

ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
Preliminaries														
Project Dates														
01R000002	Tender Issue Date	0	0	26JUN07A		26JUN07A		2						
01R000004	Tender Closing Date	0	0	05OCT07A		05OCT07A		2						
01R000006	Letter of Acceptance Issued Date	0	0	14DEC07A		14DEC07A		2						
01R000008	Contract Commencement Date	0	0	28DEC07A		28DEC07A		2						
01R000010	Completion of Section 1 of the Works	0	0		07DEC12		18JAN13	2	-462					
01R000012	Completion of Section 2 of the Works	0	0		22MAR12		22MAR12	2	-239					
01R000014	Completion of Section 3 of the Works	0	0		23MAR12		23MAR12	2	-240					
01R000016	Completion of Section 4 of the Works	0	0		04FEB12		04FEB12	2	-192					
01R000018	Completion of Section 5 of the Works	0	0		07DEC12		18JAN13	2	-485					
01R000020	Completion of Section 6 of the Works	0	0		27JUL11		27JUL11	2	0					
01R000022	Completion of Section 7 of the Works	0	0		07DEC13		18JAN14	2	-462					
Possession of Area														
01R00A0102	Possession Portion A - 90d of DOC	0	0	27FEB08A		27FEB08A		2						
01R00A0104	Handover of Section 1 of Works at Portion A	0	0		22MAR12		22MAR12	2	-239					
01R00B0102	Possession of Portion B - 90d of DOC	0	0	07MAR08A		07MAR08A		2						
01R00B0104	Handover of Portion B	0	0		23MAR12		23MAR12	2	-240					
01R00C0102	Possession of Portion C - 90d of DOC	0	0	26MAR08A		26MAR08A		2						
01R00C0104	Handover of Portion C	0	0		04FEB12		04FEB12	2	-192					
01R00D0102	Possession of Portion D on DOC	0	0	28DEC07A		28DEC07A		2						
01R00D0104	Handover of Portion D	0	0		07DEC12		18JAN13	2	-485					
01R00E0102	Possession of Portion E - 650d of DOC	0	0	07OCT09		07OCT09		2	0					
01R00E0104	Handover of Portion E	0	0		07DEC12		18JAN13	2	-462					
01R00F0102	Possession of Portion F on DOC	0	0	28DEC07A		28DEC07A		2						
01R00F0104	Handover of Portion F	0	0		07DEC12		18JAN13	2	-462					
01R00G0102	Possession of Portion G - 700d of DOC	0	0	26NOV09		26NOV09		2	0					
01R00G0104	Handover of Portion G	0	0		11MAR11		11MAR11	2	175					
01R00I0102	Possession of Portion I on DOC	0	0	28DEC07A		28DEC07A		2						
01R00I0104	Handover of Portion I	0	0		07DEC12		18JAN13	2	-462					
01R00J0102	Possession of Portion J	0	0	15MAR10		15MAR10		2	-268					
01R00J0104	Handover of Portion J	0	0		03SEP10		03SEP10	2	0					
01R0H10102	Possession of Portion H1 on DOC	0	0	28DEC07A		28DEC07A		2						
01R0H10104	Handover of Portion H1	0	0		30DEC13		10FEB14	2	0					
01R0H20102	Possession of Portion H2 - 300d of DOC	0	0	04NOV08A		04NOV08A		2						

Start Date: 29JUN07
 Finish Date: 30DEC13
 Data Date: 28MAY09
 Run Date: 22OCT09 10:37

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AD04 **Maeda-CREC-SELI JV** Sheet 1 of 58
CONTRACT NO. DC/2007/12
Design and Construction of
Tsuen Wan Drainage Tunnel
Addendum to Works Programme "WP04"

Date	Revision	Checked	Approved
22JUN09	Works Program Revision "WP02"		
10AUG09	Works Program Revision "WP3D"		
04SEP09	WP3D-TBM Halt Speed at WSD Tunnel#3		
07OCT09	WP3E		
22OCT09	WP04		

ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
01R0H20104	Handover of Portion H2	0	0		30DEC13		10FEB14	2	0						
Section of Works - DOP to Completion															
01R1000202	S1-Works in Portions A to F except works in S2-7	1,308	1,308	28DEC07A	07DEC12	28DEC07A	18JAN13	2	-462						
01R1000204	S1-Maintenance Period (365 days)	365	365	08DEC12	07DEC13	19JAN13	18JAN14	2	-462						
01R20A0206	S2-Slope Stabilization works within Portion A	1,247	1,247	27FEB08A	22MAR12	27FEB08A	22MAR12	2	-239						
01R20A0208	S2-Maintenance Period (365 days)	365	365	23MAR12	22MAR13	23MAR12	22MAR13	2	-202						
01R30B0210	S3-Slope Stabilization works within Portion B	1,238	1,238	07MAR08A	23MAR12	07MAR08A	23MAR12	2	-240						
01R30B0212	S3-Maintenance Period (365 days)	365	365	24MAR12	23MAR13	24MAR12	23MAR13	2	-203						
01R40C0214	S4-Slope Stabilization works within Portion C	1,219	1,219	26MAR08A	04FEB12	26MAR08A	04FEB12	2	-192						
01R40C0216	S4-Maintenance Period (365 days)	365	365	05FEB12	03FEB13	05FEB12	03FEB13	2	-155						
01R50D0218	S5-Slope Stabilization works within Portion D	1,308	1,308	28DEC07A	07DEC12	28DEC07A	18JAN13	2	-485						
01R50D0220	S5-Maintenance Period (365 days)	365	365	08DEC12	07DEC13	19JAN13	18JAN14	2	-462						
01R60G0222	S6-Works within Portion G	609	609	26NOV09	27JUL11	26NOV09	27JUL11	2	0						
01R60G0224	S6-Maintenance Period (365 days)	365	365	28JUL11	26JUL12	28JUL11	26JUL12	2	37						
01R7000226	S7-Landscape softworks & establishment works	1,673	1,673	28DEC07A	30NOV13	28DEC07A	11JAN14	2	-455						
01R7000228	S7-Maintenance Period (30 days)	30	30	01DEC13	30DEC13	12JAN14	10FEB14	2	-455						
Facilities for the SO as per ER 12															
01R0000302	Provide temporary accommodation	7	7	28DEC07A	15JAN08A	28DEC07A	15JAN08A	2							
01R0000304	Design the SO's principle office	95	95	28DEC07A	28AUG08A	28DEC07A	28AUG08A	2							
01R0000305	Erect Hoarding/Signboard/Gate/Fencing	35	35	28MAR08A	16MAR09A	28MAR08A	16MAR09A	1							
01R0000306	Erect SO's principle office in Portion H1/H2	100	100	19MAY08A	13SEP08A	19MAY08A	13SEP08A	1							
01R0000308	Provide secondary offices, directed by SO	64	64	14SEP08A	13JUN09	14SEP08A	13JUN09	2	276						
01R0000310	Provide transport for the SO as per App. ER,M	90	90	28DEC07A	02MAY08A	28DEC07A	02MAY08A	2							
01R0000311	Provide survey equipments as per App. ER,M	30	30	28DEC07A	19AUG08A	28DEC07A	19AUG08A	2							
01R0000314	Maintain & Service the Principle Office	1,539	1,539	14SEP08A	30NOV13	14SEP08A	11JAN14	2	0						
01R0000316	Maintain & Service the Secondary Office	1,495	1,495	28OCT08A	30NOV13	28OCT08A	11JAN14	2	0						
01R0000318	Maintain & Service the transportation	1,785	1,785	12JAN08A	30NOV13	12JAN08A	11JAN14	2	0						
01R0000319	Maintain & Service the survey equipments	1,748	1,748	18FEB08A	30NOV13	18FEB08A	11JAN14	2	0						
01R0000372	Demolish & removal of Principle Office	30	30	01DEC13	30DEC13	12JAN14	10FEB14	2	0						
Contractor's Accommodation as per ER.B															
01R0001402	Design Contractor's main office	30	30	01FEB08A	19MAY08A	01FEB08A	19MAY08A	2							
01R0001406	Maintain & service Contractor's office	1,597	1,597	18JUL08A	30NOV13	18JUL08A	11JAN14	2	0						
01R0001408	Demolish & removal of Contractor's main office	30	30	01DEC13	30DEC13	12JAN14	10FEB14	2	0						
01R000141	Erect Contractor's main office in Portion H1	50*	50*	19MAY08A	17JUL08A	19MAY08A	17JUL08A	1							
01R0001412	Construct base slab	10	10	19MAY08A	30MAY08A	19MAY08A	30MAY08A	1							
01R0001413	Install steel frames	12	12	31MAY08A	21JUN08A	31MAY08A	21JUN08A	1							
01R0001414	Install wall/roof panels, windows etc	6	6	23JUN08A	30JUN08A	23JUN08A	30JUN08A	1							
01R0001415	Install & E& M/ceiling/floor panels	8	8	02JUL08A	12JUL08A	02JUL08A	12JUL08A	1							
01R0001416	Site clearance	1	1	14JUL08A	17JUL08A	14JUL08A	17JUL08A	1							

ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	2009
01R0001417	Install furnitures/internet & move in	2	2	14JUL08A	17JUL08A	14JUL08A	17JUL08A	1
Works Programme & Monthly Report as per SCC 27								
01R0000502	Prepare/Submit draft Works Programme	7	7	14DEC07A	21DEC07A	14DEC07A	21DEC07A	2
01R0000504	SO's review/comment on draft Works Programme	14	14	22DEC07A	23JAN08A	22DEC07A	23JAN08A	2
01R0000505	Prepare/Submit draft Works Programme Rev. 1	28	28	24JAN08A	15FEB08A	24JAN08A	15FEB08A	2
01R0000506	Prepare/Submit 1st 3-Month Rolling Programme	14	14	14DEC07A	03JAN08A	14DEC07A	03JAN08A	2
01R0000507	SO's approval on draft Works Programme	14	14	16FEB08A	28MAR08A	16FEB08A	28MAR08A	2
01R0000508	Submit Revised Works Programme	14	14	28AUG08A	30SEP08A	28AUG08A	30SEP08A	2
01R0000510	SO's Approval of Revised Works Programme	14	14	02OCT08A	28FEB09A	02OCT08A	28FEB09A	2
01R0000512	Monthly Update for all Programme	1,779	1,779	18JAN08A	31DEC12	18JAN08A	18JAN13	2
01R0000514	Contractor's Monthly Progress Report	1,775	1,775	22JAN08A	31DEC12	22JAN08A	18JAN13	2
Safety Plan as per SCC 35								
01R0000602	Submit draft Safety Plan	14	14	14DEC07A	29DEC07A	14DEC07A	29DEC07A	2
01R0000604	Hold an ad hoc meeting with RE on Safety Plan	7	7	31DEC07A	09JAN08A	31DEC07A	09JAN08A	2
01R0000606	Submit 6 copies of the Safety Plan	35	35	14DEC07A	26FEB08A	14DEC07A	26FEB08A	2
01R0000608	Submit updated safety organizza. chart monthly	1,747	1,747	20MAR08A	31DEC12	20MAR08A	18JAN13	2
17R0000602	Fulfill all relevant safety obligation	1,830	1,830	28DEC07A	31DEC12	28DEC07A	18JAN13	2
Contractor's All Insurances								
01R0000704	Submit documents for all insurances are effected	21	21	14DEC07A	02SEP08A	14DEC07A	02SEP08A	2
Quality System as per ER 9.3								
01R0000802	Appoint a Quality Manager	14	14	28DEC07A	02JAN08A	28DEC07A	02JAN08A	2
01R0000804	Submit proposed Quality System for SO's consent	28	28	14DEC07A	22JAN08A	14DEC07A	22JAN08A	2
01R0000806	Submit QSSP for approval of the SO	28	28	28DEC07A	14MAR08A	28DEC07A	14MAR08A	2
01R0000808	Maintain & update Quality System	1,802	1,802	25JAN08A	31DEC12	25JAN08A	18JAN13	2
Environment								
01R0000902	Nominate Environmental Officer	14	14	14DEC07A	21DEC07A	14DEC07A	21DEC07A	2
01R0000903	Establish a billing account for disposal	21	21	14DEC07A	02JAN08A	14DEC07A	02JAN08A	2
01R0000904	Submit draft EMP	21	21	14DEC07A	02JAN08A	14DEC07A	02JAN08A	2
01R0000906	Revise draft EMP within 7 days of SO's notice	14	14	04JAN08A	21FEB08A	04JAN08A	21FEB08A	2
01R0000908	Submit final version of EMP	45	45	14DEC07A	21FEB08A	14DEC07A	21FEB08A	2
01R0000910	Review/update/submit EMP monthly	1,769	1,769	28JAN08A	31DEC12	28JAN08A	18JAN13	2
01R0000912	Employ IET	21	21	14DEC07A	02JAN08A	14DEC07A	02JAN08A	2
01R0000914	Submit Baseline Monitoring Plan	21	21	28DEC07A	18JAN08A	28DEC07A	18JAN08A	2
01R0000915	Seek for EPD's Agreement on WQML & schedule	21	21	18JAN08A	31JAN08A	18JAN08A	31JAN08A	2
01R0000916	Carry out baseline monitoring	37	37	11FEB08A	20MAR08A	11FEB08A	20MAR08A	2
01R0000918	Prepare/submit reports for baseline monitoring	20	20	21MAR08A	28MAR08A	21MAR08A	28MAR08A	2
01R0000920	Impact monitoring & reporting	1,705	1,705	01APR08A	31DEC12	01APR08A	18JAN13	2

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
17R0000902	Fulfill all relevant environmental obligation	1,800	1,800	28DEC07A	31DEC12	28DEC07A	18JAN13	2	364						
Excavation Permit/Utilities per SCC 54 & SCC 83															
01R0001002	Nominate IIUMS co-ordinator	7	7	14DEC07A	15JAN08A	14DEC07A	15JAN08A	2							
01R0001004	SO approve IIUMS co-ordinator	14	14	16JAN08A	29FEB08A	16JAN08A	29FEB08A	2							
01R0001006	Submit brand name of UGS detection equipment	7	7	28DEC07A	18FEB08A	28DEC07A	18FEB08A	2							
01R0001008	Utilities detection & report to the SO	21	21	29FEB08A	05APR08A	29FEB08A	05APR08A	2							
01R0001010	Liaison with UUs	21	21	04JAN08A	29FEB08A	04JAN08A	29FEB08A	2							
01R0001012	Apply XP for site entrance construction	7	7	21JAN08A	08MAR08A	21JAN08A	08MAR08A	2							
01R0001014	HyD process XP for site entrance construction	20	20	10MAR08A	28MAY08A	10MAR08A	28MAY08A	2							
01R0001016	HyD issue XP for site entrance construction	0	0		28MAY08A		28MAY08A	2							
01R0001018	Apply XP for GI works at I-1 & I-2	1	1	22APR08A	20MAY08A	22APR08A	20MAY08A	2							
01R0001020	HyD process XP for GI works at I-1 & I-2	30	30	23APR08A	26SEP08A	23APR08A	26SEP08A	2							
01R0001022	HyD issue XP for GI works at I-1 & I-2	0	0		26SEP08A		26SEP08A	1							
01R0001024	Apply XP for trial grout at Fault F1	1	1	22APR08A	20MAY08A	22APR08A	20MAY08A	2							
01R0001026	HyD process XP for trial grout at Fault F1	30	30	23APR08A	22JUL08A	23APR08A	22JUL08A	2							
01R0001028	HyD issue XP for trial grout at Fault F1	0	0		22JUL08A		22JUL08A	1							
Pre-construction Condition Survey															
Preliminaries															
01R0001102	Appoint a Qualified Structural Engineer	30	30	28DEC07A	19MAR08A	28DEC07A	19MAR08A	2							
01R0001104	Submit nos. & extent of the affected EBS	30	30	28DEC07A	19MAR08A	28DEC07A	19MAR08A	2							
PCS Stage 1 between I-1 & I-2															
01R0001118	Carry out stg 1 PCS between I-1 & I-2	6	6	22APR08A	23APR08A	22APR08A	23APR08A	2							
01R0001120	Prepare/submit reports for stg 1 PCS bet I-1&I-2	60	60	24APR08A	22SEP08A	24APR08A	22SEP08A	2							
01R0001122	Review/accept reports for stg 1 PCS bet I-1&I-2	60	60	31MAY08A	20JAN09A	31MAY08A	20JAN09A	2							
PCS Stage 1 between I-2 & I-3															
01R0001130	Carry out stg 1 PCS between I-2 & I-3	5	5	25MAR08A	30APR08A	25MAR08A	30APR08A	2							
01R0001132	Prepare/submit reports for stg 1 PCS bet I-2&I-3	60	60	24APR08A	22SEP08A	24APR08A	22SEP08A	2							
01R0001134	Review/accept reports for stg 1 PCS bet I-2&I-3	60	60	24MAY08A	04FEB09A	24MAY08A	04FEB09A	2							
PCS Stage 1 between I-3 & O-1															
01R0001142	Carry out stg 1 PCS between I-3 & O-1	5	5	25MAR08A	26MAR08A	25MAR08A	26MAR08A	2							
01R0001144	Prepare/submit reports for stg 1 PCS bet I-3&O-1	60	60	26MAR08A	11SEP08A	26MAR08A	11SEP08A	2							
01R0001146	Review/accept reports for stg 1 PCS bet I-3&O-1	60	60	31MAY08A	04FEB09A	31MAY08A	04FEB09A	2							
PCS Stage 1 at vicinity of O-1															
01R0001106	Carry out stg 1 PCS at vicinity of O-1	5	5	25MAR08A	29MAR08A	25MAR08A	29MAR08A	2							
01R0001108	Prepare/submit reports for stg 1 PCS at O-1	60	60	31MAR08A	10SEP08A	31MAR08A	10SEP08A	2							
01R0001110	Review/accept reports for stg 1 PCS at O-1	60	60	27MAY08A	09FEB09A	27MAY08A	09FEB09A	2							
PCS Stage 2 between I-1 & I-2															
01R0001124	Carry out stg 2 PCS between I-1 & I-2	5	5	22APR08A	02JUN08A	22APR08A	02JUN08A	2							
01R0001126	Prepare/submit reports for stg 2 PCS bet I-1&I-2	60	60	24APR08A	10JUN08A	24APR08A	10JUN08A	2							
01R0001128	Review/accept reports for stg 2 PCS bet I-1&I-2	60	60	11JUN08A	09FEB09A	11JUN08A	09FEB09A	2							

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01R0001136

01R0001156 Review/accept reports for EBS at I-1

01R0001158 Prepare/submit reports for EBS at I-2

01R0001170

01R0001172

01R0001602 Appoint Surveyors

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PCRA for Works at on A (I-1)

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
Physical Models & Other Material Display														
01R0002302	Prepare/submit a physical models	255	255	15FEB08A	27NOV08A	15FEB08A	27NOV08A	2						
01R0002304	Prepare/submit a 3-D animation model	308	308	15FEB08A	27FEB09A	15FEB08A	27FEB09A	2						
Internet Website as per ER 4.4.7														
01R0002402	Propose the design of web page	30	30	28DEC07A	09FEB08A	28DEC07A	09FEB08A	2						
01R0002404	Produce the web page for approval of SO	211	211	10MAR08A	19FEB09A	10MAR08A	19FEB09A	2						
01R0002406	SO's approval of web page	30	30	02JUN08A	24FEB09A	02JUN08A	24FEB09A	2						
01R0002408	Submit updated web pages monthly	1,433	1,433	25FEB09A	30NOV13	25FEB09A	11JAN14	2						
Schedule of Milestones for Cost Centre No. 1R														
01R0002501	1R 1; On provision of SO's Accommodation	0	0		13SEP08A		13SEP08A	2						
01R0002502	1R 2; On providing documents of effected CWI	0	0		03JAN08A		03JAN08A	2						
01R0002503	1R 3; On providing documents of effected TPI	0	0		03JAN08A		03JAN08A	2						
01R0002504	1R 4; On Pproviding documents of effected PII	0	0		03JAN08A		03JAN08A	2						
01R0002505	1R 5; On delivery of all Land Transport for SO	0	0		02MAY08A		02MAY08A	2						
01R0002506	1R 6; On install. of computer facilities for SO	0	0		13SEP08A		13SEP08A	2						
01R0002507	1R 7; On accept. of detailed CRA incl. PCS	0	0		11AUG09		11AUG09	2						
01R0002508	1R 8; On acceptance of Physical Model by the SO	0	0		27NOV08A		27NOV08A	2						
01R0002509	1R 9; On acceptance of 3-D Animation Model	0	0		27FEB09A		27FEB09A	2						
01R0002510	1R 10; On satisf. operation of CCTV for 3 mth	0	0		17JUN09		17JUN09	2						
01R0002511	1R 11; On acceptance of O&MM	0	0		08FEB12		21MAR12	2						
01R0002512	1R 12; On acceptance of as-built drwgs.	0	0		07MAR13		18APR13	2						
01R0002513	1R 13; On acceptance of T.R/Video/Brouchure	0	0		06JAN13		17FEB13	2						
01R0002514	1R 14; On complete all wks for 3 mth frm DOC	0	0		27MAR08A		27MAR08A	2						
01R0002515	1R 15; On complete all wks for 6 mth frm DOC	0	0		27JUN08A		27JUN08A	2						
01R0002516	1R 16; On complete all wks for 9 mth frm DOC	0	0		25SEP08A		25SEP08A	2						
01R0002517	1R 17; On complete all wks for 12 mth frm DOC	0	0		27DEC08A		27DEC08A	2						
01R0002518	1R 18; On complete all wks for 15 mth frm DOC	0	0		27MAR09A		27MAR09A	2						
01R0002519	1R 19; On complete all wks for 18 mth frm DOC	0	0		26JUN09		26JUN09	2						
01R0002520	1R 20; On complete all wks for 21 mth frm DOC	0	0		25SEP09		25SEP09	2						
01R0002521	1R 21; On complete all wks for 24 mth frm DOC	0	0		26DEC09		26DEC09	2						
01R0002522	1R 22; On complete all wks for 27 mth frm DOC	0	0		27MAR10		27MAR10	2						
01R0002523	1R 23; On complete all wks for 30 mth frm DOC	0	0		26JUN10		26JUN10	2						
01R0002524	1R 24; On complete all wks for 33 mth frm DOC	0	0		25SEP10		25SEP10	2						
01R0002525	1R 25; On complete all wks for 36 mth frm DOC	0	0		26DEC10		26DEC10	2						
01R0002526	1R 26; On complete all wks for 39 mth frm DOC	0	0		27MAR11		27MAR11	2						
01R0002527	1R 27; On complete all wks for 42 mth frm DOC	0	0		26JUN11		26JUN11	2						
01R0002528	1R 28; On complete all wks for 45 mth frm DOC	0	0		25SEP11		25SEP11	2						
01R0002529	1R 29; On issuance of completion certificates	0	0		04JAN13		15FEB13	2						
01R0002530	1R 30; On complete all wks for 3 mth frm CMP	0	0		08MAR13		19APR13	2						

ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
01R0002531	1R 31; On complete all wks for 6 mth frm CMP	0	0		07JUN13		19JUL13	2	206						
01R0002532	1R 32; On complete all wks for 9 mth frm CMP	0	0		06SEP13		18OCT13	2	115						
01R0002533	1R 33; On issuance of maintenance certificate	0	0		30DEC13		10FEB14	2	0						
Schedule of Milestones for Cost Centre No. 16R															
16R7003001	16R 1; On completion of landscape wks; Portion A	0	0		01MAR12		01MAR12	2	669						
16R7003002	16R 2; On completion of landscape wks; Portion B	0	0		16MAR12		16MAR12	2	654						
16R7003003	16R 3; On completion of landscape wks; Portion C	0	0		28JAN12		28JAN12	2	702						
16R7003004	16R 4; On completion of landscape wks; Portion D	0	0		30NOV12		11JAN13	2	395						
16R7003005	16R 5; On completion of establish wks; Portion A	0	0		01MAR13		01MAR13	2	304						
16R7003006	16R 6; On completion of establish wks; Portion B	0	0		16MAR13		16MAR13	2	289						
16R7003007	16R 7; On completion of establish wks; Portion C	0	0		27JAN13		27JAN13	2	337						
16R7003008	16R 8; On completion of establish wks; Portion D	0	0		30NOV13		11JAN14	2	30						
Schedule of Milestones for Cost Centre No. 17R															
17R0003101	17R 1; On complet of all wks for 3 mth frm DOC	0	0		27MAR08A		27MAR08A	2							
17R0003102	17R 2; On complet of all wks for 6 mth frm DOC	0	0		27JUN08A		27JUN08A	2							
17R0003103	17R 3; On complet of all wks for 9 mth frm DOC	0	0		26SEP08A		26SEP08A	2							
17R0003104	17R 4; On complet of all wks for 12 mth frm DOC	0	0		27DEC08A		27DEC08A	2							
17R0003105	17R 5; On complet of all wks for 15 mth frm DOC	0	0		27MAR09A		27MAR09A	2							
17R0003106	17R 6; On complet of all wks for 18 mth frm DOC	0	0		27JUN09		15JUL09	2	1,647						
17R0003107	17R 7; On complet of all wks for 21 mth frm DOC	0	0		26SEP09		14OCT09	2	1,556						
17R0003108	17R 8; On complet of all wks for 24 mth frm DOC	0	0		26DEC09		13JAN10	2	1,465						
17R0003109	17R 9; On complet of all wks for 27 mth frm DOC	0	0		28MAR10		15APR10	2	1,373						
17R0003110	17R 10; On complet all wks for 30 mth frm DOC	0	0		27JUN10		15JUL10	2	1,282						
17R0003111	17R 11; On complet all wks for 33 mth frm DOC	0	0		26SEP10		14OCT10	2	1,191						
17R0003112	17R 12; On complet all wks for 36 mth frm DOC	0	0		26DEC10		13JAN11	2	1,100						
17R0003113	17R 13; On complet all wks for 39 mth frm DOC	0	0		28MAR11		15APR11	2	1,008						
17R0003114	17R 14; On complet all wks for 42 mth frm DOC	0	0		27JUN11		15JUL11	2	917						
17R0003115	17R 15; On complet all wks for 45 mth frm DOC	0	0		26SEP11		14OCT11	2	826						
17R0003116	17R 16; On complet all wks for 48 mth frm DOC	0	0		26DEC11		13JAN12	2	735						
17R0003117	17R 17; On complet of all wks for 3 mth frm CMP	0	0		08MAR13		19APR13	2	297						
17R0003118	17R 18; On complet of all wks for 6 mth frm CMP	0	0		07JUN13		19JUL13	2	206						
17R0003119	17R 19; On complet of all wks for 9 mth frm CMP	0	0		07SEP13		19OCT13	2	114						
17R0003120	17R 20; On issuance of maintenance certificate	0	0		30DEC13		10FEB14	2	0						
Design/Design Check for Permanent Works															
Project-wide Packages															
Project Design Plan (PDP)															
02L10D0102	Employ Independent Designer	7	7	14DEC07A	20DEC07A	14DEC07A	20DEC07A	2							
02L10D0104	Prepare & submit Project Design Plan (PDP)	28	28	14DEC07A	26FEB08A	14DEC07A	26FEB08A	2							
02L10D0106	SO's review & comment on PDP	28	28	27FEB08A	18MAR08A	27FEB08A	18MAR08A	2							
02L10D0108	Provide further information of (PDP)	28	28	19MAR08A	21AUG08A	19MAR08A	21AUG08A	2							

ID	Activity Description	B04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
02L10D0110	SO approves PDP	14	14	14MAY08A	04SEP08A	14MAY08A	04SEP08A	2						
02L10D0112	Employ Independent Design Checker	14	14	28DEC07A	01FEB08A	28DEC07A	01FEB08A	2						
02L10D0114	Approval of Design Checker by the SO	28	28	02FEB08A	28FEB08A	02FEB08A	28FEB08A	2						
Design for Communication System														
02L1FE0102	Design preparation for the AIP submission	15	15	27JUN09	11JUL09	27JUN09	11JUL09	2	356					
02L1FE0103	Design (AIP) submission for the DC's approval	1	1	13JUL09	13JUL09	13JUL09	13JUL09	1	288					
02L1FE0104	Design (AIP) certification by the Design Checker	28	28	14JUL09	10AUG09	14JUL09	10AUG09	2	356					
02L1FE0106	Design (AIP) submission for the SO's approval	1	1	13JUL09	13JUL09	13JUL09	13JUL09	1	294					
02L1FE0108	Design (AIP) review by the SO	60	60	21JUL09	18SEP09	21JUL09	18SEP09	2	356					
02L1FE0110	AIP submission for rel. authorities' approval	1	1	13JUL09	13JUL09	13JUL09	13JUL09	1	321					
02L1FE0112	Design (AIP) review by the rel. authorities	28	28	21JUL09	17AUG09	21JUL09	17AUG09	2	387					
02L1FE0114	Obtain rel. authorities's approval for AIP	1	1	18AUG09	18AUG09	18AUG09	18AUG09	1	315					
02L1FE0116	Obtain SO's consent for design (AIP)	0	0		19SEP09		19SEP09	2	356					
02L1FE0118	Design preparation for the DDA submission	30	30	28AUG09	26SEP09	28AUG09	26SEP09	2	356					
02L1FE0119	Design (DDA) submission for the DC's approval	1	1	28SEP09	28SEP09	28SEP09	28SEP09	1	288					
02L1FE0120	Design (DDA) certification by the Design Checker	28	28	29SEP09	26OCT09	29SEP09	26OCT09	2	356					
02L1FE0122	Design (DDA) submission for the SO's approval	1	1	28SEP09	28SEP09	28SEP09	28SEP09	1	293					
02L1FE0124	Design (DDA) review by the SO	60	60	06OCT09	04DEC09	06OCT09	04DEC09	2	356					
02L1FE0126	DDA submission for rel. authorities' approval	1	1	28SEP09	28SEP09	28SEP09	28SEP09	1	319					
02L1FE0128	Design (DDA) review by the rel. authorities	28	28	06OCT09	02NOV09	06OCT09	02NOV09	2	388					
02L1FE0130	Obtain rel. authorities's approval for DDA	1	1	03NOV09	03NOV09	03NOV09	03NOV09	1	316					
02L1FE0132	Obtain SO's consent for design (DDA)	0	0		05DEC09		05DEC09	2	356					
Design for Flow Measurement System														
02L1FE0202	Design preparation for the AIP submission	0	0		11MAY09A		11MAY09A	2						
02L1FE0203	Design (AIP) submission for the DC's approval	1	1	29MAY09	29MAY09	29MAY09	29MAY09	1	410					
02L1FE0204	Design (AIP) certification by the Design Checker	28	28	30MAY09	26JUN09	30MAY09	26JUN09	2	502					
02L1FE0206	Design (AIP) submission for the SO's approval	1	1	12MAY09A	12MAY09A	12MAY09A	12MAY09A	1						
02L1FE0208	Design (AIP) review by the SO	60	60	13MAY09A	24JUL09	13MAY09A	24JUL09	2	502					
02L1FE0210	AIP submission for rel. authorities' approval	1	1	29MAY09	29MAY09	29MAY09	29MAY09	1	432					
02L1FE0212	Design (AIP) review by the rel. authorities	28	28	06JUN09	03JUL09	06JUN09	03JUL09	2	522					
02L1FE0214	Obtain rel. authorities's approval for AIP	1	1	04JUL09	04JUL09	04JUL09	04JUL09	1	427					
02L1FE0216	Obtain SO's consent for design (AIP)	0	0		25JUL09		25JUL09	2	502					
02L1FE0218	Design preparation for the DDA submission	30	30	03JUL09	01AUG09	03JUL09	01AUG09	2	502					
02L1FE0219	Design (DDA) submission for the DC's approval	1	1	03AUG09	03AUG09	03AUG09	03AUG09	1	410					
02L1FE0220	Design (DDA) certification by the Design Checker	28	28	04AUG09	31AUG09	04AUG09	31AUG09	2	501					
02L1FE0222	Design (DDA) submission for the SO's approval	1	1	03AUG09	03AUG09	03AUG09	03AUG09	1	416					
02L1FE0224	Design (DDA) review by the SO	60	60	11AUG09	09OCT09	11AUG09	09OCT09	2	501					
02L1FE0226	DDA submission for rel. authorities' approval	1	1	03AUG09	03AUG09	03AUG09	03AUG09	1	440					
02L1FE0228	Design (DDA) review by the rel. authorities	28	28	11AUG09	07SEP09	11AUG09	07SEP09	2	533					
02L1FE0230	Obtain rel. authorities's approval for DDA	1	1	08SEP09	08SEP09	08SEP09	08SEP09	1	431					
02L1FE0232	Obtain design (DDA) approval from the SO	0	0		10OCT09		10OCT09	2	501					

ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Design Packages for Works in Portion A															
Temp. Steel Decking Design Over Shing Mun Nullah															
02L1AA0102	Design preparation by the Designer	14	14	22FEB08A	15MAY08A	22FEB08A	15MAY08A	2							
02L1AA0104	Design certification by the Design Checker	14	14	16MAY08A	26MAY08A	16MAY08A	26MAY08A	2							
02L1AA0106	Design submission for the SO's approval	1	1	26MAY08A	26MAY08A	26MAY08A	26MAY08A	1							
02L1AA0108	Design review by the SO	21	21	27MAY08A	30JUN08A	27MAY08A	30JUN08A	2							
02L1AA0110	Obtain design approval from the SO	0	0		30JUN08A		30JUN08A	2							
ELS Design for Spiral Ramp/Cascade/Box Culvert															
02L1AA0202	Design preparation for the DDA submission	158	158	02MAY08A	16FEB09A	02MAY08A	16FEB09A	2							
02L1AA0203	Design submission for the DC's approval	2	2	10JUL08A	17FEB09A	10JUL08A	17FEB09A	1							
02L1AA0204	Design (DDA) certification by the Design Checker	30	30	11JUL08A	17FEB09A	11JUL08A	17FEB09A	2							
02L1AA0206	Design (DDA) submission for the SO's approval	2	2	12AUG08A	17FEB09A	12AUG08A	17FEB09A	1							
02L1AA0208	Design (DDA) review by the SO	68	68	13AUG08A	14MAR09A	13AUG08A	14MAR09A	2							
02L1AA0216	SO submit design (DDA) for approval of GEO	1	1	03FEB09A	03MAR09A	03FEB09A	03MAR09A	1							
02L1AA0218	Design (DDA) review/approval by the GEO	28	28	04MAR09A	31MAY09	04MAR09A	31MAY09	2	0						
02L1AA0238	Obtain SO's consent for design (DDA)	0	0		24MAR09A		24MAR09A	2							
Temp. Platform Design for H-Piling															
02L1AA0302	Design preparation by the Designer	15	15	04JAN10*	18JAN10	04JAN10*	18JAN10	2	330						
02L1AA0303	Design submission for the DC's approval	1	1	19JAN10	19JAN10	19JAN10	19JAN10	1	269						
02L1AA0304	Design certification by the Design Checker	28	28	20JAN10	16FEB10	20JAN10	16FEB10	2	330						
02L1AA0306	Design submission for the SO's approval	1	1	19JAN10	19JAN10	19JAN10	19JAN10	1	269						
02L1AA0308	Design review by the SO	42	42	20JAN10	02MAR10	20JAN10	02MAR10	2	330						
02L1AA0310	Obtain design approval from the SO	0	0		02MAR10		02MAR10	2	330						
Cascade & Box Culvert Design for Portion A															
02L1AA0402	Design preparation for the AIP submission	30	30	02JUN08A	28FEB09A	02JUN08A	28FEB09A	2							
02L1AA0403	Design (AIP) submission for the DC's approval	3	3	12JUL08A	02MAR09A	12JUL08A	02MAR09A	1							
02L1AA0404	Design (AIP) certification by the Design Checker	243	243	14JUL08A	18MAR09A	14JUL08A	18MAR09A	2							
02L1AA0406	Design (AIP) submission for the SO's approval	2	2	15JUL08A	19MAR09A	15JUL08A	19MAR09A	1							
02L1AA0408	Design (AIP) review by the SO	66	66	16JUL08A	20MAR09A	16JUL08A	20MAR09A	2							
02L1AA0410	AIP submission for rel. authorities' approval	1	1	14JUL08A	19AUG08A	14JUL08A	19AUG08A	1							
02L1AA0412	Design (AIP) review by the rel. authorities	28	28	15JUL08A	12NOV08A	15JUL08A	12NOV08A	2							
02L1AA0414	Obtain rel. authorities's approval for AIP	1	1	03NOV08A	12NOV08A	03NOV08A	12NOV08A	1							
02L1AA0420	Obtain SO's consent for design (AIP)	0	0		20MAR09A		20MAR09A	2							
02L1AA0422	Design preparation for the DDA submission	30	30	21MAR09A	12JUN09	21MAR09A	12JUN09	2	124						
02L1AA0423	Design (DDA) submission for the DC's approval	1	1	13JUN09	13JUN09	13JUN09	13JUN09	1	105						
02L1AA0424	Design (DDA) certification by the Design Checker	28	28	14JUN09	11JUL09	14JUN09	11JUL09	2	126						
02L1AA0426	Design (DDA) submission for the SO's approval	1	1	13JUN09	13JUN09	13JUN09	13JUN09	1	103						
02L1AA0428	Design (DDA) review by the SO	66	66	14JUN09	18AUG09	14JUN09	18AUG09	2	124						
02L1AA0430	DDA submission for rel. authorities' approval	1	1	20JUN09	20JUN09	20JUN09	20JUN09	1	128						
02L1AA0432	Design (DDA) review by the rel. authorities	28	28	21JUN09	18JUL09	21JUN09	18JUL09	2	155						
02L1AA0434	Obtain rel. authorities's approval for DDA	1	1	20JUL09	20JUL09	20JUL09	20JUL09	1	129						
02L1AA0440	Obtain SO's consent for design (DDA)	0	0		19AUG09		19AUG09	2	124						

ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
Impact Assessment on WSD Wo Yip Hop V. S. P. H.														
02L1AA0502	Design preparation for the DDA submission	30	30	02MAY08A	26FEB09A	02MAY08A	26FEB09A	2						
02L1AA0503	Design (DDA) submission for the DC's approval	1	1	26JUN08A	27FEB09A	26JUN08A	27FEB09A	1						
02L1AA0504	Design (DDA) certification by the Design Checker	60	60	27JUN08A	11MAR09A	27JUN08A	11MAR09A	2						
02L1AA0506	Design (DDA) submission for the SO's approval	2	2	14JUL08A	24MAR09A	14JUL08A	24MAR09A	1						
02L1AA0508	Design (DDA) review by the SO	66	66	15JUL08A	31MAR09A	15JUL08A	31MAR09A	2						
02L1AA0510	DDA submission for rel. authorities' approval	2	2	10JUL08A	14MAR09A	10JUL08A	14MAR09A	1						
02L1AA0512	Design (DDA) review by the rel. authorities	28	28	14JUL08A	31MAY09	14JUL08A	31MAY09	2						
02L1AA0514	Obtain rel. authorities's approval for DDA	1	1	01JUN09	01JUN09	01JUN09	01JUN09	1						
02L1AA0520	Obtain SO's consent for design (DDA)	0	0		31MAR09A		31MAR09A	2						
Temporary Platform for Pipe Piling														
02L1AA0602	Design preparation by the Designer	11	11	21JUL08A	23AUG08A	21JUL08A	23AUG08A	2						
02L1AA0603	Design submission for the DC's approval	1	1	01AUG08A	25AUG08A	01AUG08A	25AUG08A	1						
02L1AA0604	Design certification by the Design Checker	21	21	02AUG08A	26SEP08A	02AUG08A	26SEP08A	2						
02L1AA0606	Design submission for the SO's approval	1	1	08AUG08A	27SEP08A	08AUG08A	27SEP08A	1						
02L1AA0608	Design review by the SO	28	28	09AUG08A	17OCT08A	09AUG08A	17OCT08A	2						
02L1AA0610	Obtain design approval from the SO	0	0		17OCT08A		17OCT08A	2						
Temporary Works Design for Retrieval of TBM														
02L1AA0702	Design preparation by the Designer	30	30	28FEB09A	22JUN09	28FEB09A	22JUN09	2						
02L1AA0703	Design submission for the DC's approval	1	1	23JUN09	23JUN09	23JUN09	23JUN09	1						
02L1AA0704	Design certification by the Design Checker	28	28	24JUN09	21JUL09	24JUN09	21JUL09	2						
02L1AA0706	Design submission for the SO's approval	1	1	23JUN09	23JUN09	23JUN09	23JUN09	1						
02L1AA0708	Design review by the SO	42	42	24JUN09	04AUG09	24JUN09	04AUG09	2						
02L1AA0710	Obtain design approval from the SO	0	0		04AUG09		04AUG09	2						
Temporary Drainage Management Plan for Portion A														
02L1AA0802	TDMP preparation by the Designer	208	208	18AUG08A	23MAY09A	18AUG08A	23MAY09A	2						
02L1AA0804	TDMP submission for the DC's approval	2	2	24SEP08A	25MAY09A	24SEP08A	25MAY09A	1						
02L1AA0806	TDMP certification by the Design Checker	28	28	24OCT08A	03JUN09	24OCT08A	03JUN09	2						
02L1AA0808	TDMP submission for the SO's approval	2	2	05NOV08A	04JUN09	05NOV08A	04JUN09	1						
02L1AA0810	TDMP review by the SO	90	90	05NOV08A	16JUL09	05NOV08A	16JUL09	2						
02L1AA0812	TDMP submission for DSD's approval	1	1	04JUN09	04JUN09	04JUN09	04JUN09	1						
02L1AA0814	TDMP review by the DSD	90	90	05JUN09	02SEP09	05JUN09	02SEP09	2						
02L1AA0816	Obtain DSD's approval for DDA	1	1	03SEP09	03SEP09	03SEP09	03SEP09	1						
02L1AA0818	Obtain SO's consent for TDMP	0	0		03SEP09		03SEP09	2						
Geotechnical Instrumentation Stg 1 for GL Works														
3DL1AAG102	Design preparation by the Designer	14	14	22FEB08A	28APR08A	22FEB08A	28APR08A	2						
3DL1AAG104	Design certification by the Design Checker	7	7	29APR08A	16JUN08A	29APR08A	16JUN08A	2						
3DL1AAG106	Design submission for the SO's approval	1	1	10MAY08A	10MAY08A	10MAY08A	10MAY08A	1						
3DL1AAG108	Design review by the SO	14	14	12MAY08A	28AUG08A	12MAY08A	28AUG08A	2						
3DL1AAG110	Obtain design approval from the SO	0	0		28AUG08A		28AUG08A	2						
3DL1AAG112	Install Geotechnical Instruments	6	6	26MAY08A	26MAY08A	26MAY08A	26MAY08A	1						
3DL1AAG114	Baseline Monitoring	14	14	27MAY08A	31MAY08A	27MAY08A	31MAY08A	2						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Geotechnical Instrumentation Stg 2 for Deep Exc.															
3DL1AAG202	Design preparation by the Designer	14	14	01DEC08A	24FEB09A	01DEC08A	24FEB09A	2							
3DL1AAG204	Design certification by the Design Checker	7	7	15DEC08A	25FEB09A	15DEC08A	25FEB09A	2							
3DL1AAG206	Design submission for the SO's approval	1	1	07JAN09A	25FEB09A	07JAN09A	25FEB09A	1							
3DL1AAG208	Design review by the SO	28	28	08JAN09A	24MAR09A	08JAN09A	24MAR09A	2							
3DL1AAG210	Obtain design approval from the SO	0	0		24MAR09A		24MAR09A	2							
3DL1AAG212	Install Geotechnical Instruments	28	28	09FEB09A	04JUN09	09FEB09A	04JUN09	1	0						
3DL1AAG214	Baseline Monitoring	6	6	18FEB09A	25MAR09A	18FEB09A	25MAR09A	2							
3DL1AAG216	Monitor/report Geotechnical Instrumentation	1,643	1,643	02JUN08A	04FEB13	02JUN08A	04FEB13	2	0						
Design Packages for Works in Portion B															
Piling Platform to Construct H-pile Wall															
02L1BB0202	Design preparation by the Designer	15	15	24MAR08A	09MAY08A	24MAR08A	09MAY08A	2							
02L1BB0204	Design certification by the Design Checker	14	14	10MAY08A	08AUG08A	10MAY08A	08AUG08A	2							
02L1BB0206	Design submission for the SO's approval	1	1	21MAY08A	08AUG08A	21MAY08A	08AUG08A	1							
02L1BB0208	Design review by the SO	21	21	22MAY08A	25SEP08A	22MAY08A	25SEP08A	2							
02L1BB0210	Obtain design approval from the SO	0	0		25SEP08A		25SEP08A	2							
Temp. Platform to Construct Drop Shafts															
02L1BB0302	Design preparation by the Designer	22	22	04AUG08A	11DEC08A	04AUG08A	11DEC08A	2							
02L1BB0303	Design submission for the DC's approval	2	2	11DEC08A	12FEB09A	11DEC08A	12FEB09A	1							
02L1BB0304	Design certification by the Design Checker	14	14	12DEC08A	25FEB09A	12DEC08A	25FEB09A	2							
02L1BB0306	Design submission for the SO's approval	2	2	12DEC08A	25FEB09A	12DEC08A	25FEB09A	1							
02L1BB0308	Design review by the SO	21	21	13DEC08A	11MAR09A	13DEC08A	11MAR09A	2							
02L1BB0310	Obtain design approval from the SO	0	0		11MAR09A		11MAR09A	2							
Temporary Drainage Management Plan															
02L1BB0402	TDMP preparation by the Designer	313	313	05MAY08A	21MAR09A	05MAY08A	21MAR09A	2							
02L1BB0403	TDMP submission for the DC's approval	2	2	05AUG08A	23MAR09A	05AUG08A	23MAR09A	1							
02L1BB0404	TDMP certification by the Design Checker	213	213	06AUG08A	13APR09A	06AUG08A	13APR09A	2							
02L1BB0406	TDMP submission for the SO's approval	2	2	24SEP08A	14APR09A	24SEP08A	14APR09A	1							
02L1BB0408	TDMP review by the SO	90	90	25SEP08A	03JUN09	25SEP08A	03JUN09	2	-210						
02L1BB0410	TDMP submission for DSD's approval	1	1	23SEP08A	23SEP08A	23SEP08A	23SEP08A	1							
02L1BB0412	TDMP review by the DSD	90	90	24SEP08A	04JUN09	24SEP08A	04JUN09	2	-211						
02L1BB0414	Obtain DSD's approval for DDA	1	1	05JUN09	05JUN09	05JUN09	05JUN09	1	-168						
02L1BB0416	Obtain SO's consent for TDMP	0	0		05JUN09		05JUN09	2	-211						
Temp. Support Design for MAA/MAS/VDS/DC															
02L1BB0502	Design preparation for the AIP submission	272	272	02JUN08A	19MAR09A	02JUN08A	19MAR09A	2							
02L1BB0503	Design (AIP) submission for the DC's approval	2	2	11JUL08A	20MAR09A	11JUL08A	20MAR09A	1							
02L1BB0504	Design (AIP) certification by the Design Checker	60	60	12JUL08A	04APR09A	12JUL08A	04APR09A	2							
02L1BB0506	Design (AIP) submission for the SO's approval	2	2	24JUL08A	06APR09A	24JUL08A	06APR09A	1							
02L1BB0508	Design (AIP) review by the SO	66	66	25JUL08A	11MAY09A	25JUL08A	11MAY09A	2							
02L1BB0510	AIP submission for rel. authorities' approval	1	1	12JUL08A	12JUL08A	12JUL08A	12JUL08A	1							
02L1BB0512	Design (AIP) review by the rel. authorities	28	28	14JUL08A	10NOV08A	14JUL08A	10NOV08A	2							
02L1BB0514	Obtain rel. authorities's approval for AIP	1	1	11NOV08A	11NOV08A	11NOV08A	11NOV08A	1							
02L1BB0516	SO submit design (AIP) for approval of GEO	1	1	29MAY09	29MAY09	29MAY09	29MAY09	1	0						

