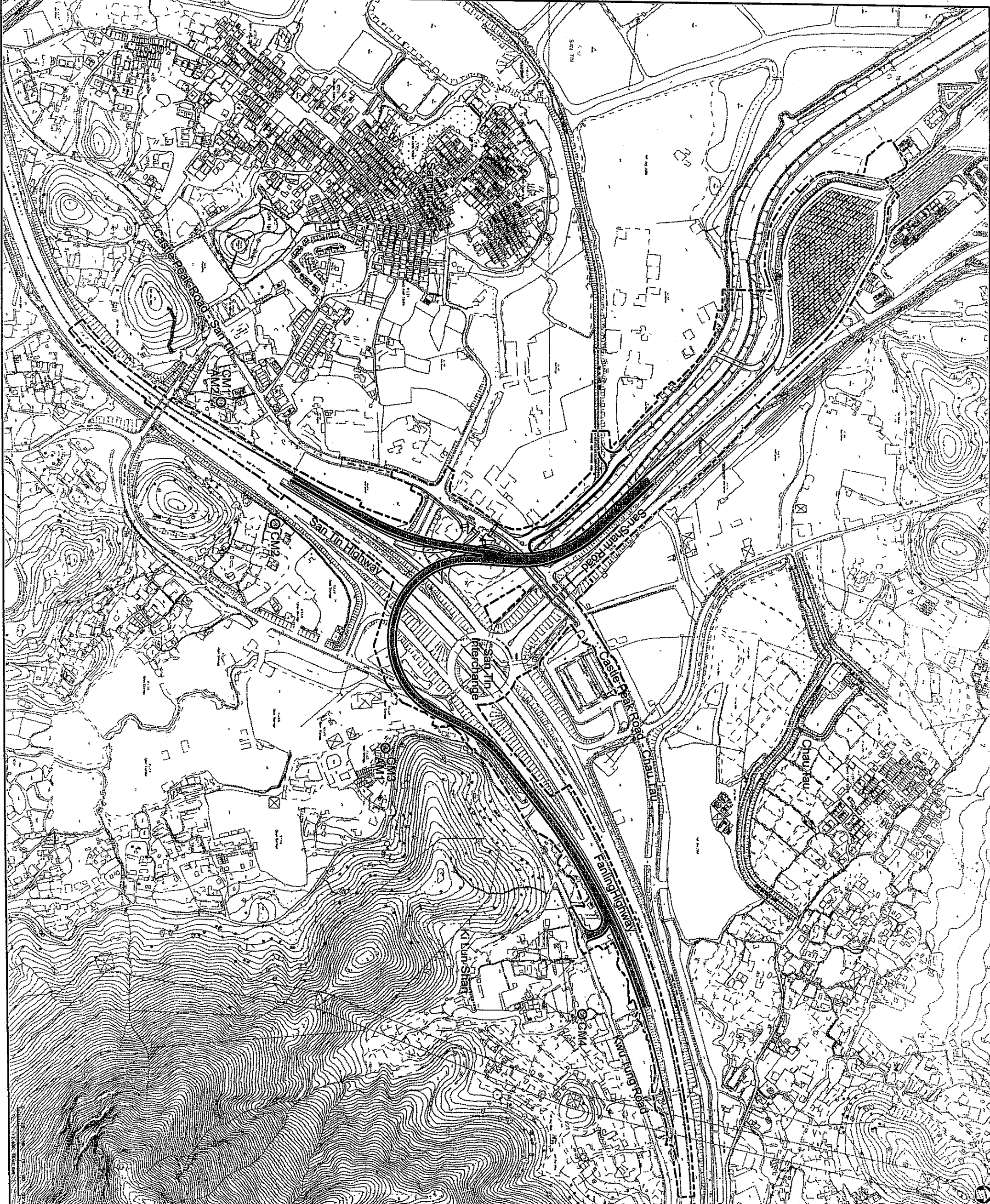
Signature : 

Date : 17 November 2005

Copied to: ER (Mr. Bonny Huang), Contractor (John Yip), IEC (Freeman Cheung)

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

Reporting Period	No. of Complaints Received	No. of Notifications of Summons Received	No. of Successful Prosecutions
June 2005	0	0	0
July 2005	0	0	0
August 2005	0	0	0
September 2005	0	0	0
October 2005	0	0	0
November 2005	3	0	0
Total Amount	3	0	0



DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE

- Legend:**
- CM1 Noise Monitoring Station
 - AM1 Air Quality Monitoring Station
 - Works Boundary

NO.	DESCRIPTION	BY	DATE	CHKD	APPR

路政署
 Highways Department
 Works Division

俊和建築工程有限公司
 CHUI WO CONSTRUCTION & ENGINEERING CO., LTD.
 俊和建築有限公司

Contract No. HY/2004/09
 Improvements to San Tin Interchange

SITE PLAN AND NOISE AND AIR QUALITY MONITORING STATIONS

FOR CONSTRUCTION

DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

FIGURE 1