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
02L1BB0518	Design (AIP) review/approval by the GEO	28	28	30MAY09	26JUN09	30MAY09	26JUN09	2	0					
02L1BB0520	Obtain SO's consent for design (AIP)	0	0		11MAY09A		11MAY09A	2	0					
02L1BB0522	Design preparation for the DDA submission	30	30	28MAY09	26JUN09	28MAY09	26JUN09	2	0					
02L1BB0523	Design (DDA) submission for the DC's approval	1	1	27JUN09	27JUN09	27JUN09	27JUN09	1	0					
02L1BB0524	Design (DDA) certification by the Design Checker	28	28	28JUN09	25JUL09	28JUN09	25JUL09	2	1					
02L1BB0526	Design (DDA) submission for the SO's approval	1	1	27JUN09	27JUN09	27JUN09	27JUN09	1	0					
02L1BB0528	Design (DDA) review by the SO	66	66	28JUN09	01SEP09	28JUN09	01SEP09	2	0					
02L1BB0530	DDA submission for rel. authorities' approval	1	1	04JUL09	04JUL09	04JUL09	04JUL09	1	26					
02L1BB0532	Design (DDA) review by the rel. authorities	28	28	05JUL09	01AUG09	05JUL09	01AUG09	2	31					
02L1BB0534	Obtain rel. authorities' approval for DDA	1	1	03AUG09	03AUG09	03AUG09	03AUG09	1	26					
02L1BB0536	SO submit design (DDA) for approval of GEO	1	1	03AUG09	03AUG09	03AUG09	03AUG09	1	0					
02L1BB0538	Design (DDA) review/approval by the GEO	28	28	04AUG09	31AUG09	04AUG09	31AUG09	2	0					
02L1BB0540	Obtain SO's consent for design (DDA)	0	0		02SEP09		02SEP09	2	0					
Temp. Support Design for MA and MA/MT Connection														
02L1BB0602	Design preparation for the AIP submission	110	110	09JUN08A	02JUN09	09JUN08A	02JUN09	2	0					
02L1BB0603	Design (AIP) submission for the DC's approval	1	1	18MAY09A	29MAY09	18MAY09A	29MAY09	1	3					
02L1BB0604	Design (AIP) certification by the Design Checker	28	28	19MAY09A	14JUN09	19MAY09A	14JUN09	2	0					
02L1BB0606	Design (AIP) submission for the SO's approval	1	1	03JUN09	03JUN09	03JUN09	03JUN09	1	0					
02L1BB0608	Design (AIP) review by the SO	66	66	04JUN09	08AUG09	04JUN09	08AUG09	2	0					
02L1BB0610	AIP submission for rel. authorities' approval	1	1	03JUN09	03JUN09	03JUN09	03JUN09	1	30					
02L1BB0612	Design (AIP) review by the rel. authorities	28	28	04JUN09	01JUL09	04JUN09	01JUL09	2	36					
02L1BB0614	Obtain rel. authorities' approval for AIP	1	1	02JUL09	02JUL09	02JUL09	02JUL09	1	31					
02L1BB0616	SO submit design (AIP) for approval of GEO	1	1	22JUN09	22JUN09	22JUN09	22JUN09	1	0					
02L1BB0618	Design (AIP) review/approval by the GEO	28	28	23JUN09	20JUL09	23JUN09	20JUL09	2	0					
02L1BB0620	Obtain SO's consent for design (AIP)	0	0		09AUG09		09AUG09	2	0					
02L1BB0622	Design preparation for the DDA submission	30	30	18JUL09	16AUG09	18JUL09	16AUG09	2	0					
02L1BB0623	Design (DDA) submission for the DC's approval	1	1	17AUG09	17AUG09	17AUG09	17AUG09	1	0					
02L1BB0624	Design (DDA) certification by the Design Checker	28	28	18AUG09	14SEP09	18AUG09	14SEP09	2	0					
02L1BB0626	Design (DDA) submission for the SO's approval	1	1	17AUG09	17AUG09	17AUG09	17AUG09	1	0					
02L1BB0628	Design (DDA) review by the SO	66	66	18AUG09	22OCT09	18AUG09	22OCT09	2	0					
02L1BB0630	DDA submission for rel. authorities' approval	1	1	24AUG09	24AUG09	24AUG09	24AUG09	1	27					
02L1BB0632	Design (DDA) review by the rel. authorities	28	28	25AUG09	21SEP09	25AUG09	21SEP09	2	31					
02L1BB0634	Obtain rel. authorities' approval for DDA	1	1	22SEP09	22SEP09	22SEP09	22SEP09	1	25					
02L1BB0636	SO submit design (DDA) for approval of GEO	1	1	22SEP09	22SEP09	22SEP09	22SEP09	1	0					
02L1BB0638	Design (DDA) review/approval by the GEO	28	28	23SEP09	20OCT09	23SEP09	20OCT09	2	0					
02L1BB0640	Obtain SO's consent for design (DDA)	0	0		23OCT09		23OCT09	2	0					
Permanent Design for MAA/MAS/VDS/DC														
02L1BB0702	Design preparation for the AIP submission	285	285	02JUN08A	02JUN09	02JUN08A	02JUN09	2	0					
02L1BB0703	Design submission for the DC's approval	2	2	23JUL08A	03JUN09	23JUL08A	03JUN09	1	0					
02L1BB0704	Design (AIP) certification by the Design Checker	60	60	24JUL08A	19JUN09	24JUL08A	19JUN09	2	0					
02L1BB0706	Design (AIP) submission for the SO's approval	2	2	04JUL08A	03JUN09	04JUL08A	03JUN09	1	1					
02L1BB0708	Design (AIP) review by the SO	66	66	05JUL08A	19JUN09	05JUL08A	19JUN09	2	1					
02L1BB0710	AIP submission for rel. authorities' approval	1	1	03JUL08A	03JUL08A	03JUL08A	03JUL08A	1	0					

ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
02L1BB0712	Design (AIP) review by the rel. authorities	28	28	04JUL08A	08JUN09	04JUL08A	08JUN09	2	10						
02L1BB0714	Obtain rel. authorities' approval for AIP	1	1	09JUN09	09JUN09	09JUN09	09JUN09	1	9						
02L1BB0716	SO submit design (AIP) for approval of GEO	1	1	27JUN09	27JUN09	27JUN09	27JUN09	1	0						
02L1BB0718	Design (AIP) review/approval by the GEO	28	28	28JUN09	25JUL09	28JUN09	25JUL09	2	0						
02L1BB0720	Obtain SO's consent for design (AIP)	0	0		20JUN09		20JUN09	2	1						
02L1BB0722	Design preparation for the DDA submission	30	30	17NOV08A	27JUN09	17NOV08A	27JUN09	2	1						
02L1BB0723	Design submission for the DC's approval	1	1	29JUN09	29JUN09	29JUN09	29JUN09	1	0						
02L1BB0724	Design (DDA) certification by the Design Checker	28	28	30JUN09	27JUL09	30JUN09	27JUL09	2	0						
02L1BB0726	Design (DDA) submission for the SO's approval	1	1	29JUN09	29JUN09	29JUN09	29JUN09	1	269						
02L1BB0728	Design (DDA) review by the SO	66	66	30JUN09	03SEP09	30JUN09	03SEP09	2	332						
02L1BB0730	DDA submission for rel. authorities' approval	1	1	29JUN09	29JUN09	29JUN09	29JUN09	1	299						
02L1BB0732	Design (DDA) review by the rel. authorities	28	28	07JUL09	03AUG09	07JUL09	03AUG09	2	363						
02L1BB0734	Obtain rel. authorities' approval for DDA	1	1	04AUG09	04AUG09	04AUG09	04AUG09	1	294						
02L1BB0736	SO submit design (DDA) for approval of GEO	1	1	04AUG09	04AUG09	04AUG09	04AUG09	1	0						
02L1BB0738	Design (DDA) review/approval by the GEO	28	28	05AUG09	01SEP09	05AUG09	01SEP09	2	0						
02L1BB0740	Obtain SO's consent for design (DDA)	0	0		04SEP09		04SEP09	2	332						
Permanent Design for MA and MA/MT Connection															
02L1BB0802	Design preparation for AIP submission	90	90	09JUN08A	17JUN09	09JUN08A	17JUN09	2	120						
02L1BB0803	Design (AIP) submission for the DC's approval	2	2	30JUN08A	18JUN09	30JUN08A	18JUN09	1	100						
02L1BB0804	Design (AIP) certification by the Design Checker	28	28	24JUL08A	06JUL09	24JUL08A	06JUL09	2	120						
02L1BB0806	Design (AIP) submission for the SO's approval	2	2	25JUL08A	07JUL09	25JUL08A	07JUL09	1	102						
02L1BB0808	Design (AIP) review by the SO	66	66	26JUL08A	11AUG09	26JUL08A	11AUG09	2	120						
02L1BB0810	AIP submission for rel. authorities' approval	1	1	25JUL08A	07AUG08A	25JUL08A	07AUG08A	1	0						
02L1BB0812	Design (AIP) review by the rel. authorities	28	28	26JUL08A	13JUL09	26JUL08A	13JUL09	2	148						
02L1BB0814	Obtain rel. authorities' approval for AIP	1	1	14JUL09	14JUL09	14JUL09	14JUL09	1	124						
02L1BB0816	SO submit design (AIP) for approval of GEO	1	1	14JUL09	14JUL09	14JUL09	14JUL09	1	100						
02L1BB0818	Design (AIP) review/approval by the GEO	28	28	15JUL09	11AUG09	15JUL09	11AUG09	2	120						
02L1BB0820	Obtain SO's consent for design (AIP)	0	0		12AUG09		12AUG09	2	120						
02L1BB0822	Design preparation for the DDA submission	30	30	21JUL09	19AUG09	21JUL09	19AUG09	2	120						
02L1BB0823	Design (DDA) submission for the DC's approval	1	1	20AUG09	20AUG09	20AUG09	20AUG09	1	101						
02L1BB0824	Design (DDA) certification by the Design Checker	28	28	21AUG09	17SEP09	21AUG09	17SEP09	2	122						
02L1BB0826	Design (DDA) submission for the SO's approval	1	1	20AUG09	20AUG09	20AUG09	20AUG09	1	100						
02L1BB0828	Design (DDA) review by the SO	66	66	21AUG09	25OCT09	21AUG09	25OCT09	2	120						
02L1BB0830	DDA submission for rel. authorities' approval	1	1	20AUG09	20AUG09	20AUG09	20AUG09	1	129						
02L1BB0832	Design (DDA) review by the rel. authorities	28	28	28AUG09	24SEP09	28AUG09	24SEP09	2	151						
02L1BB0834	Obtain rel. authorities' approval for DDA	1	1	25SEP09	25SEP09	25SEP09	25SEP09	1	120						
02L1BB0836	SO submit design (DDA) for approval of GEO	1	1	25SEP09	25SEP09	25SEP09	25SEP09	1	98						
02L1BB0838	Design (DDA) review/approval by the GEO	28	28	26SEP09	23OCT09	26SEP09	23OCT09	2	122						
02L1BB0840	Obtain SO's consent for design (DDA)	0	0		26OCT09		26OCT09	2	120						
ELS for Perm. Approach Channel Construction															
02L1BB0902	Design preparation by the Designer	14	14	01AUG09*	14AUG09	01AUG09*	14AUG09	2	86						
02L1BB0903	Design submission for the DC's approval	1	1	15AUG09	15AUG09	15AUG09	15AUG09	1	70						
02L1BB0904	Design certification by the Design Checker	28	28	16AUG09	12SEP09	16AUG09	12SEP09	2	86						

ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
02L1BB0906	Design submission for the SO's approval	1	1	15AUG09	15AUG09	15AUG09	15AUG09	1	70					
02L1BB0908	Design review by the SO	42	42	16AUG09	26SEP09	16AUG09	26SEP09	2	86					
02L1BB0910	Obtain design approval from the SO	0	0		26SEP09		26SEP09	2	86					
Platform for RCD Operation (Air Vent Shaft)														
02L1BB1602	Prepare design/method statement	6	6	22NOV08A	01DEC08A	22NOV08A	01DEC08A	1						
02L1BB1604	Submit design/method statement to Design Checker	1	1	02DEC08A	23DEC08A	02DEC08A	23DEC08A	1						
02L1BB1606	Certify design/m.s. by Design Checker	7	7	03DEC08A	24DEC08A	03DEC08A	24DEC08A	2						
02L1BB1608	Submit design/m.s. to SO	1	1	24DEC08A	24DEC08A	24DEC08A	24DEC08A	1						
02L1BB1610	Design/m.s. review by SO	14	14	25DEC08A	11MAR09A	25DEC08A	11MAR09A	2						
02L1BB1612	Obtain design/m.s. approval from the SO	0	0		11MAR09A		11MAR09A	1						
Temporary Works for Air Vent Shaft Construction														
02L1BB1702	Prepare design/method statement	21	21	03NOV08A	16DEC08A	03NOV08A	16DEC08A	1						
02L1BB1704	Submit design/method statement to Design Checker	1	1	17DEC08A	17DEC08A	17DEC08A	17DEC08A	1						
02L1BB1706	Certify design/m.s. by Design Checker	14	14	18DEC08A	23JAN09A	18DEC08A	23JAN09A	2						
02L1BB1708	Submit design/m.s. to SO	1	1	23JAN09A	23JAN09A	23JAN09A	23JAN09A	1						
02L1BB1710	Design/m.s. review by SO	7	7	24JAN09A	23MAR09A	24JAN09A	23MAR09A	2						
02L1BB1712	Obtain design/m.s. approval from the SO	0	0		23MAR09A		23MAR09A	1						
Permanet Design for Air Vent Shaft														
02L1BB1802	Prepare design/method statement	26	26	05NOV08A	11DEC08A	05NOV08A	11DEC08A	1						
02L1BB1804	Submit design/method statement to Design Checker	1	1	12DEC08A	12DEC08A	12DEC08A	12DEC08A	1						
02L1BB1806	Certify design/m.s. by Design Checker	21	21	13DEC08A	24MAR09A	13DEC08A	24MAR09A	2						
02L1BB1808	Submit design/m.s. to SO	1	1	17DEC08A	24MAR09A	17DEC08A	24MAR09A	1						
02L1BB1810	Design/m.s. review by SO	42	42	18DEC08A	31MAY09	18DEC08A	31MAY09	2	150					
02L1BB1812	Submit design to rel. authorities	1	1	25MAR09A	25MAR09A	25MAR09A	25MAR09A	1						
02L1BB1814	Obtain design approval from rel. authorities	28	28	01MAR09A	28MAY09	01MAR09A	28MAY09	2	153					
02L1BB1816	Obtain design/m.s. approval from the SO	0	0		30MAY09		30MAY09	1	125					
ELS Design for Construction of Vortex Shaft														
02L1BB1902	Design preparation by the Designer	25	25	23FEB09A	02JUN09	23FEB09A	02JUN09	2	-205					
02L1BB1904	Design submission for the DC's approval	1	1	03JUN09	03JUN09	03JUN09	03JUN09	1	-163					
02L1BB1906	Design certification by the Design Checker	28	28	04JUN09	01JUL09	04JUN09	01JUL09	2	-205					
02L1BB1908	Design submission for the SO's approval	1	1	03JUN09	03JUN09	03JUN09	03JUN09	1	-157					
02L1BB1910	Design review by the SO	42	42	11JUN09	15JUL09	11JUN09	15JUL09	2	-205					
02L1BB1912	Obtain design approval from the SO	0	0		15JUL09		15JUL09	2	-205					
Geotechnical Instrumentation Stg 1 for GL Works														
3DL1BBG102	Design preparation by the Designer	14	14	22FEB08A	05MAY08A	22FEB08A	05MAY08A	2						
3DL1BBG104	Design certification by the Design Checker	7	7	06MAY08A	29AUG08A	06MAY08A	29AUG08A	2						
3DL1BBG106	Design submission for the SO's approval	1	1	10MAY08A	10MAY08A	10MAY08A	10MAY08A	1						
3DL1BBG108	Design review by the SO	14	14	12MAY08A	14JUL08A	12MAY08A	14JUL08A	2						
3DL1BBG110	Obtain design approval from the SO	0	0		14JUL08A		14JUL08A	2						
3DL1BBG112	Install Geotechnical Instruments	6	6	11JUN08A	19JUL08A	11JUN08A	19JUL08A	1						
3DL1BBG114	Baseline Monitoring	14	14	21JUL08A	26JUL08A	21JUL08A	26JUL08A	2						
Geotechnical Instrumentation Stg 2 for Deep Exc.														
3DL1BBG202	Design preparation by the Designer	40	40	31AUG08A	24OCT08A	31AUG08A	24OCT08A	2						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
3DL1BBG204	Design certification by the Design Checker	14	14	24OCT08A	02DEC08A	24OCT08A	02DEC08A	2							
3DL1BBG206	Design submission for the SO's approval	1	1	05NOV08A	02DEC08A	05NOV08A	02DEC08A	1							
3DL1BBG208	Design review by the SO	28	28	06NOV08A	10JUN09	06NOV08A	10JUN09	2	-114						
3DL1BBG210	Obtain design approval from the SO	0	0		10JUN09		10JUN09	2	-114						
3DL1BBG212	Install Geotechnical Instruments	12	12	14MAR09A	27MAR09A	14MAR09A	27MAR09A	1							
3DL1BBG214	Baseline Monitoring	14	14	11JUN09	24JUN09	11JUN09	24JUN09	2	-114						
3DL1BBG216	Monitor/report Geotechnical Instrumentation	1,587	1,587	28JUL08A	31DEC12	28JUL08A	31DEC12	2	0						
Design Packages for Works in Portion C															
Piling Platform for H-pile Wall A															
02L1CC0002	Design preparation by the Designer	15	15	12MAY08A	27JUN08A	12MAY08A	27JUN08A	2							
02L1CC0004	Design certification by the Design Checker	14	14	22MAY08A	03JUL08A	22MAY08A	03JUL08A	2							
02L1CC0006	Design submission for the SO's approval	1	1	04JUL08A	04JUL08A	04JUL08A	04JUL08A	1							
02L1CC0008	Design review by the SO	14	14	05JUL08A	29JUL08A	05JUL08A	29JUL08A	2							
02L1CC0010	Obtain design approval from the SO	0	0		29JUL08A		29JUL08A	2							
Temporary Works for Formation of Access Road															
02L1CC0102	Design preparation by the Designer	40	40	29SEP08A	01DEC08A	29SEP08A	01DEC08A	2							
02L1CC0103	Design submission for the DC's approval	1	1	02DEC08A	02DEC08A	02DEC08A	02DEC08A	1							
02L1CC0104	Design certification by the Design Checker	14	14	03DEC08A	08DEC08A	03DEC08A	08DEC08A	2							
02L1CC0106	Design submission for the SO's approval	1	1	09DEC08A	09DEC08A	09DEC08A	09DEC08A	1							
02L1CC0108	Design review by the SO	28	28	10DEC08A	23MAR09A	10DEC08A	23MAR09A	2							
02L1CC0110	Obtain design approval from the SO	0	0		23MAR09A		23MAR09A	2							
Piling Platform for H-pile Wall B															
02L1CC0202	Design preparation by the Designer	15	15	02JUL09*	16JUL09	02JUL09*	16JUL09	2	179						
02L1CC0203	Design submission for the DC's approval	1	1	17JUL09	17JUL09	17JUL09	17JUL09	1	147						
02L1CC0204	Design certification by the Design Checker	28	28	18JUL09	14AUG09	18JUL09	14AUG09	2	179						
02L1CC0206	Design submission for the SO's approval	1	1	17JUL09	17JUL09	17JUL09	17JUL09	1	147						
02L1CC0208	Design review by the SO	42	42	18JUL09	28AUG09	18JUL09	28AUG09	2	179						
02L1CC0210	Obtain design approval from the SO	0	0		28AUG09		28AUG09	2	179						
Temp. Support Design for MAA/MAS/VDS/DC/AVS															
02L1CC0302	Design preparation for the AIP submission	103	103	26JUN08A	09MAY09A	26JUN08A	09MAY09A	2							
02L1CC0303	Design (AIP) submission for the DC's approval	2	2	23DEC08A	15MAY09A	23DEC08A	15MAY09A	1							
02L1CC0304	Design (AIP) certification by the Design Checker	28	28	24DEC08A	19MAY09A	24DEC08A	19MAY09A	2							
02L1CC0306	Design (AIP) submission for the SO's approval	2	2	23DEC08A	19MAY09A	23DEC08A	19MAY09A	1							
02L1CC0308	Design (AIP) review by the SO	66	66	24DEC08A	23JUN09	24DEC08A	23JUN09	2	-141						
02L1CC0310	AIP submission for rel. authorities' approval	1	1	29MAY09	29MAY09	29MAY09	29MAY09	1	-115						
02L1CC0312	Design (AIP) review by the rel. authorities	28	28	30MAY09	26JUN09	30MAY09	26JUN09	2	-145						
02L1CC0314	Obtain rel. authorities' approval for AIP	1	1	27JUN09	27JUN09	27JUN09	27JUN09	1	-118						
02L1CC0316	SO submit design (AIP) for approval of GEO	1	1	29MAY09	29MAY09	29MAY09	29MAY09	1	0						
02L1CC0318	Design (AIP) review/approval by the GEO	28	28	30MAY09	26JUN09	30MAY09	26JUN09	2	0						
02L1CC0320	Obtain SO's consent for design (AIP)	0	0		29JUN09		29JUN09	2	-146						
02L1CC0322	Design preparation for the DDA submission	30	30	07JUN09	06JUL09	07JUN09	06JUL09	2	-146						
02L1CC0323	Design (DDA) submission for the DC's approval	1	1	07JUL09	07JUL09	07JUL09	07JUL09	1	-114						
02L1CC0324	Design (DDA) certification by the Design Checker	28	28	08JUL09	04AUG09	08JUL09	04AUG09	2	-143						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float							
									2008	2009	2010	2011	2012	2013	
02L1CC0326	Design (DDA) submission for the SO's approval	1	1	07JUL09	07JUL09	07JUL09	07JUL09	1 -117							
02L1CC0328	Design (DDA) review by the SO	66	66	08JUL09	11SEP09	08JUL09	11SEP09	2 -146							
02L1CC0330	DDA submission for rel. authorities' approval	1	1	07JUL09	07JUL09	07JUL09	07JUL09	1 -85							
02L1CC0332	Design (DDA) review by the rel. authorities	28	28	15JUL09	11AUG09	15JUL09	11AUG09	2 -116							
02L1CC0334	Obtain rel. authorities' approval for DDA	1	1	12AUG09	12AUG09	12AUG09	12AUG09	1 -95							
02L1CC0336	SO submit design (DDA) for approval of GEO	1	1	12AUG09	12AUG09	12AUG09	12AUG09	1 0							
02L1CC0338	Design (DDA) review/approval by the GEO	28	28	13AUG09	09SEP09	13AUG09	09SEP09	2 0							
02L1CC0340	Obtain SO's consent for design (DDA)	0	0		12SEP09		12SEP09	2 -146							
Temp. Support Design for MA and MAMT Connection															
02L1CC0402	Design preparation for the AIP submission	110	110	18AUG08A	03JUN09	18AUG08A	03JUN09	2 0							
02L1CC0403	Design (AIP) submission for the DC's approval	2	2	05MAY09A	30MAY09	05MAY09A	30MAY09	1 0							
02L1CC0404	Design (AIP) certification by the Design Checker	28	28	06MAY09A	15JUN09	06MAY09A	15JUN09	2 0							
02L1CC0406	Design (AIP) submission for the SO's approval	1	1	04JUN09	04JUN09	04JUN09	04JUN09	1 0							
02L1CC0408	Design (AIP) review by the SO	66	66	05JUN09	09AUG09	05JUN09	09AUG09	2 0							
02L1CC0410	AIP submission for rel. authorities' approval	1	1	04JUN09	04JUN09	04JUN09	04JUN09	1 30							
02L1CC0412	Design (AIP) review by the rel. authorities	28	28	05JUN09	02JUL09	05JUN09	02JUL09	2 36							
02L1CC0414	Obtain rel. authorities' approval for AIP	1	1	03JUL09	03JUL09	03JUL09	03JUL09	1 31							
02L1CC0416	SO submit design (AIP) for approval of GEO	1	1	23JUN09	23JUN09	23JUN09	23JUN09	1 0							
02L1CC0418	Design (AIP) review/approval by the GEO	28	28	24JUN09	21JUL09	24JUN09	21JUL09	2 0							
02L1CC0420	Obtain SO's consent for design (AIP)	0	0		10AUG09		10AUG09	2 0							
02L1CC0422	Design preparation for the DDA submission	30	30	19JUL09	17AUG09	19JUL09	17AUG09	2 0							
02L1CC0423	Design submission for the DC's approval	1	1	18AUG09	18AUG09	18AUG09	18AUG09	1 0							
02L1CC0424	Design (DDA) certification by the Design Checker	28	28	19AUG09	15SEP09	19AUG09	15SEP09	2 0							
02L1CC0426	Design (DDA) submission for the SO's approval	1	1	18AUG09	18AUG09	18AUG09	18AUG09	1 73							
02L1CC0428	Design (DDA) review by the SO	66	66	19AUG09	23OCT09	19AUG09	23OCT09	2 88							
02L1CC0430	DDA submission for rel. authorities' approval	1	1	25AUG09	25AUG09	25AUG09	25AUG09	1 98							
02L1CC0432	Design (DDA) review by the rel. authorities	28	28	26AUG09	22SEP09	26AUG09	22SEP09	2 118							
02L1CC0434	Obtain rel. authorities' approval for DDA	1	1	23SEP09	23SEP09	23SEP09	23SEP09	1 95							
02L1CC0436	SO submit design (DDA) for approval of GEO	1	1	23SEP09	23SEP09	23SEP09	23SEP09	1 0							
02L1CC0438	Design (DDA) review/approval by the GEO	28	28	24SEP09	21OCT09	24SEP09	21OCT09	2 0							
02L1CC0440	Obtain SO's consent for design (DDA)	0	0		23OCT09		23OCT09	2 88							
Permanent Design for MAA/MAS/VDS/DC/AVS															
02L1CC0502	Design preparation for the AIP submission	103	103	26JUN08A	04MAY09A	26JUN08A	04MAY09A	2							
02L1CC0503	Design submission for the DC's approval	2	2	11OCT08A	05MAY09A	11OCT08A	05MAY09A	1							
02L1CC0504	Design (AIP) certification by the Design Checker	28	28	13OCT08A	19MAY09A	13OCT08A	19MAY09A	2							
02L1CC0506	Design (AIP) submission for the SO's approval	4	4	05NOV08A	19MAY09A	05NOV08A	19MAY09A	1							
02L1CC0508	Design (AIP) review by the SO	66	66	06NOV08A	16JUN09	06NOV08A	16JUN09	2 0							
02L1CC0510	AIP submission for rel. authorities' approval	1	1	28FEB09A	28FEB09A	28FEB09A	28FEB09A	1							
02L1CC0512	Design (AIP) review by the rel. authorities	28	28	01MAR09A	28MAY09	01MAR09A	28MAY09	2 18							
02L1CC0514	Obtain rel. authorities' approval for AIP	1	1	29MAY09	29MAY09	29MAY09	29MAY09	1 15							
02L1CC0516	SO submit design (AIP) for approval of GEO	1	1	28FEB09A	28FEB09A	28FEB09A	28FEB09A	1							
02L1CC0518	Design (AIP) review/approval by the GEO	28	28	01MAR09A	28MAY09	01MAR09A	28MAY09	2 19							
02L1CC0520	Obtain SO's consent for design (AIP)	0	0		17JUN09		17JUN09	2 0							

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float						
										2008	2009	2010	2011	2012	2013
02L1CC0522	Design preparation for the DDA submission	30	30	09MAR09A	24JUN09	09MAR09A	24JUN09	2	0						
02L1CC0523	Design submission for the DC's approval	1	1	25JUN09	25JUN09	25JUN09	25JUN09	1	0						
02L1CC0524	Design (DDA) certification by the Design Checker	28	28	26JUN09	23JUL09	26JUN09	23JUL09	2	0						
02L1CC0526	Design (DDA) submission for the SO's approval	1	1	25JUN09	25JUN09	25JUN09	25JUN09	1	152						
02L1CC0528	Design (DDA) review by the SO	66	66	26JUN09	30AUG09	26JUN09	30AUG09	2	183						
02L1CC0530	DDA submission for rel. authorities' approval	1	1	02JUL09	02JUL09	02JUL09	02JUL09	1	177						
02L1CC0532	Design (DDA) review by the rel. authorities	28	28	03JUL09	30JUL09	03JUL09	30JUL09	2	214						
02L1CC0534	Obtain rel. authorities' approval for DDA	1	1	31JUL09	31JUL09	31JUL09	31JUL09	1	174						
02L1CC0536	SO submit design (DDA) for approval of GEO	1	1	31JUL09	31JUL09	31JUL09	31JUL09	1	0						
02L1CC0538	Design (DDA) review/approval by the GEO	28	28	01AUG09	28AUG09	01AUG09	28AUG09	2	0						
02L1CC0540	Obtain SO's consent for design (DDA)	0	0		31AUG09		31AUG09	2	183						
Permanent Design for MA and MAMT Connection															
02L1CC0602	Design preparation for the AIP submission	84	84	01JUL08A	17JUN09	01JUL08A	17JUN09	2	0						
02L1CC0603	Design (AIP) submission for the DC's approval	2	2	25JUL08A	18JUN09	25JUL08A	18JUN09	1	0						
02L1CC0604	Design (AIP) certification by the Design Checker	28	28	26JUL08A	06JUL09	26JUL08A	06JUL09	2	0						
02L1CC0606	Design (AIP) submission for the SO's approval	2	2	26JUL08A	07JUL09	26JUL08A	07JUL09	1	0						
02L1CC0608	Design (AIP) review by the SO	66	66	28JUL08A	08AUG09	28JUL08A	08AUG09	2	0						
02L1CC0610	AIP submission for rel. authorities' approval	1	1	25JUL08A	08AUG08A	25JUL08A	08AUG08A	1							
02L1CC0612	Design (AIP) review by the rel. authorities	28	28	26JUL08A	13JUL09	26JUL08A	13JUL09	2	24						
02L1CC0614	Obtain rel. authorities' approval for AIP	1	1	14JUL09	14JUL09	14JUL09	14JUL09	1	21						
02L1CC0616	SO submit design (AIP) for approval of GEO	1	1	14JUL09	14JUL09	14JUL09	14JUL09	1	0						
02L1CC0618	Design (AIP) review/approval by the GEO	28	28	15JUL09	11AUG09	15JUL09	11AUG09	2	0						
02L1CC0620	Obtain SO's consent for design (AIP)	0	0		09AUG09		09AUG09	2	0						
02L1CC0622	Design preparation for the DDA submission	30	30	18JUL09	16AUG09	18JUL09	16AUG09	2	0						
02L1CC0623	Design (DDA) submission for the DC's approval	1	1	17AUG09	17AUG09	17AUG09	17AUG09	1	0						
02L1CC0624	Design (DDA) certification by the Design Checker	28	28	18AUG09	14SEP09	18AUG09	14SEP09	2	0						
02L1CC0626	Design (DDA) submission for the SO's approval	1	1	17AUG09	17AUG09	17AUG09	17AUG09	1	419						
02L1CC0628	Design (DDA) review by the SO	66	66	18AUG09	22OCT09	18AUG09	22OCT09	2	515						
02L1CC0630	DDA submission for rel. authorities' approval	1	1	24AUG09	24AUG09	24AUG09	24AUG09	1	442						
02L1CC0632	Design (DDA) review by the rel. authorities	28	28	25AUG09	21SEP09	25AUG09	21SEP09	2	546						
02L1CC0634	Obtain rel. authorities' approval for DDA	1	1	22SEP09	22SEP09	22SEP09	22SEP09	1	442						
02L1CC0636	SO submit design (DDA) for approval of GEO	1	1	22SEP09	22SEP09	22SEP09	22SEP09	1	0						
02L1CC0638	Design (DDA) review/approval by the GEO	28	28	23SEP09	20OCT09	23SEP09	20OCT09	2	0						
02L1CC0640	Obtain SO's consent for design (DDA)	0	0		23OCT09		23OCT09	2	515						
Boulder Assessment & Design for Stabili. Measure															
02L1CC0702	Boulder Surevey	30	30	02JUN08A	15AUG08A	02JUN08A	15AUG08A	1							
02L1CC0704	Prepare/submit boulder surevey report	25	25	14JUL08A	05SEP08A	14JUL08A	05SEP08A	1							
02L1CC0706	SO review boulder surevey report	14	14	06SEP08A	19SEP08A	06SEP08A	19SEP08A	2							
Temporary Drainage Management Plan															
02L1CC0802	TDMP preparation by the Designer	14	14	04AUG08A	03SEP08A	04AUG08A	03SEP08A	2							
02L1CC0803	TDMP submission for the DC's approval	1	1	08SEP08A	08SEP08A	08SEP08A	08SEP08A	1							
02L1CC0804	TDMP certification by the Design Checker	28	28	09SEP08A	10DEC08A	09SEP08A	10DEC08A	2							
02L1CC0806	TDMP submission for the SO's approval	2	2	20OCT08A	11DEC08A	20OCT08A	11DEC08A	1							

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
02L1CC0808	TDMP review by the SO	90	90	21OCT08A	08JAN09A	21OCT08A	08JAN09A	2							
02L1CC0810	TDMP submission for DSD's approval	1	1	21OCT08A	21OCT08A	21OCT08A	21OCT08A	1							
02L1CC0812	TDMP review by the DSD	90	90	22OCT08A	08JAN09A	22OCT08A	08JAN09A	2							
02L1CC0814	Obtain DSD's approval for DDA	1	1	08JAN09A	08JAN09A	08JAN09A	08JAN09A	1							
02L1CC0816	Obtain SO's consent for TDMP	0	0		08JAN09A		08JAN09A	2							
ELS for Permanent Approach Channel Construction															
02L1CC0902	Design preparation by the Designer	15	15	03AUG09*	17AUG09	03AUG09*	17AUG09	2	406						
02L1CC0903	Design submission for the DC's approval	1	1	18AUG09	18AUG09	18AUG09	18AUG09	1	330						
02L1CC0904	Design certification by the Design Checker	28	28	19AUG09	15SEP09	19AUG09	15SEP09	2	406						
02L1CC0906	Design submission for the SO's approval	1	1	18AUG09	18AUG09	18AUG09	18AUG09	1	330						
02L1CC0908	Design review by the SO	42	42	19AUG09	29SEP09	19AUG09	29SEP09	2	406						
02L1CC0910	Obtain design approval from the SO	0	0		29SEP09		29SEP09	2	406						
Geotechnical Instrumentation Stg 1 for GL Works															
3DL1CCG102	Design preparation by the Designer	14	14	22FEB08A	29APR08A	22FEB08A	29APR08A	2							
3DL1CCG104	Design certification by the Design Checker	7	7	30APR08A	26MAY08A	30APR08A	26MAY08A	2							
3DL1CCG106	Design submission for the SO's approval	1	1	10MAY08A	26MAY08A	10MAY08A	26MAY08A	1							
3DL1CCG108	Design review by the SO	14	14	12MAY08A	14JUL08A	12MAY08A	14JUL08A	2							
3DL1CCG110	Obtain design approval from the SO	0	0		14JUL08A		14JUL08A	2							
3DL1CCG112	Install Geotechnical Instruments	19	19	24JUN08A	09AUG08A	24JUN08A	09AUG08A	1							
3DL1CCG114	Baseline Monitoring	14	14	26JUL08A	16AUG08A	26JUL08A	16AUG08A	2							
Geotechnical Instrumentation Stg 2 for Deep Exc.															
3DL1CCG202	Design preparation by the Designer	60	60	28AUG08A	04NOV08A	28AUG08A	04NOV08A	2							
3DL1CCG204	Design certification by the Design Checker	14	14	11NOV08A	01DEC08A	11NOV08A	01DEC08A	2							
3DL1CCG206	Design submission for the SO's approval	2	2	04NOV08A	02DEC08A	04NOV08A	02DEC08A	1							
3DL1CCG210	Design review by the SO	28	28	05NOV08A	11JUN09	05NOV08A	11JUN09	2	-76						
3DL1CCG212	Obtain design approval from the SO	0	0		11JUN09		11JUN09	2	-76						
3DL1CCG214	Install Geotechnical Instruments	18	18	14MAR09A	18JUN09	14MAR09A	18JUN09	1	-58						
3DL1CCG216	Baseline Monitoring	14	14	19JUN09	02JUL09	19JUN09	02JUL09	2	-74						
3DL1CCG218	Monitor/report Geotechnical Instrumentation	1,566	1,566	18AUG08A	31DEC12	18AUG08A	31DEC12	2	0						
Design Packages for Works in Portion D															
Temp. Access Rd Design at P. D; +14mPD to +69mPD															
02L1DD0102	Design preparation by the Designer	14	14	17JAN08A	16APR08A	17JAN08A	16APR08A	2							
02L1DD0104	Design certification by the Design Checker	150	150	17APR08A	13SEP08A	17APR08A	13SEP08A	2							
02L1DD0106	Design submission for the SO's approval	2	2	25APR08A	24SEP08A	25APR08A	24SEP08A	1							
02L1DD0108	Design review by the SO	90	90	26APR08A	04FEB09A	26APR08A	04FEB09A	2							
02L1DD0110	Design review by GEO	28	28	23JUN08A	29NOV08A	23JUN08A	29NOV08A	2							
02L1DD0112	Obtain design approval from the SO	0	0		04FEB09A		04FEB09A	2							
Boulder Assessment & Design for Stabili. Measure															
02L1DD0302	Boulder Survey	14	14	03APR08A	11APR08A	03APR08A	11APR08A	1							
02L1DD0304	Prepare/submit boulder survey report	25	25	12APR08A	26MAY08A	12APR08A	26MAY08A	1							
02L1DD0306	SO review boulder survey report	14	14	27MAY08A	16JUN08A	27MAY08A	16JUN08A	2							
Site Formation Design; +69mPD to +40mPD															
02L1DD0402	Design preparation by the Designer	14	14	17JAN08A	16APR08A	17JAN08A	16APR08A	2							

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
02L1DD0404	Design certification by the Design Checker	150	150	17APR08A	14NOV08A	17APR08A	14NOV08A	2							
02L1DD0406	Design submission for the SO's approval	2	2	25APR08A	14NOV08A	25APR08A	14NOV08A	1							
02L1DD0408	Design review by the SO	90	90	26APR08A	04DEC08A	26APR08A	04DEC08A	2							
02L1DD0412	Obtain design approval from the SO	0	0		04DEC08A		04DEC08A	2							
Site Formation Design; +40mPD to +24mPD															
02L1DD0502	Design preparation by the Designer	120	120	14APR08A	09MAY09A	14APR08A	09MAY09A	2							
02L1DD0504	Design certification by the Design Checker	145	145	05MAY08A	15MAY09A	05MAY08A	15MAY09A	2							
02L1DD0506	Design submission for the SO's approval	2	2	10MAY08A	16MAY09A	10MAY08A	16MAY09A	1							
02L1DD0508	Design review by the SO	90	90	12MAY08A	03JUN09	12MAY08A	03JUN09	2	-201						
02L1DD0512	Obtain design approval from the SO	0	0		03JUN09		03JUN09	2	-201						
Site Formation Design; +24mPD to 14mPD															
02L1DD0602	Design preparation by the Designer	60	60	28AUG08A	23APR09A	28AUG08A	23APR09A	2							
02L1DD0603	Design submission for the DC's approval	2	2	16JAN09A	24APR09A	16JAN09A	24APR09A	1							
02L1DD0604	Design certification by the Design Checker	28	28	19JAN09A	15MAY09A	19JAN09A	15MAY09A	2							
02L1DD0606	Design submission for the SO's approval	2	2	02FEB09A	15MAY09A	02FEB09A	15MAY09A	1							
02L1DD0608	Design review by the SO	63	63	03FEB09A	18JUN09	03FEB09A	18JUN09	2	-213						
02L1DD0610	Design review by GEO	28	28	28MAY09	24JUN09	28MAY09	24JUN09	2	0						
02L1DD0612	Obtain design approval from the SO	0	0		18JUN09		18JUN09	2	-213						
TBM Launching Chamber Design															
02L1DD0702	Design (AIP) preparation by the Designer	381	381	21APR08A	11MAY09A	21APR08A	11MAY09A	2							
02L1DD0703	Design (AIP) submission for the DC's approval	3	3	28JUL08A	12MAY09A	28JUL08A	12MAY09A	1							
02L1DD0704	Design (AIP) certification by the Design Checker	37	37	21AUG08A	13MAY09A	21AUG08A	13MAY09A	2							
02L1DD0706	Design (AIP) submission for the SO's approval	3	3	28JUL08A	13MAY09A	28JUL08A	13MAY09A	1							
02L1DD0708	Design (AIP) review by the SO	280	280	29JUL08A	19MAY09A	29JUL08A	19MAY09A	2							
02L1DD0710	AIP submission for rel. authorities' approval	1	1	28AUG08A	28AUG08A	28AUG08A	28AUG08A	1							
02L1DD0712	Design (AIP) review by the rel. authorities	28	28	28FEB09A	27MAR09A	28FEB09A	27MAR09A	2							
02L1DD0714	Obtain rel. authorities's approval for AIP	0	0		19MAY09A		19MAY09A	1							
02L1DD0716	SO submit Design (AIP) for approval of GEO	1	1	28FEB09A	28FEB09A	28FEB09A	28FEB09A	1							
02L1DD0718	Design (AIP) review/approval by the GEO	28	28	01MAR09A	28MAY09	01MAR09A	28MAY09	2	-176						
02L1DD0720	Obtain SO's consent for design (AIP)	0	0		19MAY09A		19MAY09A	2							
02L1DD0722	Design preparation for the DDA submission	30	30	07MAR09A	05JUN09	07MAR09A	05JUN09	2	-183						
02L1DD0723	Design (DDA) submission for the DC's approval	1	1	06JUN09	06JUN09	06JUN09	06JUN09	1	-142						
02L1DD0724	Design (DDA) certification by the Design Checker	28	28	07JUN09	04JUL09	07JUN09	04JUL09	2	-180						
02L1DD0726	Design (DDA) submission for the SO's approval	1	1	06JUN09	06JUN09	06JUN09	06JUN09	1	-144						
02L1DD0728	Design (DDA) review by the SO	66	66	07JUN09	11AUG09	07JUN09	11AUG09	2	-183						
02L1DD0730	DDA submission for rel. authorities' approval	1	1	13JUN09	13JUN09	13JUN09	13JUN09	1	0						
02L1DD0732	Design (DDA) review by the rel. authorities	28	28	14JUN09	11JUL09	14JUN09	11JUL09	2	1						
02L1DD0734	Obtain rel. authorities's approval for DDA	1	1	13JUL09	13JUL09	13JUL09	13JUL09	1	0						
02L1DD0736	SO submit design (DDA) for approval of GEO	1	1	13JUL09	13JUL09	13JUL09	13JUL09	1	0						
02L1DD0738	Design (DDA) review/approval by the GEO	28	28	14JUL09	10AUG09	14JUL09	10AUG09	2	0						
02L1DD0740	Obtain SO's consent for design (DDA)	0	0		12AUG09		12AUG09	2	-183						
Hopper Design															
02L1DD0802	Design preparation by the Designer	119	119	28FEB09A	26JUN09	28FEB09A	26JUN09	2	-212						

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
02L1DD0803	Design submission for the DC's approval	1	1	27JUN09	27JUN09	27JUN09	27JUN09	1	-169					
02L1DD0804	Design certification by the Design Checker	28	28	28JUN09	25JUL09	28JUN09	25JUL09	2	-212					
02L1DD0805	Design submission for the SO's approval	1	1	27JUN09	27JUN09	27JUN09	27JUN09	1	-169					
02L1DD0808	Design review by the SO	42	42	28JUN09	08AUG09	28JUN09	08AUG09	2	-212					
02L1DD0810	Obtain design approval from the SO	0	0		08AUG09		08AUG09	2	-212					
Steel Platform Design														
02L1DD0902	Design preparation by the Designer	82	82	02JAN09A	24MAR09A	02JAN09A	24MAR09A	2						
02L1DD0903	Design submission for the DC's approval	1	1	25MAR09A	25MAR09A	25MAR09A	25MAR09A	1						
02L1DD0904	Design certification by the Design Checker	28	28	26MAR09A	08JUN09	26MAR09A	08JUN09	2	-194					
02L1DD0906	Design submission for the SO's approval	1	1	09JUN09	09JUN09	09JUN09	09JUN09	1	-153					
02L1DD0908	Design review by the SO	42	42	10JUN09	21JUL09	10JUN09	21JUL09	2	-194					
02L1DD0910	Obtain design approval from the SO	0	0		21JUL09		21JUL09	2	-194					
Overhead Gantry Support & Noise Enclosure Design														
02L1DD1002	Design preparation by the Designer	82	82	02JAN09A	14JUN09	02JAN09A	14JUN09	2	-157					
02L1DD1003	Design submission for the DC's approval	1	1	15JUN09	15JUN09	15JUN09	15JUN09	1	-124					
02L1DD1004	Design certification by the Design Checker	28	28	16JUN09	13JUL09	16JUN09	13JUL09	2	-157					
02L1DD1006	Design submission for the SO's approval	1	1	15JUN09	15JUN09	15JUN09	15JUN09	1	-124					
02L1DD1008	Design review by the SO	42	42	16JUN09	27JUL09	16JUN09	27JUL09	2	-157					
02L1DD1010	Obtain design approval from the SO	0	0		27JUL09		27JUL09	2	-157					
ELS Design for Spiral Ramp & Vehicular Access														
02L1DD1102	Design preparation for the AIP submission	30	30	28MAY09	26JUN09	28MAY09	26JUN09	2	130					
02L1DD1103	Design (DDA) submission for the DC's approval	1	1	27JUN09	27JUN09	27JUN09	27JUN09	1	109					
02L1DD1104	Design (DDA) certification by the Design Checker	28	28	28JUN09	25JUL09	28JUN09	25JUL09	2	132					
02L1DD1106	Design (DDA) submission for the SO's approval	1	1	27JUN09	27JUN09	27JUN09	27JUN09	1	107					
02L1DD1108	Design (DDA) review by the SO	66	66	28JUN09	01SEP09	28JUN09	01SEP09	2	130					
02L1DD1110	DDA submission for rel. authorities' approval	1	1	04JUL09	04JUL09	04JUL09	04JUL09	1	134					
02L1DD1112	Design (DDA) review by the rel. authorities	28	28	05JUL09	01AUG09	05JUL09	01AUG09	2	160					
02L1DD1114	Obtain rel. authorities' approval for DDA	1	1	03AUG09	03AUG09	03AUG09	03AUG09	1	131					
02L1DD1116	SO submit design (DDA) for approval of GEO	1	1	03AUG09	03AUG09	03AUG09	03AUG09	1	110					
02L1DD1118	Design (DDA) review/approval by the GEO	28	28	04AUG09	31AUG09	04AUG09	31AUG09	2	131					
02L1DD1120	Obtain SO's consent for design (DDA)	0	0		02SEP09		02SEP09	2	130					
ELS Design for Box Culvert & Open Channel														
02L1DD1202	Design preparation for the AIP submission	30	30	27JUN09	26JUL09	27JUN09	26JUL09	2	1,550					
02L1DD1203	Design (DDA) submission for the DC's approval	1	1	27JUL09	27JUL09	27JUL09	27JUL09	1	1,260					
02L1DD1204	Design (DDA) certification by the Design Checker	28	28	28JUL09	24AUG09	28JUL09	24AUG09	2	1,551					
02L1DD1206	Design (DDA) submission for the SO's approval	1	1	27JUL09	27JUL09	27JUL09	27JUL09	1	1,259					
02L1DD1208	Design (DDA) review by the SO	66	66	28JUL09	01OCT09	28JUL09	01OCT09	2	1,550					
02L1DD1210	DDA submission for rel. authorities' approval	1	1	03AUG09	03AUG09	03AUG09	03AUG09	1	1,285					
02L1DD1212	Design (DDA) review by the rel. authorities	28	28	04AUG09	31AUG09	04AUG09	31AUG09	2	1,581					
02L1DD1214	Obtain rel. authorities' approval for DDA	1	1	01SEP09	01SEP09	01SEP09	01SEP09	1	1,283					
02L1DD1216	SO submit design (DDA) for approval of GEO	1	1	01SEP09	01SEP09	01SEP09	01SEP09	1	1,260					
02L1DD1218	Design (DDA) review/approval by the GEO	28	28	02SEP09	29SEP09	02SEP09	29SEP09	2	1,552					
02L1DD1220	Obtain SO's consent for design (DDA)	0	0		02OCT09		02OCT09	2	1,550					

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Temporary Drainage Management Plan															
02L1DD1302	TDMP preparation by the Designer	225	225	05MAY08A	27MAR09A	05MAY08A	27MAR09A	2							
02L1DD1303	TDMP submission for the DC's approval	2	2	08AUG08A	29MAY09	08AUG08A	29MAY09	1	10						
02L1DD1304	TDMP certification by the Design Checker	28	28	09AUG08A	06JUN09	09AUG08A	06JUN09	2	12						
02L1DD1306	TDMP submission for the SO's approval	2	2	08AUG08A	08JUN09	08AUG08A	08JUN09	1	16						
02L1DD1308	TDMP review by the SO	90	90	08AUG08A	04JUL09	08AUG08A	04JUL09	2	12						
02L1DD1310	TDMP submission for DSD's approval	1	1	17NOV08A	17NOV08A	17NOV08A	17NOV08A	1							
02L1DD1312	TDMP review by the DSD	90	90	18NOV08A	16JUL09	18NOV08A	16JUL09	2	0						
02L1DD1314	Obtain DSD's approval for DDA	1	1	17JUL09	17JUL09	17JUL09	17JUL09	1	0						
02L1DD1316	Obtain SO's consent for TDMP	0	0		17JUL09		17JUL09	2	0						
Geotechnical Instrumentation Stg 1 for GL Works															
3DL1DDG102	Design preparation by the Designer	14	14	22FEB08A	24APR08A	22FEB08A	24APR08A	2							
3DL1DDG104	Design certification by the Design Checker	7	7	25APR08A	16JUN08A	25APR08A	16JUN08A	2							
3DL1DDG106	Design submission for the SO's approval	1	1	25APR08A	16JUN08A	25APR08A	16JUN08A	1							
3DL1DDG108	Design review by the SO	14	14	26APR08A	14JUL08A	26APR08A	14JUL08A	2							
3DL1DDG110	Obtain design approval from the SO	0	0		14JUL08A		14JUL08A	2							
3DL1DDG112	Install Geotechnical Instruments	10	10	04JUN08A	05JUL08A	04JUN08A	05JUL08A	1							
3DL1DDG114	Initial reading	14	14	18JUN08A	09JUL08A	18JUN08A	09JUL08A	2							
Geotechnical Instrumentation Stg 2 for Deep Exc.															
3DL1DDG202	Design preparation by the Designer	14	14	28MAY09*	10JUN09	28MAY09*	10JUN09	2	195						
3DL1DDG204	Design certification by the Design Checker	14	14	11JUN09	24JUN09	11JUN09	24JUN09	2	195						
3DL1DDG206	Design submission for the SO's approval	1	1	11JUN09	11JUN09	11JUN09	11JUN09	1	163						
3DL1DDG208	Design review by the SO	28	28	12JUN09	09JUL09	12JUN09	09JUL09	2	195						
3DL1DDG210	Obtain design approval from the SO	0	0		09JUL09		09JUL09	2	195						
3DL1DDG212	Install Geotechnical Instruments	18	18	10JUL09	30JUL09	10JUL09	30JUL09	1	161						
3DL1DDG214	Baseline Monitoring	14	14	31JUL09	13AUG09	31JUL09	13AUG09	2	195						
3DL1DDG216	Monitor/report Geotechnical Instrumentation	1,605	1,605	10JUL08A	31DEC12	10JUL08A	31DEC12	2	0						
Design Packages for Works in Portion F															
Main Tunnel Design															
02L1FF0102	Design preparation for the AIP submission	414	414	08FEB08A	27MAR09A	08FEB08A	27MAR09A	2							
02L1FF0103	Design (AIP) submission for the DC's approval	2	2	02MAY08A	27MAR09A	02MAY08A	27MAR09A	1							
02L1FF0104	Design (AIP) certification by the Design Checker	28	28	03MAY08A	27MAR09A	03MAY08A	27MAR09A	2							
02L1FF0106	Design (AIP) submission for the SO's approval	1	1	10JUL08A	27MAR09A	10JUL08A	27MAR09A	1							
02L1FF0108	Design (AIP) review by the SO	66	66	11JUL08A	03JUN09	11JUL08A	03JUN09	2	-176						
02L1FF0110	AIP submission for rel. authorities' approval	1	1	08JUL08A	08JUL08A	08JUL08A	08JUL08A	1							
02L1FF0112	Design (AIP) review by the rel. authorities	28	28	09JUL08A	05MAR09A	09JUL08A	05MAR09A	2							
02L1FF0114	Obtain rel. authorities' approval for AIP	1	1	06MAR09A	06MAR09A	06MAR09A	06MAR09A	1							
02L1FF0116	SO submit design (AIP) for approval of GEO	1	1	29MAY09	29MAY09	29MAY09	29MAY09	1	0						
02L1FF0118	Design (AIP) review/approval by the GEO	28	28	30MAY09	26JUN09	30MAY09	26JUN09	2	0						
02L1FF0120	Obtain SO's consent for design (AIP)	0	0		04JUN09		04JUN09	2	-176						
02L1FF0122	Design preparation for the DDA submission	30	30	04NOV08A	11JUN09	04NOV08A	11JUN09	2	-176						
02L1FF0123	Design (DDA) submission for the DC's approval	1	1	12JUN09	12JUN09	12JUN09	12JUN09	1	-138						
02L1FF0124	Design (DDA) certification by the Design Checker	28	28	13JUN09	10JUL09	13JUN09	10JUL09	2	-176						

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
02L1FF0126	Design (DDA) submission for the SO's approval	1	1	12JUN09	12JUN09	12JUN09	12JUN09	1	-136						
02L1FF0128	Design (DDA) review by the SO	56	56	16JUN09	10AUG09	16JUN09	10AUG09	2	-176						
02L1FF0130	DDA submission for rel. authorities' approval	1	1	19JUN09	19JUN09	19JUN09	19JUN09	1	-121						
02L1FF0132	Design (DDA) review by the rel. authorities	28	28	20JUN09	17JUL09	20JUN09	17JUL09	2	-152						
02L1FF0134	Obtain rel. authorities' approval for DDA	1	1	18JUL09	18JUL09	18JUL09	18JUL09	1	-123						
02L1FF0136	SO submit design (DDA) for approval of GEO	1	1	13JUL09	13JUL09	13JUL09	13JUL09	1	-140						
02L1FF0138	Design (DDA) review/approval by the GEO	28	28	14JUL09	10AUG09	14JUL09	10AUG09	2	-176						
02L1FF0140	Obtain SO's consent for design (DDA)	0	0		11AUG09		11AUG09	2	-176						
Impact Assessment on WSD Yau Kam Tau WTW															
02L1FF0202	Design preparation for the DDA submission	60	60	29APR08A	30JUN08A	29APR08A	30JUN08A	2							
02L1FF0203	Design (DDA) submission for the DC's approval	1	1	03JUL08A	03JUL08A	03JUL08A	03JUL08A	1							
02L1FF0204	Design (DDA) certification by the Design Checker	260	260	04JUL08A	18MAR09A	04JUL08A	18MAR09A	2							
02L1FF0206	Design (DDA) submission for the SO's approval	1	1	15JUL08A	18MAR09A	15JUL08A	18MAR09A	1							
02L1FF0208	Design (DDA) review by the SO	66	66	16JUL08A	31MAR09A	16JUL08A	31MAR09A	2							
02L1FF0210	DDA submission for rel. authorities' approval	1	1	10JUL08A	02APR09A	10JUL08A	02APR09A	1							
02L1FF0212	Design (DDA) review by the rel. authorities	28	28	11JUL08A	10JUN09	11JUL08A	10JUN09	2	0						
02L1FF0214	Obtain rel. authorities' approval for DDA	1	1	11JUN09	11JUN09	11JUN09	11JUN09	1	0						
02L1FF0220	Obtain SO's consent for design (DDA)	0	0		31MAR09A		31MAR09A	2							
Impact Assessment on WSD Tai Lam Chung WT No. 3															
02L1FF0302	Design preparation for the DDA submission	32	32	14APR08A	27JUN08A	14APR08A	27JUN08A	2							
02L1FF0303	Design submission for the DC's approval	1	1	27JUN08A	27JUN08A	27JUN08A	27JUN08A	1							
02L1FF0304	Design (DDA) certification by the Design Checker	285	285	28JUN08A	08JUN09	28JUN08A	08JUN09	2	0						
02L1FF0306	Design (DDA) submission for the SO's approval	1	1	15JUL08A	15JUL08A	15JUL08A	15JUL08A	1							
02L1FF0308	Design (DDA) review by the SO	66	66	16JUL08A	13JUL09	16JUL08A	13JUL09	2	0						
02L1FF0310	DDA submission for rel. authorities' approval	1	1	10JUL08A	10JUL08A	10JUL08A	10JUL08A	1							
02L1FF0312	Design (DDA) review by the rel. authorities	28	28	11JUL08A	15JUN09	11JUL08A	15JUN09	2	28						
02L1FF0314	Obtain rel. authorities' approval for DDA	1	1	16JUN09	16JUN09	16JUN09	16JUN09	1	23						
02L1FF0316	SO submit design (DDA) for approval of GEO	1	1	16JUN09	16JUN09	16JUN09	16JUN09	1	0						
02L1FF0318	Design (DDA) review/approval by the GEO	28	28	17JUN09	14JUL09	17JUN09	14JUL09	2	0						
02L1FF0320	Obtain SO's consent for design (DDA)	0	0		14JUL09		14JUL09	2	0						
Impact Assessment on KCRC West Rail Tunnel															
02L1FF0402	Design preparation for the DDA submission	30	30	28APR08A	26JUN08A	28APR08A	26JUN08A	2							
02L1FF0403	Design submission for the DC's approval	1	1	26JUN08A	26JUN08A	26JUN08A	26JUN08A	1							
02L1FF0404	Design (DDA) certification by the Design Checker	90	90	27JUN08A	02APR09A	27JUN08A	02APR09A	2							
02L1FF0406	Design (DDA) submission for the SO's approval	2	2	15JUL08A	03APR09A	15JUL08A	03APR09A	1							
02L1FF0408	Design (DDA) review by the SO	267	267	16JUL08A	08JUN09	16JUL08A	08JUN09	2	133						
02L1FF0410	DDA submission for rel. authorities' approval	1	1	14JUL08A	14JUL08A	14JUL08A	14JUL08A	1							
02L1FF0412	Design (DDA) review by the rel. authorities	28	28	15JUL08A	11MAR09A	15JUL08A	11MAR09A	2							
02L1FF0414	Obtain rel. authorities' approval for DDA	1	1	12MAR09A	11MAR09A	12MAR09A	11MAR09A	1							
02L1FF0416	SO submit design (DDA) for approval of GEO	1	1	29MAY09	29MAY09	29MAY09	29MAY09	1	97						
02L1FF0418	Design (DDA) review/approval by the GEO	28	28	30MAY09	26JUN09	30MAY09	26JUN09	2	115						
02L1FF0420	Obtain SO's consent for design (DDA)	0	0		27JUN09		27JUN09	2	115						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Impact Assessment on WSD Tsuen Wan Reservoir G.															
02L1FF0502	Design preparation for the DDA submission	30	30	05MAY08A	02JUL08A	05MAY08A	02JUL08A	2							
02L1FF0503	Design submission for the DC's approval	1	1	03JUL08A	03JUL08A	03JUL08A	03JUL08A	1							
02L1FF0504	Design (DDA) certification by the Design Checker	260	260	04JUL08A	01APR09A	04JUL08A	01APR09A	2							
02L1FF0506	Design (DDA) submission for the SO's approval	2	2	15JUL08A	01APR09A	15JUL08A	01APR09A	1							
02L1FF0508	Design (DDA) review by the SO	60	60	16JUL08A	16JUN09	16JUL08A	16JUN09	2	221						
02L1FF0510	DDA submission for rel. authorities' approval	1	1	10JUL08A	10JUL08A	10JUL08A	10JUL08A	1							
02L1FF0512	Design (DDA) review by the rel. authorities	28	28	11JUL08A	10JUN09	11JUL08A	10JUN09	2	226						
02L1FF0514	Obtain rel. authorities' approval for DDA	1	1	11JUN09	11JUN09	11JUN09	11JUN09	1	187						
02L1FF0520	Obtain SO's consent for design (DDA)	0	0		17JUN09		17JUN09	2	221						
Grout Trial at Fout Zone F1															
02L1FF0602	MS preparation for the DDA submission	12	12	02MAY08A	20MAY08A	02MAY08A	20MAY08A	2							
02L1FF0606	MS (DDA) submission for the SO's approval	1	1	21MAY08A	21MAY08A	21MAY08A	21MAY08A	1							
02L1FF0608	MS (DDA) review by the SO	24	24	22MAY08A	17JUL08A	22MAY08A	17JUL08A	2							
02L1FF0620	Obtain SO's consent for MS (DDA)	0	0		17JUL08A		17JUL08A	2							
Geotechnical Instrumentation															
3DL1FFGI02	Design preparation by the Designer	60	60	28AUG08A	23JAN09A	28AUG08A	23JAN09A	2							
3DL1FFGI04	Design certification by the Design Checker	14	14	24JAN09A	10JUN09	24JAN09A	10JUN09	2	-195						
3DL1FFGI06	Design submission for the SO's approval	2	2	24JAN09A	26MAR09A	24JAN09A	26MAR09A	1							
3DL1FFGI08	Design review by the SO	56	56	24JAN09A	20JUN09	24JAN09A	20JUN09	2	-160						
3DL1FFGI10	DDA submission for rel. authorities' approval	1	1	14MAR09A	14MAR09A	14MAR09A	14MAR09A	1							
3DL1FFGI12	Design (DDA) review by the rel. authorities	56	56	15MAR09A	23JUL09	15MAR09A	23JUL09	2	-195						
3DL1FFGI14	Obtain rel. authorities' approval for DDA	1	1	24JUL09	24JUL09	24JUL09	24JUL09	1	-156						
3DL1FFGI16	Obtain design approval from the SO	0	0		24JUL09		24JUL09	2	-194						
3DL1FFGI18	Install geotechnical instrumentation	90	90	25JUL09	10NOV09	25JUL09	10NOV09	1	-156						
3DL1FFGI20	Baseline Monitoring	14	14	11NOV09	24NOV09	11NOV09	24NOV09	2	-188						
3DL1FT0208	Maintain/monitor geotechnical instrumentation	1,200	1,200	25NOV09	08MAR13	25NOV09	08MAR13	2	-188						
Design Packages for Works in Portion G															
Drainage Impact Assessment															
02L1GG0105	Quotation and award consultant	24	24	22JUN09*	20JUL09	22JUN09*	20JUL09	1	182						
02L1GG0115	Prepare preliminary DIA report	36	36	21JUL09	31AUG09	21JUL09	31AUG09	1	182						
02L1GG0125	Prepare final DIA report	12	12	01SEP09	14SEP09	01SEP09	14SEP09	1	182						
02L1GG0135	Submission of DIA report to SOR/DSD	1	1	15SEP09	15SEP09	15SEP09	15SEP09	1	186						
02L1GG0145	SOR/DSD review/comment DIA report	28	28	22SEP09	19OCT09	22SEP09	19OCT09	2	227						
02L1GG0155	Revise DIA incorporating comments	12	12	20OCT09	03NOV09	20OCT09	03NOV09	1	182						
02L1GG0165	SOR/DSD review/approve DIA report	21	21	04NOV09	24NOV09	04NOV09	24NOV09	2	227						
02L1GG0175	Obtain consent from SOR and DSD	0	0		24NOV09		24NOV09	2	227						
Temp. Platform Design for H-Piling at Portion G															
02L1GG0202	Design preparation for the DDA submission	30	30	21JUL09	19AUG09	21JUL09	19AUG09	2	261						
02L1GG0203	Design (DDA) submission for the DC's approval	1	1	20AUG09	20AUG09	20AUG09	20AUG09	1	211						
02L1GG0204	Design (DDA) certification by the Design Checker	28	28	21AUG09	17SEP09	21AUG09	17SEP09	2	263						
02L1GG0206	Design (DDA) submission for the SO's approval	1	1	20AUG09	20AUG09	20AUG09	20AUG09	1	210						
02L1GG0208	Design (DDA) review by the SO	58	58	21AUG09	17OCT09	21AUG09	17OCT09	2	261						

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ID	Activity Description	DB4 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
02L1GG0210	DDA submission for rel. authorities' approval	1	1	27AUG09	27AUG09	27AUG09	27AUG09	1 228						
02L1GG0212	Design (DDA) review by the rel. authorities	28	28	28AUG09	24SEP09	28AUG09	24SEP09	2 284						
02L1GG0214	Obtain rel. authorities' approval for DDA	1	1	25SEP09	25SEP09	25SEP09	25SEP09	1 226						
02L1GG0228	Obtain design (DDA) approval from the SO	0	0		18OCT09		18OCT09	2 261						
ELS Design for Pipe Jacking at Portion G														
02L1GG0302	Design preparation for the DDA submission	15	15	20AUG09	03SEP09	20AUG09	03SEP09	2 284						
02L1GG0303	Design (DDA) submission for the DC's approval	1	1	04SEP09	04SEP09	04SEP09	04SEP09	1 229						
02L1GG0304	Design (DDA) certification by the Design Checker	28	28	05SEP09	02OCT09	05SEP09	02OCT09	2 286						
02L1GG0306	Design (DDA) submission for the SO's approval	1	1	04SEP09	04SEP09	04SEP09	04SEP09	1 228						
02L1GG0308	Design (DDA) review by the SO	58	58	05SEP09	01NOV09	05SEP09	01NOV09	2 284						
02L1GG0310	DDA submission for rel. authorities' approval	1	1	11SEP09	11SEP09	11SEP09	11SEP09	1 246						
02L1GG0314	Design (DDA) review by the rel. authorities	28	28	12SEP09	09OCT09	12SEP09	09OCT09	2 307						
02L1GG0316	Obtain rel. authorities' approval for DDA	1	1	10OCT09	10OCT09	10OCT09	10OCT09	1 248						
02L1GG0318	Obtain design (DDA) approval from the SO	0	0		02NOV09		02NOV09	2 284						
Schedule of Milestones for Cost Centre No. 2L														
02L10D1002	2L 1; On submission of PDP to the SO	0	0		10JAN08A		10JAN08A	2						
02L10D1004	2L 2; On acceptance of PDP by the SO	0	0		04SEP08A		04SEP08A	2						
02L10D1006	2L 3; On submission of AIP to the SO; Portion A	0	0		12MAY09A		12MAY09A	2						
02L10D1008	2L 4; On acceptance of AIP by the SO; Portion A	0	0		25JUL09		25JUL09	2 1,619						
02L10D1010	2L 5; On submission of DDA to the SO; Portion A	0	0		28SEP09		28SEP09	2 1,554						
02L10D1012	2L 6; On acceptance of DDA by the SO; Portion A	0	0		10OCT09		10OCT09	2 1,542						
02L10D1014	2L 7; On submission of AIP to the SO; Portion B	0	0		07JUL09		07JUL09	2 1,637						
02L10D1016	2L 8; On acceptance of AIP by the SO; Portion B	0	0		12AUG09		12AUG09	2 1,601						
02L10D1018	2L 9; On submission of DDA to the SO; Portion B	0	0		28SEP09		28SEP09	2 1,554						
02L10D1020	2L 10; On acceptance of DDA by the SO; Portion B	0	0		26OCT09		26OCT09	2 1,526						
02L10D1022	2L 11; On submission of AIP to the SO; Portion C	0	0		25JUL09		25JUL09	2 1,619						
02L10D1024	2L 12; On acceptance of AIP by the SO; Portion C	0	0		10AUG09		10AUG09	2 1,603						
02L10D1026	2L 13; On submission of DDA to the SO; Portion C	0	0		28SEP09		28SEP09	2 1,554						
02L10D1028	2L 14; On acceptance of DDA by the SO; Portion C	0	0		23OCT09		23OCT09	2 1,529						
02L10D1030	2L 15; On acceptance of AIP by the SO; Portion D	0	0		25JUL09		25JUL09	2 1,619						
02L10D1032	2L 16; On acceptance of DDA by the SO; Portion D	0	0		10OCT09		10OCT09	2 1,542						
02L10D1034	2L 17; On submission of AIP to the SO; Portion F	0	0		13JUL09		13JUL09	2 1,631						
02L10D1036	2L 18; On acceptance of AIP by the SO; Portion F	0	0		19SEP09		19SEP09	2 1,563						
02L10D1038	2L 19; On submission of DDA to the SO; Portion F	0	0		28SEP09		28SEP09	2 1,554						
02L10D1040	2L 20; On acceptance of DDA by the SO; Portion F	0	0		05DEC09		05DEC09	2 1,486						
02L10D1042	2L 21; On acceptance of AIP by the SO; Portion G	0	0		27MAY09		27MAY09	2 1,678						
02L10D1044	2L 22; On acceptance of DDA by the SO; Portion G	0	0		24NOV09		24NOV09	2 1,497						
02L10D1046	2L 23; On completion of all works under this CC	0	0		24NOV09		24NOV09	2 1,497						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Construction of Main Tunnel															
Trial Grout at Fault Zone F1															
3AL1FT0002	HyD issue XP	0	0		23JUL08A		23JUL08A	2							
3AL1FT0004	Advance notice to HyD/Road advice	6	6	24JUL08A	30JUL08A	24JUL08A	30JUL08A	1							
3AL1FT0006	Trial pit excavation	4	4	31JUL08A	04AUG08A	31JUL08A	04AUG08A	1							
3AL1FT0010	Scaffolding, mobilize & set up	7	7	05AUG08A	13AUG08A	05AUG08A	13AUG08A	1							
3AL1FT0012	Drill & test for 2m Arrangement Test	45	45	14AUG08A	15NOV08A	14AUG08A	15NOV08A	1							
3AL1FT0014	Backfill drilled holes, demobilization & Tidy up	6	6	17NOV08A	22NOV08A	17NOV08A	22NOV08A	1							
3AL1FT0016	Drill & test for single hole arrangement test	17	17	11AUG08A	04SEP08A	11AUG08A	04SEP08A	1							
3AL1FT0018	Backfill drilled hole, demobilization & tidy up	1	1	05SEP08A	05SEP08A	05SEP08A	05SEP08A	1							
TBM Manufacture/Testing/Delivery															
Manufacture of TBM & Back-ups															
3AL1FT0302	TBM & Excavation Sys Procurement	30	30	14DEC07A	12JAN08A	14DEC07A	12JAN08A	2							
3AL1FT0304	TBM design & manufacturing	252	252	21DEC07A	28SEP08A	21DEC07A	28SEP08A	2							
3AL1FT0306	TBM workshop tests	7	7	04OCT08A	08OCT08A	04OCT08A	08OCT08A	2							
3AL1FT0308	TBM dismounting & packing	21	21	09OCT08A	24DEC08A	09OCT08A	24DEC08A	2							
Delivery of TBM															
3AL1FT0105	TBM shipment to Hong Kong	30	30	06JUL09*	04AUG09	06JUL09*	04AUG09	2	-161						
3AL1FT0110	TBM arriving Portion I	3	3	05AUG09	07AUG09	05AUG09	07AUG09	1	-130						
3AL1FT0115	Destuffing Containers/Cleaning & lubrication	24	24	08AUG09	04SEP09	08AUG09	04SEP09	1	-130						
TBM Pre-assembly/Test & Commis. at Portion I															
3AL1FT0205	Cutterhead	7	7	05SEP09	12SEP09	05SEP09	12SEP09	1	-130						
3AL1FT0210	Bearing	6	6	05SEP09	11SEP09	05SEP09	11SEP09	1	-129						
3AL1FT0215	Backup # 1	6	6	12SEP09	18SEP09	12SEP09	18SEP09	1	-122						
3AL1FT0220	Backup # 2	5	5	14SEP09	18SEP09	14SEP09	18SEP09	1	-121						
3AL1FT0225	Backup # 3	5	5	19SEP09	24SEP09	19SEP09	24SEP09	1	-122						
3AL1FT0230	Backup # 4	5	5	19SEP09	24SEP09	19SEP09	24SEP09	1	-121						
3AL1FT0240	Backup # 5	5	5	25SEP09	30SEP09	25SEP09	30SEP09	1	-122						
3AL1FT0245	Backup # 6	5	5	25SEP09	30SEP09	25SEP09	30SEP09	1	-121						
3AL1FT0250	Backup # 7	5	5	02OCT09	08OCT09	02OCT09	08OCT09	1	-80						
3AL1FT0255	Backup # 8	5	5	02OCT09	08OCT09	02OCT09	08OCT09	1	-77						
3AL1FT0260	Backup # 9	5	5	09OCT09	14OCT09	09OCT09	14OCT09	1	-79						
3AL1FT0365	Backup # 10	5	5	09OCT09	14OCT09	09OCT09	14OCT09	1	-76						
3AL1FT0370	Backup # 11	5	5	15OCT09	20OCT09	15OCT09	20OCT09	1	-78						
3AL1FT0375	Backup # 12	5	5	15OCT09	20OCT09	15OCT09	20OCT09	1	-75						
TBM Transport from Portion I to Outfall															
3AL1FT0405	Cutterhead	1	1	02JAN10	02JAN10	02JAN10	02JAN10	1	-219						
3AL1FT0415	Shield # 1	1	1	04JAN10	04JAN10	04JAN10	04JAN10	1	-210						
3AL1FT0425	Shield # 2	1	1	05JAN10	05JAN10	05JAN10	05JAN10	1	-210						
3AL1FT0435	Bearing	1	1	06JAN10	06JAN10	06JAN10	06JAN10	1	-210						
3AL1FT0445	Erector	1	1	07JAN10	07JAN10	07JAN10	07JAN10	1	-210						

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
3AL1FT0455	Conveyor	1	1	08JAN10	08JAN10	08JAN10	08JAN10	1	-210						
3AL1FT0465	Backup # 1	1	1	09JAN10	09JAN10	09JAN10	09JAN10	1	-210						
3AL1FT0475	Backup # 2	1	1	11JAN10	11JAN10	11JAN10	11JAN10	1	-208						
3AL1FT0485	Backup # 3	1	1	12JAN10	12JAN10	12JAN10	12JAN10	1	-206						
3AL1FT0495	Backup # 4	1	1	13JAN10	13JAN10	13JAN10	13JAN10	1	-206						
3AL1FT0505	Backup # 5	1	1	29JAN10	29JAN10	29JAN10	29JAN10	1	-219						
3AL1FT0515	Backup # 6	1	1	30JAN10	30JAN10	30JAN10	30JAN10	1	-219						
3AL1FT0525	Backup # 7	1	1	27MAR10	27MAR10	27MAR10	27MAR10	1	-218						
3AL1FT0535	Backup # 8	1	1	31MAR10	31MAR10	31MAR10	31MAR10	1	-218						
3AL1FT0545	Backup # 9	1	1	08APR10	08APR10	08APR10	08APR10	1	-218						
3AL1FT0555	Backup # 10	1	1	12APR10	12APR10	12APR10	12APR10	1	-218						
3AL1FT0565	Backup # 11	1	1	15APR10	15APR10	15APR10	15APR10	1	-218						
3AL1FT0575	Backup # 12	1	1	19APR10	19APR10	19APR10	19APR10	1	-218						
Manufacture Pre-cast Lining/Delivery															
Segmental Lining Mould															
3AL1FTSM02	Procure sub-contract for segmental mould	0	0		21JUL08A		21JUL08A	2							
3AL1FTSM04	Prepare shop drwgs for segmental mould	60	60	02FEB09A	05MAR09A	02FEB09A	05MAR09A	2							
3AL1FTSM06	Fabrication of segmental mould	90	90	06MAR09A	16MAY09A	06MAR09A	16MAY09A	2							
3AL1FTSM08	Inspection in Korea	7	7	18MAY09A	20MAY09A	18MAY09A	20MAY09A	2							
3AL1FTSM10	Painting & packing	7	7	21MAY09A	27MAY09A	21MAY09A	27MAY09A	2							
3AL1FTSM12	Delivery of segmental moulds to HKG	7	7	28MAY09	03JUN09	28MAY09	03JUN09	2	-107						
Pre-cast Segmental Lining															
3AL1FT0404	Prepare/submit QA/QC System	30	30	12JAN09A	04MAR09A	12JAN09A	04MAR09A	2							
3AL1FT0410	SO approve QA/QC system	28	28	05MAR09A	06JUN09	05MAR09A	06JUN09	1	-88						
3AL1FT0412	Approval of Tunnel Linig Design	0	0		11AUG09		11AUG09	2	-176						
3AL1FT0416	Manufacture of segments	330	330	12AUG09	20SEP10	12AUG09	20SEP10	1	-143						
3AL1FT0418	Delivery of Segments	400	400	02JAN10	12MAY11	02JAN10	12MAY11	1	-200						
3AL1FTSL02	Procure sub-contract for segment lining	0	0		05JAN09A		05JAN09A	1							
Geotech Instrumentation at WSD Tunnel Using PPE															
Method Statement to Install G.I. Works															
3AL1FTMS02	Prepare method statement	69	69	12MAR09A	26MAR09A	12MAR09A	26MAR09A	1							
3AL1FTMS04	Method statement endorsement by ICE & APRE	30	30	29MAY09A	03JUL09	29MAY09A	03JUL09	1	-68						
3AL1FTMS08	Method statement endorsement by LD	18	18	04JUL09	24JUL09	04JUL09	24JUL09	1	-68						
3AL1FTMS12	Method statement endorsement by SOR	12	12	25JUL09	07AUG09	25JUL09	07AUG09	1	-68						
3AL1FTMS14	Method statement endorsement by WSD	24	24	08AUG09	04SEP09	08AUG09	04SEP09	1	-68						
3AL1FTMS24	Application for electrical power	45	45	22DEC09*	18FEB10	22DEC09*	18FEB10	1	-188						
At Ting Kau Air Valve House															
3AL1WT3B02	Arrange WSD to open the valve house	1	1	19MAR10	19MAR10	19MAR10	19MAR10	1	-219						
3AL1WT3B12	Set up exhaust fans & arrange temp. electricity	3	3	20MAR10	23MAR10	20MAR10	23MAR10	1	-219						
3AL1WT3B22	Arrange 2 nrs. set of water pumps	2	2	24MAR10	25MAR10	24MAR10	25MAR10	1	-219						
3AL1WT3B32	Remove the air vent pipe (DN250)	2	2	26MAR10	27MAR10	26MAR10	27MAR10	1	-219						
3AL1WT3B42	Remove connection flange (DN900)	1	1	29MAR10	29MAR10	29MAR10	29MAR10	1	-219						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
3AL1WT3B52	Connect exhaust fan to valve shaft	3	3	30MAR10	01APR10	30MAR10	01APR10	1	-219						
3AL1WT3B62	Connect new vent pipe to exhaust fan(s)	2	2	07APR10	08APR10	07APR10	08APR10	1	-219						
3AL1WT3B72	Test and commission exhaust fan(s)	3	3	09APR10	12APR10	09APR10	12APR10	1	-219						
Preparation Works at Chai Wan Kok Shaft															
3AL1FTCT02	Install electricity take off, switch board &	4	4	27MAR10	31MAR10	27MAR10	31MAR10	1	-219						
3AL1FTCT12	Install waste reception/disposal area	1	1	13MAR10	13MAR10	13MAR10	13MAR10	1	-219						
3AL1FTCT22	Install toilet and shower	3	3	11MAR10	13MAR10	11MAR10	13MAR10	1	-219						
3AL1FTCT32	Set up generator, two 2" water pumps	2	2	30MAR10	31MAR10	30MAR10	31MAR10	1	-219						
3AL1FTCW02	UU detection	3	3	15MAR10	17MAR10	15MAR10	17MAR10	1	-219						
3AL1FTCW04	Excavate to lower platform approx. 0.5m-1m	2	2	18MAR10	19MAR10	18MAR10	19MAR10	1	-219						
3AL1FTCW06	Set out & align sheet piling	1	1	20MAR10	20MAR10	20MAR10	20MAR10	1	-219						
3AL1FTCW08	Install sheet piles & excavate to install rails	4	4	22MAR10	25MAR10	22MAR10	25MAR10	1	-219						
3AL1FTCW10	Excavate to the bottom of DN1200 pipe	3	3	26MAR10	29MAR10	26MAR10	29MAR10	1	-219						
3AL1FTCW12	Lay concrete blinding to pit	2	2	30MAR10	31MAR10	30MAR10	31MAR10	1	-219						
3AL1FTCW14	ICE checking	1	1	01APR10	01APR10	01APR10	01APR10	1	-219						
3AL1FTCW16	WSD Tunnel Shut Down Period	131*	131*	26MAR10	03SEP10	26MAR10	03SEP10	1	0						
3AL1FTCW18	WSD Tunnel #3 commences shut down	1	1	01APR10	01APR10	01APR10	01APR10	1	-219						
3AL1FTCW20	Cut & clean invert and inner face of DN1200	1	1	07APR10	07APR10	07APR10	07APR10	1	-219						
3AL1FTCW22	Plug DN1200 pipe at the face near valve house	1	1	08APR10	08APR10	08APR10	08APR10	1	-219						
3AL1FTCW24	Fabricate trolley & trial	4	4	09APR10	13APR10	09APR10	13APR10	1	-219						
3AL1FTCW26	Install longitudinal tensioned wire	2	2	14APR10	15APR10	14APR10	15APR10	1	-219						
3AL1FTCW36	Temporary plug main tunnel to form air seal	2	2	16APR10	17APR10	16APR10	17APR10	1	-219						
Works In Aqueduct															
3AL1FTAD04	Install instruments	56	56	19APR10	25JUN10	19APR10	25JUN10	1	-219						
3AL1FTAD06	Inspection	1	1	26JUN10	26JUN10	26JUN10	26JUN10	1	-219						
3AL1FTAD08	TBM crossing affected 120m section	12	12	28JUN10	12JUL10	28JUN10	12JUL10	1	-219						
3AL1FTAD10	De-install instruments	32	32	13JUL10	18AUG10	13JUL10	18AUG10	1	0						
Demobilisation															
3AL1FTA04	Remove trolley system	1	1	19AUG10	19AUG10	19AUG10	19AUG10	1	0						
3AL1FTA14	Remove the plug at Ting Kau	2	2	20AUG10	21AUG10	20AUG10	21AUG10	1	0						
3AL1FTA24	Remove ventilation system, reinstate T.K. valve	3	3	23AUG10	25AUG10	23AUG10	25AUG10	1	0						
3AL1FTA34	Remove temporary portal at junction	1	1	26AUG10	26AUG10	26AUG10	26AUG10	1	0						
Reinstatement Works															
3AL1FTRS02	Reinstatement opening at Chai Wan Kok	7	7	27AUG10	03SEP10	27AUG10	03SEP10	1	0						
3AL1FTRS04	WSD Tunnel #3 re-operates	1	1	03SEP10	03SEP10	03SEP10	03SEP10	1	0						
TBM Assembly & Initial Driving; Day Time Work															
TBM Assembly/Test & Commis. at Outfall															
3AL1FT0605	Cutterhead	3	3	04JAN10	06JAN10	04JAN10	06JAN10	1	-219						
3AL1FT0615	Shield (bottom)	4	4	07JAN10	11JAN10	07JAN10	11JAN10	1	-219						
3AL1FT0625	Bearing	1	1	12JAN10	12JAN10	12JAN10	12JAN10	1	-219						
3AL1FT0635	Erector & Conveyor Belt	3	3	13JAN10	15JAN10	13JAN10	15JAN10	1	-219						
3AL1FT0645	Shield (top)	4	4	16JAN10	20JAN10	16JAN10	20JAN10	1	-219						
3AL1FT0655	Backup # 1	3	3	21JAN10	23JAN10	21JAN10	23JAN10	1	-219						

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
3AL1FT0665	Backup # 2	3	3	25JAN10	27JAN10	25JAN10	27JAN10	1 -219						
3AL1FT0675	Backup # 3	3	3	28JAN10	30JAN10	28JAN10	30JAN10	1 -219						
3AL1FT0685	Test & commission stage 1	6	6	01FEB10	06FEB10	01FEB10	06FEB10	1 -219						
3AL1FT0695	Backup # 4	3	3	24FEB10	26FEB10	24FEB10	26FEB10	1 -199						
3AL1FT0705	Backup # 5	3	3	27FEB10	02MAR10	27FEB10	02MAR10	1 -199						
3AL1FT0715	Backup # 6	3	3	03MAR10	05MAR10	03MAR10	05MAR10	1 -199						
3AL1FT0725	Backup # 7	3	3	29MAR10	31MAR10	29MAR10	31MAR10	1 -218						
3AL1FT0735	Backup # 8	3	3	01APR10	08APR10	01APR10	08APR10	1 -218						
3AL1FT0745	Backup # 9	3	3	09APR10	12APR10	09APR10	12APR10	1 -218						
3AL1FT0755	Backup # 10	3	3	13APR10	15APR10	13APR10	15APR10	1 -218						
3AL1FT0765	Backup # 11	3	3	16APR10	19APR10	16APR10	19APR10	1 -218						
3AL1FT0775	Backup # 12	3	3	20APR10	22APR10	20APR10	22APR10	1 -218						
3AL1FT0785	Test & commission stage 2	12	12	23APR10	07MAY10	23APR10	07MAY10	1 -218						
TBM Initial Advancing; Day Time Work														
3AL1FT0704	TBM advancing; Ch. 5098 to Ch. 5084	6	6	08FEB10	17FEB10	08FEB10	17FEB10	1 -219						
3AL1FT0708	TBM advances; CH5084-4963	54	54	18FEB10	26APR10	18FEB10	26APR10	1 -219						
3AL1FT0720	TBM stop to install rem. items	10	10	27APR10	08MAY10	27APR10	08MAY10	1 -219						
Main Tunnel Works; Day & Night Work														
TBM Advancing upto Crossing WSD Tunnel # 3														
3AL1FT0816	TBM advances; CH4963-4415 (to WSD Tunnel # 3)	40	40	10MAY10	26JUN10	10MAY10	26JUN10	1 -219						
3AL1FT0818	TBM crossing WSD Tunnel # 3; CH4415- 4295	12	12	28JUN10	12JUL10	28JUN10	12JUL10	1 -219						
TBM Advancing upto Breakthrough														
3AL1FT0819	TBM advances; CH4295-4250	5	5	13JUL10	17JUL10	13JUL10	17JUL10	1 -219						
3AL1FT0820	TBM advances; P6 CH4250-4220	2	2	19JUL10	20JUL10	19JUL10	20JUL10	1 -219						
3AL1FT0822	TBM advances; CH4220-3940	14	14	21JUL10	05AUG10	21JUL10	05AUG10	1 -219						
3AL1FT0824	TBM advances; CH3940-3560	24	24	05AUG10	02SEP10	05AUG10	02SEP10	1 -219						
3AL1FT0826	TBM advances CH3560-2970	40	40	03SEP10	22OCT10	03SEP10	22OCT10	1 -219						
3AL1FT0828	TBM advances; WSD WS Reservoir CH2970-2860	13	13	23OCT10	06NOV10	23OCT10	06NOV10	1 -219						
3AL1FT0830	TBM advances; CH2860-1250	83	83	08NOV10	18FEB11	08NOV10	18FEB11	1 -219						
3AL1FT0832	TBM advances; CH1250-0	91	91	19FEB11	11JUN11	19FEB11	11JUN11	1 -219						
3AL1FT0890	Desemby & demolition of TBM	50	50	13JUN11	10AUG11	13JUN11	10AUG11	1 -114						
3AL1FT0892	Back grouting (daytime); CH5100-00	382	382	04MAR10	18JUN11	04MAR10	18JUN11	1 -20						
3AL1FT0894	Complete maintenance access & dry weather channel	60	60	11AUG11	22OCT11	11AUG11	22OCT11	1 -64						
3AL1FT0896	Installation of communication system (Daytime)	60	60	11AUG11	22OCT11	11AUG11	22OCT11	1 -64						
3AL1FT0898	Testing & Commissioning; daytime	28	28	10NOV12	07DEC12	22DEC12	18JUN13	2 -462						
3AL1FT0902	Contractor serve notice for Works completion	7	7	08DEC12	14DEC12	19JAN13	25JAN13	2 0						
3AL1FT0904	Handover of Portion F	0	0	07DEC12	07DEC12	18JAN13	18JAN13	1 -375						
3AL1FT0906	SO issues completion certificate	21	21	15DEC12	04JAN13	26JAN13	15FEB13	2 0						
Schedule of Milestones for Cost Centre No. 6aR														
6AR1FT0902	6aR 1; On completion of grouting at P7	0	0	31MAR10	31MAR10	31MAR10	31MAR10	2 1,370						
6AR1FT0904	6aR 2; On completion of grouting at F6c	0	0	19MAY10	19MAY10	19MAY10	19MAY10	2 1,321						

ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
6AR1FT0906	6aR 3; On completion of grouting at F6b	0	0	27MAY10	27MAY10	27MAY10	27MAY10	2 1,313							
6AR1FT0908	6aR 4; On completion of grouting at F6a	0	0	15JUN10	15JUN10	15JUN10	15JUN10	2 1,294							
6AR1FT0910	6aR 5; On completion of grouting at WSD T. 3	0	0	17JUL10	17JUL10	17JUL10	17JUL10	2 1,262							
6AR1FT0912	6aR 6; On completion of 20% grout by lth at P6	0	0	17JUL10	17JUL10	17JUL10	17JUL10	2 1,262							
6AR1FT0914	6aR 7; On completion of 40% grout by lth at P6	0	0	23JUL10	23JUL10	23JUL10	23JUL10	2 1,256							
6AR1FT0916	6aR 8; On completion of 60% grout by lth at P6	0	0	29JUL10	29JUL10	29JUL10	29JUL10	2 1,250							
6AR1FT0918	6aR 9; On completion of 80% grout by lth at P6	0	0	17JUL10	17JUL10	17JUL10	17JUL10	2 1,262							
6AR1FT0920	6aR 10; On completion of grouting works at P6	0	0	20JUL10	20JUL10	20JUL10	20JUL10	2 1,259							
6AR1FT0922	6aR 11; On completion of grouting wks at P5	0	0	06AUG10	06AUG10	06AUG10	06AUG10	2 1,242							
6AR1FT0924	6aR 12; On completion of grouting wks at P4	0	0	04SEP10	04SEP10	04SEP10	04SEP10	2 1,213							
6AR1FT0926	6aR 13; On completion of grouting wks at P3	0	0	07OCT10	07OCT10	07OCT10	07OCT10	2 1,180							
6AR1FT0928	6aR 14; On completion of grouting wks at WSD's	0	0	06NOV10	06NOV10	06NOV10	06NOV10	2 1,150							
6AR1FT0930	6aR 15; On completion of grouting wks at F5	0	0	13NOV10	13NOV10	13NOV10	13NOV10	2 1,143							
6AR1FT0932	6aR 16; On completion of grouting wks at F4	0	0	26NOV10	26NOV10	26NOV10	26NOV10	2 1,130							
6AR1FT0934	6aR 17; On completion of grouting wks at F3	0	0	22DEC10	22DEC10	22DEC10	22DEC10	2 1,104							
6AR1FT0936	6aR 18; On completion of grouting wks at F2	0	0	21FEB11	21FEB11	21FEB11	21FEB11	2 1,043							
6AR1FT0938	6aR 19; On completion of grouting wks at P2	0	0	31MAR11	31MAR11	31MAR11	31MAR11	2 1,005							
6AR1FT0940	6aR 20; On completion of grouting wks at P1	0	0	27APR11	27APR11	27APR11	27APR11	2 978							
6AR1FT0942	6aR 21; On completion of 10% grout by lth at F1	0	0	21MAY11	21MAY11	21MAY11	21MAY11	2 954							
6AR1FT0944	6aR 22; On completion of 20% grout by lth at F1	0	0	23MAY11	23MAY11	23MAY11	23MAY11	2 952							
6AR1FT0946	6aR 23; On completion of 30% grout by lth at F1	0	0	24MAY11	24MAY11	24MAY11	24MAY11	2 951							
6AR1FT0948	6aR 24; On completion of 40% grout by lth at F1	0	0	25MAY11	25MAY11	25MAY11	25MAY11	2 950							
6AR1FT0950	6aR 25; On completion of 50% grout by lth at F1	0	0	26MAY11	26MAY11	26MAY11	26MAY11	2 949							
6AR1FT0952	6aR 26; On completion of 60% grout by lth at F1	0	0	27MAY11	27MAY11	27MAY11	27MAY11	2 948							
6AR1FT0954	6aR 27; On completion of 70% grout by lth at F1	0	0	28MAY11	28MAY11	28MAY11	28MAY11	2 947							
6AR1FT0956	6aR 28; On completion of 80% grout by lth at F1	0	0	30MAY11	30MAY11	30MAY11	30MAY11	2 945							
6AR1FT0958	6aR 29; On completion of 90% grout by lth at F1	0	0	31MAY11	31MAY11	31MAY11	31MAY11	2 944							
6AR1FT0960	6aR 30; On completion of grouting works at F1	0	0	01JUN11	01JUN11	01JUN11	01JUN11	2 943							
6AR1FT0970	6aR 31; On completion of all works under this CC	0	0	18JUN11	18JUN11	18JUN11	18JUN11	2 926							
Schedule of Milestones for Cost Centre No. 3aL															
3AL1FT1002	3aL 1; On providing evidence of procuring TBM	0	0	19JAN08A	19JAN08A	19JAN08A	19JAN08A	2							
3AL1FT1004	3aL 2; On providing evidence of TBM Factory Test	0	0	08OCT08A	08OCT08A	08OCT08A	08OCT08A	2							
3AL1FT1006	3aL 3; On delivery of all parts of TBM to the Si	0	0	07AUG09	07AUG09	07AUG09	07AUG09	2 1,606							
3AL1FT1008	3aL 4; On completion of site comm. & test. of TB	0	0	07MAY10	07MAY10	07MAY10	07MAY10	2 1,333							
3AL1FT1010	3aL 5; On completion of 5% perm. tunnel lining	0	0	18MAY10	18MAY10	18MAY10	18MAY10	2 1,322							
3AL1FT1012	3aL 6; On completion of 10% perm. tunnel lining	0	0	09JUN10	09JUN10	09JUN10	09JUN10	2 1,300							
3AL1FT1014	3aL 7; On completion of 15% perm. tunnel lining	0	0	02JUL10	02JUL10	02JUL10	02JUL10	2 1,277							
3AL1FT1016	3aL 8; On completion of 20% perm. tunnel lining	0	0	28JUL10	28JUL10	28JUL10	28JUL10	2 1,251							
3AL1FT1018	3aL 9; On completion of 25% perm. tunnel lining	0	0	13AUG10	13AUG10	13AUG10	13AUG10	2 1,235							
3AL1FT1020	3aL 10; On completion of 30% perm. tunnel lining	0	0	02SEP10	02SEP10	02SEP10	02SEP10	2 1,215							
3AL1FT1022	3aL 11; On completion of 35% perm. tunnel lining	0	0	22SEP10	22SEP10	22SEP10	22SEP10	2 1,195							
3AL1FT1024	3aL 12; On completion of 40% perm. tunnel lining	0	0	22OCT10	22OCT10	22OCT10	22OCT10	2 1,165							

ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
3AL1FT1026	3aL 13: On completion of 45% perm. tunnel lining	0	0		10NOV10		10NOV10	2	1,146						
3AL1FT1028	3aL 14: On completion of 50% perm. tunnel lining	0	0		25NOV10		25NOV10	2	1,131						
3AL1FT1030	3aL 15: On completion of 55% perm. tunnel lining	0	0		10DEC10		10DEC10	2	1,116						
3AL1FT1032	3aL 16: On completion of 60% perm. tunnel lining	0	0		29DEC10		29DEC10	2	1,097						
3AL1FT1034	3aL 17: On completion of 65% perm. tunnel lining	0	0		14JAN11		14JAN11	2	1,081						
3AL1FT1036	3aL 18: On completion of 70% perm. tunnel lining	0	0		29JAN11		29JAN11	2	1,066						
3AL1FT1038	3aL 19: On completion of 75% perm. tunnel lining	0	0		17FEB11		17FEB11	2	1,047						
3AL1FT1040	3aL 20: On completion of 80% perm. tunnel lining	0	0		10MAR11		10MAR11	2	1,028						
3AL1FT1042	3aL 21: On completion of 85% perm. tunnel lining	0	0		01APR11		01APR11	2	1,004						
3AL1FT1044	3aL 22: On completion of 90% perm. tunnel lining	0	0		28APR11		28APR11	2	977						
3AL1FT1046	3aL 23: On completion of 95% perm. tunnel lining	0	0		21MAY11		21MAY11	2	954						
3AL1FT1048	3aL 24: On completion of perm. tunnel lining	0	0		11JUN11		11JUN11	2	933						
3AL1FT1050	3aL 25: On completion of maint. access/flow chan	0	0		22OCT11		22OCT11	2	800						
3AL1FT1052	3aL 26: On completion of provision of communic.	0	0		22OCT11		22OCT11	2	800						
3AL1FT1054	3aL 27: On completion of all works under this CC	0	0		07DEC12		18JAN13	2	388						
Schedule of Milestones for Cost Centre No. 3dL															
3DL10T1202	3dL 1: On complet. of install geo instrument.	0	0		10NOV09		10NOV09	2	1,511						
3DL10T1204	3dL 2: Maint./monit. geo. inst. for 12 mth	0	0		27DEC08A		27DEC08A	2							
3DL10T1206	3dL 3: Maint./monitor geo. inst. for 24	0	0		26DEC09		26DEC09	2	1,465						
3DL10T1208	3dL 4: Maint./monitor geo. inst. for 36	0	0		26DEC10		26DEC10	2	1,100						
3DL10T1210	3dL 5: Maint./monitor geo. inst. for 48	0	0		26DEC11		26DEC11	2	735						
3DL10T1212	3dL 6: On completion of maint. & monit. of geo.	0	0		08MAR13		08MAR13	2	297						
3DL10T1214	3dL 7: On installation of FMD at Portion A	0	0		29DEC11		29DEC11	2	732						
3DL10T1216	3dL 8: On installation of FMD at Portion B	0	0		20FEB12		20FEB12	2	679						
3DL10T1218	3dL 9: On installation of FMD at Portion C	0	0		28JAN12		28JAN12	2	702						
3DL10T1220	3dL 10: On installation of FMD at Portion D	0	0		17APR12		17APR12	2	622						
3DL10T1222	3dL 11: On completion of maint. & monit. of FMD	0	0		07DEC13		18JAN14	2	23						
3DL10T1224	3dL 12: On completion of all works under this CC	0	0		07DEC13		18JAN14	2	23						
Construction of Intake I-1															
Preliminary Works															
VO#07: Transparent Hoarding at I-1															
VO007-02	Receive VO7 for transparent hoarding	0	0		19MAY08A		19MAY08A	1							
VO007-04	Procure/prepare/install transparent hoarding	70	70	20MAY08A	11AUG08A	20MAY08A	11AUG08A	1							
01R1AI1102	Possession of site	0	0	19MAR08A		19MAR08A		1							
01R1AI1104	Obtain TTA (ingress & egress) approval	0	0	19APR08A		19APR08A		2							
01R1AI1106	Site clearance	30	30	21APR08A	26MAY08A	21APR08A	26MAY08A	1							
01R1AI1108	Obtain tree	6	6	13MAY08A	31JUL08A	13MAY08A	31JUL08A	1							
01R1AI1110	Hoarding erection enclosing the Site	18	18	23MAY08A	11AUG08A	23MAY08A	11AUG08A	1							
01R1AI1112	Site entrance construction	6	6	23JUN08A	25JUL08A	23JUN08A	25JUL08A	1							
01R1AI1114	Install wheel wahing facilities	7	7	03JUN08A	07JUN08A	03JUN08A	07JUN08A	1							

ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
01R1AI1116	Erect SOR's secondary site office	6	6	28AUG08A	03SEP08A	28AUG08A	03SEP08A	1							
01R1AI1118	Footing for temp. bridge span over Shing M. Nul.	26	26	10JUN08A	16JUL08A	10JUN08A	16JUL08A	1							
01R1AI1120	Decking for temp. bridge span over Shing M. Nul.	13	13	17JUL08A	01AUG08A	17JUL08A	01AUG08A	1							
01R1AI1122	Install remote control CCTV as per ER 4.4.10	12	12	04SEP08A	18SEP08A	04SEP08A	18SEP08A	1							
16R1AI1101	Tree Identification & Report	14	14	14MAR08A	01APR08A	14MAR08A	01APR08A	2							
16R7AI1102	1st tree pruning for small 3 nos. trees	1	1	03JUN08A	03JUN08A	03JUN08A	03JUN08A	1							
16R7AI1104	2nd tree pruning for small 3 nos. trees	1	1	04JUL08A	04JUL08A	04JUL08A	04JUL08A	1							
16R7AI1106	Final pruning & uplifting of 3 nos. small trees	2	2	08SEP08A	09SEP08A	08SEP08A	09SEP08A	1							
16R7AI1108	Confirm location for trees to be transplanted	51	51	02APR08A	27AUG08A	02APR08A	27AUG08A	1							
16R7AI1114	One stg transplant for big 4 nos. big trees	9	9	11FEB09A	19FEB09A	11FEB09A	19FEB09A	1							
Permanent Soil Nailing Works															
11R2AI1302	Erect working platform & mobilization	8	8	17MAY08A	24MAY08A	17MAY08A	24MAY08A	1							
11R2AI1304	Install test nails & proof loading test; 2 nos.	8	8	24JUN08A	08JUL08A	24JUN08A	08JUL08A	1							
11R2AI1306	Soil nailing for A to C rows; 89 nos.	16	16	02JUL08A	14JUL08A	02JUL08A	14JUL08A	1							
11R2AI1308	Soil nailing for D to F rows; 71 nos.	29	29	15JUL08A	05SEP08A	15JUL08A	05SEP08A	1							
11R2AI1310	Construct soil nail heads; 140 nos.	22	22	19JUL08A	06SEP08A	19JUL08A	06SEP08A	1							
11R2AI1312	Demobilization	3	3	08SEP08A	10SEP08A	08SEP08A	10SEP08A	1							
Construction of Spiral Ramp & Cascade															
Additional GI Works to Finalize Design															
AGIA-02	Drill for 5 nos. additional GI works	21	21	09SEP08A	04OCT08A	09SEP08A	04OCT08A	1							
Temp. Pipe-pile cofferdam															
04L1AI1202	Erect piling platform	43	43	22OCT08A	24DEC08A	22OCT08A	24DEC08A	1							
04L1AI1203	Mobilization & set up piling rig	3	3	30OCT08A	01NOV08A	30OCT08A	01NOV08A	1							
04L1AI1204	Install 273 mm dia. temp. pipe piles; 144 nos.	43	43	09NOV08A	05JAN09A	09NOV08A	05JAN09A	1							
04L1AI1226	Demobilize all plant and materials	6	6	06JAN09A	13JAN09A	06JAN09A	13JAN09A	1							
Excavate +104.0 to +100.5mPD; Row 7															
04L1AI1402	Mobilization	1	1	23FEB09A	23FEB09A	23FEB09A	23FEB09A	1							
04L1AI1404	Bulk excavation; soil (155m3)	4	4	24FEB09A	27FEB09A	24FEB09A	27FEB09A	1							
04L1AI1406	Install test tie-back & proof load test	4	4	28FEB09A	04MAR09A	28FEB09A	04MAR09A	1							
04L1AI1408	Install tie backs/wailing & shortcrete	4	4	03MAR09A	06MAR09A	03MAR09A	06MAR09A	1							
Excavate +100.5 to +99.0mPD; Rows 1 & 8															
04L1AI1410	Bulk excavation; soil (219m3)	2	2	07MAR09A	09MAR09A	07MAR09A	09MAR09A	1							
04L1AI1412	Install tie backs/wailing & shorcrete	6	6	10MAR09A	16MAR09A	10MAR09A	16MAR09A	1							
Excavate +99.0 to +96.5mPD; Rows 2, 9 & 18															
04L1AI1414	Bulk excavation; soil (710m3)	3	3	17MAR09A	19MAR09A	17MAR09A	19MAR09A	1							
04L1AI1416	Install test tie-back & proof load test	4	4	26MAR09A	01APR09A	26MAR09A	01APR09A	1							
04L1AI1418	Install tie backs/wailing & shortcrete	6	6	23MAR09A	28MAR09A	23MAR09A	28MAR09A	1							
Excavate +96.5 to +95.0mPD; Rows 3, 10 & 19															
04L1AI1420	Bulk excavation; soil (721m3)	3	3	30MAR09A	04APR09A	30MAR09A	04APR09A	1							
04L1AI1422	Install tie backs/wailing & shortcrete	4	4	02APR09A	20APR09A	02APR09A	20APR09A	1							

ID	Activity Description	B04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
Excavate +95.0 to +94.0 mPD; Rows 4, 11 & 20														
04L1AI1424	Bulk excavation; soil (701m3)	3	3	06APR09A	18APR09A	06APR09A	18APR09A	1						
04L1AI1426	Install tie backs/walling & shorcrete	5	5	03APR09A	30APR09A	03APR09A	30APR09A	1						
Excavate +94.0 to + 93.0mPD; Rows 5,12,16,21&24														
04L1AI1428	Bulk excavation; soil (818m3)	4	4	20APR09A	27APR09A	20APR09A	27APR09A	1						
04L1AI1430	Install test tie-back & proof load test	4	4	21APR09A	16MAY09A	21APR09A	16MAY09A	1						
04L1AI1432	Install tie backs/walling & shorcrete	5	5	21APR09A	16MAY09A	21APR09A	16MAY09A	1						
Excavate +93.0 to +92.5mPD; Row 22														
04L1AI1434	Bulk excavation; soil (423m3) & rock (52m3)	3	3	04MAY09A	18MAY09A	04MAY09A	18MAY09A	1						
04L1AI1436	Install tie backs/walling & shorcrete	2	2	19MAY09A	27MAY09A	19MAY09A	27MAY09A	1						
Excavate +92.5 to 91.1mPD; Rows 6,13,16,17&23														
04L1AI1438	Bulk excavation; soil (1002m3) & rock (342m3)	8	8	06MAY09A	23MAY09A	06MAY09A	23MAY09A	1						
04L1AI1440	Install test tie-back & proof load test	4	4	08MAY09A	25MAY09A	08MAY09A	25MAY09A	1						
04L1AI1442	Install tie backs/walling & shorcrete	4	4	18MAY09A	27MAY09A	18MAY09A	27MAY09A	1						
Excavate +91.1 to 89.5mPD; Rows 14, 17 & 25														
04L1AI1444	Bulk excavation; soil (724m3) & rock (811m3)	12	12	18MAY09A	01JUN09	18MAY09A	01JUN09	1						
04L1AI1446	Install tie backs/walling & shorcrete	4	4	02JUN09	05JUN09	02JUN09	05JUN09	1						
Excavate +89.5 to 88.5mPD; Rows 15 & 26														
04L1AI1448	Bulk excavation; soil (269m3) & rock (690m3)	9	9	06JUN09	16JUN09	06JUN09	16JUN09	1						
04L1AI1450	Install tie backs/walling & shorcrete	3	3	17JUN09	19JUN09	17JUN09	19JUN09	1						
Excavate +88.5 to 71.5mPD; Rows 27 to 31														
07R1AI1442	Set up for dewatering	8	8	20JUN09	29JUN09	20JUN09	29JUN09	1						
07R1AI1444	Rock excavation/mucking out/temp. support	168	168	30JUN09	19JAN10	30JUN09	19JAN10	1						
Construction of Vehicular Access														
04L1AI1452	Cast base slab	6	6	20JAN10	26JAN10	20JAN10	26JAN10	1						
04L1AI1454	Cast walls	12	12	27JAN10	09FEB10	27JAN10	09FEB10	1						
04L1AI1456	Cast roof slab	12	12	10FEB10	26FEB10	10FEB10	26FEB10	1						
Construction of Spiral Ramp Structure														
07R1AI1402	Cast base slab	12	12	27FEB10	12MAR10	27FEB10	12MAR10	1						
07R1AI1404	Cast ramp up to +76.51mPD	15	15	13MAR10	30MAR10	13MAR10	30MAR10	1						
07R1AI1406	Cast ramp up to +80.81mPD	15	15	31MAR10	21APR10	31MAR10	21APR10	1						
07R1AI1408	Cast ramp up to +85.10mPD	15	15	22APR10	10MAY10	22APR10	10MAY10	1						
07R1AI1410	Cast ramp up to 89.41mPD	15	15	11MAY10	28MAY10	11MAY10	28MAY10	1						
07R1AI1412	Cast ramp up to 93.71mPD	15	15	29MAY10	15JUN10	29MAY10	15JUN10	1						
07R1AI1414	Cast ramp up to 98.01mPD	15	15	17JUN10	05JUL10	17JUN10	05JUL10	1						
07R1AI1416	Cast ramp up to +102.31mPD	15	15	06JUL10	22JUL10	06JUL10	22JUL10	1						
07R1AI1418	Backfill spiral ramp; 2496m3 @ 200m3/day	13	13	23JUL10	06AUG10	23JUL10	06AUG10	1						
07R1AI1420	Construct RC spiral ramp top	15	15	07AUG10	24AUG10	07AUG10	24AUG10	1						
Construction of Cascade Structure														
04L1AI1472	Cast base slabs	12	12	23JUL10	05AUG10	23JUL10	05AUG10	1						
04L1AI1474	Cast walls 1st lift	18	18	06AUG10	26AUG10	06AUG10	26AUG10	1						
04L1AI1476	Cast walls 2nd lift, 200mm down from soffit	18	18	27AUG10	16SEP10	27AUG10	16SEP10	1						
04L1AI1478	Cast roof slabs	18	18	17SEP10	09OCT10	17SEP10	09OCT10	1						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Dismantle & Removal of TBM															
04L1AI1458	Backfill & form crane platform	24	24	11OCT10	08NOV10	11OCT10	08NOV10	1	-22						
04L1AI1460	TBM break through	0	0		11JUN11*		11JUN11*	1	-195						
04L1AI1461	Disassembly & demobilization of TBM	50	50	13JUN11	10AUG11	13JUN11	10AUG11	1	-195						
04L1AI1462	Cast lower base slab	12	12	06JUL10	19JUL10	06JUL10	19JUL10	1	-19						
Construction of Box Culvert Structure															
04L1AI1463	Cast upper base	6	6	11AUG11	17AUG11	11AUG11	17AUG11	1	-195						
04L1AI1464	Cast walls 1st lift	18	18	18AUG11	07SEP11	18AUG11	07SEP11	1	-195						
04L1AI1466	Cast walls 2nd lift, 200mm down from soffit	18	18	08SEP11	29SEP11	08SEP11	29SEP11	1	-195						
04L1AI1468	Cast roof slabs	18	18	30SEP11	22OCT11	30SEP11	22OCT11	1	-195						
04L1AI1470	Backfill & compaction above box culvert; -13m	22	22	24OCT11	17NOV11	24OCT11	17NOV11	1	-195						
Modification of Existing Channel in Dry Season															
Channel Modification (Varied)Works (Civil Works)															
07R1AI1502	Break wall & slab at pipe pile location	8	8	02NOV09*	10NOV09	02NOV09*	10NOV09	1	70						
07R1AI1504	Set up pipe pile rig	3	3	11NOV09	13NOV09	11NOV09	13NOV09	1	70						
07R1AI1506	Install pipe piles (30*12m)	10	10	14NOV09	25NOV09	14NOV09	25NOV09	1	70						
07R1AI1508	Break existing masonry wall	4	4	26NOV09	30NOV09	26NOV09	30NOV09	1	70						
04L1AI1510	PC block/sand back bund wall for water diversion	2	2	01DEC09	02DEC09	01DEC09	02DEC09	1	70						
07R1AI1512	Cut existing slab	1	1	03DEC09	03DEC09	03DEC09	03DEC09	1	70						
07R1AI1514	Demolish Wo Yi Hop Nullah wall & slab	6	6	04DEC09	10DEC09	04DEC09	10DEC09	1	70						
07R1AI1518	Construct WYH Nullah wall below slab	6	6	11DEC09	17DEC09	11DEC09	17DEC09	1	70						
07R1AI1520	Backfill & SRT behind wall below slab	18	18	18DEC09	11JAN10	18DEC09	11JAN10	1	70						
07R1AI1522	Demolish Shing Mun Nullah wall with struts	6	6	12JAN10	18JAN10	12JAN10	18JAN10	1	70						
07R1AI1524	Demolish Shing Mun Nullah slab	4	4	19JAN10	22JAN10	19JAN10	22JAN10	1	70						
07R1AI1626	Construct slab	8	8	23JAN10	01FEB10	23JAN10	01FEB10	1	70						
07R1AI1628	Construct wall for WYH Nullah	10	10	02FEB10	12FEB10	02FEB10	12FEB10	1	70						
07R1AI1630	Construct wall for SM Nullah	10	10	17FEB10	27FEB10	17FEB10	27FEB10	1	70						
07R1AI1632	Assoc. RC works for trash grill & stop slogs	18	18	01MAR10	20MAR10	01MAR10	20MAR10	1	70						
07R1AI1634	Mass concrete infill	3	3	22MAR10	24MAR10	22MAR10	24MAR10	1	70						
07R1AI1636	PC block & san bag bund wall	3	3	25MAR10	27MAR10	25MAR10	27MAR10	1	70						
Channel Modification Works (Steel Works)															
07R1AI150T	Install steelworks; Phase 3	36	36	01NOV11*	12DEC11	01NOV11*	12DEC11	1	-143						
Piling Works															
Piling Works Along Crest Platform															
11R2AI1202	Erect piling platform for upper piles	12	12	22SEP10	07OCT10	22SEP10	07OCT10	1	103						
11R2AI1204	Mobilize piling rig & set up	6	6	08OCT10	14OCT10	08OCT10	14OCT10	1	103						
11R2AI1206	350mm dia. pre-bored H-piles (upper); 36 nos.	36	36	15OCT10	26NOV10	15OCT10	26NOV10	1	103						
11R2AI1208	Demobilize piling rig	6	6	27NOV10	03DEC10	27NOV10	03DEC10	1	103						
Skin Wall & Crest Platform															
11R2AI1210	Excavate & hack off grout	8	8	04DEC10	13DEC10	04DEC10	13DEC10	1	103						
11R2AI1212	Construct skin wall	12	12	14DEC10	29DEC10	14DEC10	29DEC10	1	103						
11R2AI1214	Construct capping beam	8	8	30DEC10	08JAN11	30DEC10	08JAN11	1	103						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
11R2A1216	Backfill & construct U-channel	4	4	10JAN11	13JAN11	10JAN11	13JAN11	1	103						
11R2A1218	Fix rebar/ erect fwk/concrete ramp	12	12	14JAN11	27JAN11	14JAN11	27JAN11	1	103						
Piling Works Above Inclined Access Ramp															
11R2A1220	Mobilize piling rig & set up	6	6	18NOV11	24NOV11	18NOV11	24NOV11	1	-195						
11R2A1222	350mm dia. pre-bored H-piles (lower); 29 nos.	29	29	25NOV11	02JAN12	25NOV11	02JAN12	1	-195						
11R2A1224	Demobilize piling rig	6	6	03JAN12	09JAN12	03JAN12	09JAN12	1	-195						
Skin Wall & Inclined Access Ramp															
11R2A1226	Excavate & hack off grout	6	6	10JAN12	16JAN12	10JAN12	16JAN12	1	-195						
11R2A1228	Construct skin wall	12	12	17JAN12	02FEB12	17JAN12	02FEB12	1	-195						
11R2A1230	Construct capping beam	8	8	03FEB12	11FEB12	03FEB12	11FEB12	1	-195						
11R2A1232	Backfill & construct U-channel	4	4	13FEB12	16FEB12	13FEB12	16FEB12	1	-195						
11R2A1234	Fix rebar/erect fwk/concrete ramp	12	12	17FEB12	01MAR12	17FEB12	01MAR12	1	-195						
Remaining Works Prior to Handover															
07R1A1606	Finishing & reinstatement works; Portion A	36	36	03FEB12	15MAR12	03FEB12	15MAR12	1	-195						
07R1A1608	Pre-handover inspections and remedial works	30	30	17FEB12	22MAR12	17FEB12	22MAR12	1	-195						
07R1A1610	Contractor serve notice for Works completion	7	7	23MAR12	29MAR12	23MAR12	29MAR12	2	0						
07R1A1612	SO issues completion certificate	21	21	30MAR12	19APR12	30MAR12	19APR12	2	0						
16R7A1602	Landscaping works at Portion A	30	30	27JAN12	01MAR12	27JAN12	01MAR12	1	-183						
16R7A1604	Establishment Works at Portion A	365	365	02MAR12	01MAR13	02MAR12	01MAR13	2	-181						
3DL1A1602	Install flow measurement devices at Intake I-1	12	12	13DEC11	29DEC11	13DEC11	29DEC11	1	-143						
3DL1A1604	Maintain & monitor flow monitoring	365	365	30DEC11	28DEC12	30DEC11	28DEC12	2	-118						
Schedule of Milestones for Cost Center No. 4L															
04L1A1802	4L 1; On completion of 50% excavation	0	0		29JUN09		29JUN09	2	1,645						
04L1A1804	4L 2; On completion of excavation	0	0		19JAN10		19JAN10	2	1,441						
04L1A1806	4L 3; On completion of 25% concreting	0	0		26FEB10		26FEB10	2	1,403						
04L1A1808	4L 4; On completion of 50% concreting	0	0		26AUG10		26AUG10	2	1,222						
04L1A1810	4L 5; On completion of 75% concreting	0	0		09OCT10		09OCT10	2	1,178						
04L1A1812	4L 6; On completion of Cascade	0	0		22OCT11		22OCT11	2	800						
04L1A1814	4L 7; On completion of connecting BC	0	0		22OCT11		22OCT11	2	800						
04L1A1816	4L 8; On completion of all works under this CC	0	0		22MAR12		22MAR12	2	648						
Schedule of Milestones for Cost Centre No. 7R															
07R1A1902	7R 1; On completion of trash grills	0	0		12DEC11		12DEC11	2	749						
07R1A1904	7R 2; On completion of 25% excavation	0	0		29JUN09		29JUN09	2	1,645						
07R1A1906	7R 3; On completion of 50% excavation	0	0		25SEP09		25SEP09	2	1,557						
07R1A1908	7R 4; On completion of 75% excavation	0	0		02DEC09		02DEC09	2	1,489						
07R1A1910	7R 5; On completion of all excavation	0	0		19JAN10		19JAN10	2	1,441						
07R1A1912	7R 6; On completion of spiral ramp to +80mPD	0	0		21APR10		21APR10	2	1,349						
07R1A1914	7R 7; On completion of spiral ramp to +90mPD	0	0		02JUN10		02JUN10	2	1,307						
07R1A1916	7R 8; On completion of spiral ramp to +100mPD	0	0		13JUL10		13JUL10	2	1,266						

ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
07R1A1918	7R 9; On completion of spiral access ramp	0	0		24AUG10		24AUG10	2	1,224						
07R1A1920	7R 10; On completion of all works under this CC	0	0		22MAR12		22MAR12	2	648						
Schedule of Milestones for Cost Centre No. 11R															
11R2A1R02	11R 1; On completion of soil nailing works	0	0		06SEP08A		06SEP08A	2							
11R2A1R04	11R 2; On completion of piling at platform	0	0		26NOV10		26NOV10	2	1,130						
11R2A1R06	11R 3; On completion of piling at branch access	0	0		02JAN12		02JAN12	2	728						
11R2A1R08	11R 4; On completion of all works under this CC	0	0		03DEC10		03DEC10	2	1,123						
Construction of Intake I-2															
Preliminary Works															
Additional GI Works to Finalize Design															
AGIB-02	Erect platform/mobilization & set up GI rig	3	3	12SEP08A	16SEP08A	12SEP08A	16SEP08A	1							
AGIB-04	Drill 3 nos. GI holes for Intake Structures	22	22	17SEP08A	03NOV08A	17SEP08A	03NOV08A	1							
AGIB-06	Drill 1 hole for Intersection with Main Tunnel	12	12	11NOV08A	24NOV08A	11NOV08A	24NOV08A	1							
Diversion of CLP Overhead Cable															
01R1BU0102	Temporary diversion of CLP overhead cable	30	30	02SEP08A	17OCT08A	02SEP08A	17OCT08A	2							
Diversion of 100mm Watermain															
01R1BU0202	Temporary Diversion of 100mm dia. Watermain	64*	64*	03OCT08A	05DEC08A	03OCT08A	05DEC08A	2							
01R1BU0204	Issue VO35 for temp. diversion	1	1	03OCT08A	03OCT08A	03OCT08A	03OCT08A	1							
01R1BU0206	Preparation works	26	26	04OCT08A	04NOV08A	04OCT08A	04NOV08A	1							
01R1BU0208	Install steel support	3	3	05NOV08A	07NOV08A	05NOV08A	07NOV08A	1							
01R1BU0210	Lay new watermain	2	2	08NOV08A	18NOV08A	08NOV08A	18NOV08A	1							
01R1BU0212	Obtain ICE certificate for temp. support	0	0		19NOV08A		19NOV08A	1							
01R1BU0214	Pressure test	2	2	20NOV08A	21NOV08A	20NOV08A	21NOV08A	1							
01R1BU0216	Sterilise new pipe & take water sample	3	3	22NOV08A	25NOV08A	22NOV08A	25NOV08A	1							
01R1BU0218	Watermain connection by WSD	10	10	26NOV08A	05DEC08A	26NOV08A	05DEC08A	2							
VO #11; Transparent Hoarding at I-2															
VO011-02	Receive VO11 for transparent hoarding	0	0		14JUL08A		14JUL08A	1							
VO011-04	Procure/prepare/install transparent hoarding	51	51	15JUL08A	13SEP08A	15JUL08A	13SEP08A	1							
VO#32; Replace Hoarding by Chain Link Fence															
VO032-202	Receive VO-32 for replacing hoarding by CLF	0	0		16SEP08A		16SEP08A	1							
VO032-204	Procure/prepare/install transparent hoarding	51	51	17SEP08A	17NOV08A	17SEP08A	17NOV08A	1							
01R1BI2102	Possession of Portion B -90d of DOC	0	0		26MAR08A		26MAR08A	2							
01R1BI2104	Obtain TTA (ingress & egress) approval	0	0		19APR08A		19APR08A	2							
01R1BI2108	Site clearance	30	30	02MAY08A	05SEP08A	02MAY08A	05SEP08A	1							
01R1BI2112	Erect hoarding	30	30	05JUN08A	16MAR09A	05JUN08A	16MAR09A	1							
01R1BI2116	Install remote control CCTV as per ER 4.4.10	12	12	28FEB09A	13MAR09A	28FEB09A	13MAR09A	1							
16R7BI2002	Tree transplanting; 1 no.	72	72	10DEC08A	23APR09A	10DEC08A	23APR09A	1							
Stream Diversion/Approach Channel/H-Pile Wall															
Revised Layout of Pile Wall at I-2															
VO022-02	Received VO22 for revised layout of pile wall	0	0		10JUL08A		10JUL08A	1							

ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
VO022-04	SOR confirmed to demolish exit. ret. wall	38	38	11JUL08A	21AUG08A	11JUL08A	21AUG08A	1						
VO022-05	Demolish existing retaining wall	1	1	13SEP08A	13SEP08A	13SEP08A	13SEP08A	1						
VO022-16	Reinstate piling platform	2	2	16SEP08A	17SEP08A	16SEP08A	17SEP08A	1						
Phase 1; Construct 550 dia. H-pile Wall														
12R3BI2202	Form temp. access ramp along west side of stream	44	44	10JUN08A	31JUL08A	10JUN08A	31JUL08A	1						
12R3BI2204	Additional SI & engineering works	26	26	25AUG08A	24SEP08A	25AUG08A	24SEP08A	1						
12R3BI2206	Mobilize piling rig & set up	5	5	25SEP08A	30SEP08A	25SEP08A	30SEP08A	1						
12R3BI2208	Construct piles 1 to 18	13	13	02OCT08A	17OCT08A	02OCT08A	17OCT08A	1						
12R3BI2210	Piling works stopped by the SOR	8	8	18OCT08A	27OCT08A	18OCT08A	27OCT08A	1						
12R3BI2212	Construct piles 19-58	28	28	28OCT08A	26NOV08A	28OCT08A	26NOV08A	1						
12R3BI2214	SOR's instruction to delet pile 59	0	0		02DEC08A		02DEC08A	1						
12R3BI2216	Demobilize piling rig	4	4	03DEC08A	06DEC08A	03DEC08A	06DEC08A	1						
12R3BI2218	Construct skin wall/capping beam/u-channel	70*	70*	25JUN09	15SEP09	25JUN09	15SEP09	1	80					
12R3BI2220	Excavate for skin wall; 4 bays	18	18	25JUN09	16JUL09	25JUN09	16JUL09	1	80					
12R3BI2222	Construct for skin wall; 4 bays	24	24	17JUL09	13AUG09	17JUL09	13AUG09	1	80					
12R3BI2224	Construct capping beam; 4 bays	16	16	14AUG09	01SEP09	14AUG09	01SEP09	1	80					
12R3BI2226	Construct drainage; 4 bays	12	12	02SEP09	15SEP09	02SEP09	15SEP09	1	80					
Phase 1; Construct Dry Weather Flow Channel														
08R1BI2202	Excavate for new low flow channel	6	6	27MAR09A	03APR09A	27MAR09A	03APR09A	1						
08R1BI2204	Construct new low flow channel	6	6	11JUN09	17JUN09	11JUN09	17JUN09	1	-196					
08R1BI2208	Remove block wall/excavate for gantry footing	12	12	18JUN09	02JUL09	18JUN09	02JUL09	1	-196					
08R3BI2212	Construct PC bund wall to protect gantry footing	6	6	03JUL09	09JUL09	03JUL09	09JUL09	1	-196					
Phase 2; Construct Approach Channel West														
08R1BI2218	Construct temp. concrete block bund	12	12	02NOV09*	14NOV09	02NOV09*	14NOV09	1	43					
08R1BI2220	Excavate for western portion guide wall & slab	12	12	16NOV09	28NOV09	16NOV09	28NOV09	1	43					
08R1BI2222	Construct western portion of guide wall & slab	50	50	30NOV09	29JAN10	30NOV09	29JAN10	1	43					
08R1BI2224	Remove concrete block bund	6	6	30JAN10	05FEB10	30JAN10	05FEB10	1	43					
Phase 3; Construct Approach Channel North														
08R1BI2226	Construct temp. concrete block bund	6	6	01NOV10*	06NOV10	01NOV10*	06NOV10	1	22					
08R1BI2228	Excavate for L-shaped retaining wall	12	12	08NOV10	20NOV10	08NOV10	20NOV10	1	22					
08R1BI2230	Construct L-shaped retaining wall	18	18	22NOV10	11DEC10	22NOV10	11DEC10	1	22					
08R1BI2232	Excavate eastern portion of guide wall & slab	12	12	13DEC10	28DEC10	13DEC10	28DEC10	1	22					
08R1BI2234	Construction of boulder traps; 7nos.	24	24	29DEC10	26JAN11	29DEC10	26JAN11	1	22					
08R1BI2236	Construct eastern portion of guide wall & slab	24	24	27JAN11	26FEB11	27JAN11	26FEB11	1	22					
08R1BI2240	Remove temp. concrete block bund	6	6	28FEB11	05MAR11	28FEB11	05MAR11	1	22					
Phase 4 - Construct Remaining Appr. Channel														
08R1BI2242	Remove gantry crane & steel deck	18	18	16DEC11	10JAN12	16DEC11	10JAN12	1	-196					
08R1BI2244	Excavation for remaining approach channel	12	12	11JAN12	27JAN12	11JAN12	27JAN12	1	-196					
08R1BI2246	Construct remaining approach channel	24	24	28JAN12	24FEB12	28JAN12	24FEB12	1	-196					
08R1BI2248	Close out last section of guide wall	12	12	25FEB12	09MAR12	25FEB12	09MAR12	1	-196					
08R1BI2250	Construct trash grill	12	12	25FEB12	09MAR12	25FEB12	09MAR12	1	-196					

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Excavate & Construct Vortex/Drop Shaft															
Steel Deck & Gantry Crane/Noise Enclosure															
05L1BI2300	Construct 8 nos. mini piles	24	24	20JAN09A	21FEB09A	20JAN09A	21FEB09A	1							
05L1BI2301	Erect timber platform for mini piling	4	4	23FEB09A	26FEB09A	23FEB09A	26FEB09A	1							
05L1BI2302	Construct 6 nos. mini piles	12	12	27FEB09A	12MAR09A	27FEB09A	12MAR09A	1							
05L1BI2303	Excavation for footing/pile caps	12	12	13MAR09A	26MAR09A	13MAR09A	26MAR09A	1							
05L1BI2304	Construction of footing/pile caps	12	12	27MAR09A	18APR09A	27MAR09A	18APR09A	1							
05L1BI2305	Install steel deck	25	25	04MAY09A	30JUL09	04MAY09A	30JUL09	1	-175						
05L1BI2316	Construct footing for gantry crane	12	12	25AUG09	07SEP09	25AUG09	07SEP09	1	-196						
05L1BI2318	Install gantry crane & noise enclosure	42	42	08SEP09	29OCT09	08SEP09	29OCT09	1	-196						
Ground Treatment Works for Vortex Shaft															
05L1BI2306	Setting up	2	2	10JUL09	11JUL09	10JUL09	11JUL09	1	-196						
05L1BI2308	Probing & curtain grouting around shaft	37	37	13JUL09	24AUG09	13JUL09	24AUG09	1	-196						
Excavation and Construction of Vortex Shaft															
05L1BI2320	Excavate shaft; +99mPD to +65mPD (30m)	118	118	30OCT09	23MAR10	30OCT09	23MAR10	1	-196						
05L1BI2321	Set up for lining construction	6	6	11NOV11	17NOV11	11NOV11	17NOV11	1	-196						
05L1BI2322	Construct permanent lining; 30m @ 4m/4days	30	30	11NOV11	15DEC11	11NOV11	15DEC11	1	-196						
Excavate & Construct Air Vent Shaft															
05L1BI2418	Enlarge the platform for RCD operation	15	15	08DEC08A	27DEC08A	08DEC08A	27DEC08A	1							
05L1BI2420	Mobilize & set up RCD for excavation	6	6	29DEC08A	06JAN09A	29DEC08A	06JAN09A	1							
05L1BI2422	Bore shaft with RCD; 37.5m @1m/day	54	54	07JAN09A	13MAR09A	07JAN09A	13MAR09A	1							
05L1BI2424	Demobilize RCD rig	5	5	14MAR09A	19MAR09A	14MAR09A	19MAR09A	1							
05L1BI2426	Install permanent steel liner	3	3	20MAR09A	23MAR09A	20MAR09A	23MAR09A	1							
05L1BI2427	Preparation works for casting concrete	1	1	21MAR09A	25APR09A	21MAR09A	25APR09A	1							
05L1BI2428	Damage found on installed steel liner	0	0		25APR09A		25APR09A	1							
05L1BI2429	Removal of steel liner	31	31	27APR09A	04JUN09	27APR09A	04JUN09	1	-196						
05L1BI2430	Remove RCD platform	17	17	05JUN09	24JUN09	05JUN09	24JUN09	1	-196						
05L1BI2432	Construct PC bund wall	12	12	25JUN09	09JUL09	25JUN09	09JUL09	1	-196						
05L1BI2434	Divert channel to West	0	0		09JUL09		09JUL09	1	-196						
05L1BI2436	Footing for gantry crane	12	12	02NOV09*	14NOV09	02NOV09*	14NOV09	1	-96						
05L1BI2438	Erection of gantry crane	36	36	16NOV09	29DEC09	16NOV09	29DEC09	1	-96						
05L1BI2440	Set up sliding system	6	6	30DEC09	06JAN10	30DEC09	06JAN10	1	-96						
05L1BI2446	Install steel casing	36	36	07JAN10	20FEB10	07JAN10	20FEB10	1	-96						
05L1BI2448	Survey checking & capping concrete	3	3	22FEB10	24FEB10	22FEB10	24FEB10	1	-96						
05L1BI2450	Preparation & concreting	3	3	25FEB10	27FEB10	25FEB10	27FEB10	1	-96						
05L1BI2452	Construct upstand wall	24	24	01MAR10*	27MAR10	01MAR10*	27MAR10	1	-96						
Excavate & Construct Man Access Shaft															
Ground Treatment for Man Access Shaft															
05L1BI2502	Probing & curtain grouting around shaft	31	31	10JUL09	14AUG09	10JUL09	14AUG09	1	-50						
Gantry Crane & Noise Enclosure at M. A. Shaft															
05L1BI2504	Excavate & construct 4 nos. gantry footings	12	12	15AUG09	28AUG09	15AUG09	28AUG09	1	-50						

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
05L1BI2505	Install gantry crane & noise enclosure	36	36	29AUG09	12OCT09	29AUG09	12OCT09	1 -50						
ELS and Excavation upto Rock Head Level at M.A.														
05L1BI2503	Install sheet piles	6	6	15AUG09	21AUG09	15AUG09	21AUG09	1 -44						
05L1BI2506	Excavation to rock head level	18	18	13OCT09	03NOV09	13OCT09	03NOV09	1 -50						
Excavation & Construction of Man Access Shaft														
05L1BI2508	Excavation/muck out/temporary support	127	127	04NOV09	12APR10	04NOV09	12APR10	1 -50						
05L1BI2522	Construct base	4	4	15MAR11	18MAR11	15MAR11	18MAR11	1 -50						
05L1BI2524	Set up for 37m shaft construction (wall only)	6	6	19MAR11	25MAR11	19MAR11	25MAR11	1 -50						
05L1BI2526	Construct wall/stair, 25 landings @ 3 days/land	75	75	26MAR11	28JUN11	26MAR11	28JUN11	1 -50						
05L1BI2528	Removal of gantry crane	12	12	29JUN11	13JUL11	29JUN11	13JUL11	1 -50						
05L1BI2530	Construct wall above ground level	8	8	14JUL11	22JUL11	14JUL11	22JUL11	1 -50						
05L1BI2532	Construct shaft roof	12	12	23JUL11	05AUG11	23JUL11	05AUG11	1 -50						
Excavate & Construct Deaeration Chamber														
05L1BI2602	Probing/grout/excavate/muckout/temp.support	72	72	24MAR10	23JUN10	24MAR10	23JUN10	1 -196						
05L1BI2604	Drill/excavate/muckout/temp. support for bench	50	50	24JUN10	21AUG10	24JUN10	21AUG10	1 -196						
05L1BI2607	Drill/excavate/muckout/temp. support for bottom	50	50	23AUG10	22OCT10	23AUG10	22OCT10	1 -196						
05L1BI2608	Set up for lining construction	12	12	26AUG11	08SEP11	26AUG11	08SEP11	1 -196						
05L1BI2610	Construct base, 3 bays	9	9	09SEP11	20SEP11	09SEP11	20SEP11	1 -196						
05L1BI2612	Construct walls 2 lifts, 3 bays	24	24	21SEP11	20OCT11	21SEP11	20OCT11	1 -196						
05L1BI2614	Const. crown/underpin. of air vent & drop shafts	18	18	21OCT11	10NOV11	21OCT11	10NOV11	1 -196						
Excavate & Construct Main Adit Tunnel														
3BL1BI2102	Probing/grout/temp. support/excavation/muck out	200	200	23OCT10	27JUN11	23OCT10	27JUN11	1 -196						
3BL1BI2104	Construct permanent lining	50	50	28JUN11	25AUG11	28JUN11	25AUG11	1 -196						
Excavate & Construct Man Access Adit														
Upper Horizontal Section														
05L1BI2806	Probing/grout/excavate/muckout/temporary support	90	90	13APR10	30JUL10	13APR10	30JUL10	1 -50						
05L1BI2830	Set up for 23m upper adit construction	6	6	26JAN11	01FEB11	26JAN11	01FEB11	1 -50						
05L1BI2834	Construction of permanent lining	32	32	02FEB11	14MAR11	02FEB11	14MAR11	1 -50						
Vertical Section														
05L1BI2807	Probing & curtain grouting around shaft	24	24	31JUL10	27AUG10	31JUL10	27AUG10	1 -50						
05L1BI2808	Set up for 7.2m raise (shaft) excavation	2	2	28AUG10	30AUG10	28AUG10	30AUG10	1 -50						
05L1BI2810	Excavate/removal of rock/temporary support	24	24	31AUG10	28SEP10	31AUG10	28SEP10	1 -50						
05L1BI2822	Construct base of raise shaft	4	4	09DEC10	13DEC10	09DEC10	13DEC10	1 -50						
05L1BI2824	Set up for 9m raise stairway const. (wall only)	6	6	14DEC10	20DEC10	14DEC10	20DEC10	1 -50						
05L1BI2826	Construct wall & stair, 7 landings @4days/landin	28	28	21DEC10	25JAN11	21DEC10	25JAN11	1 -50						
Lower Horizontal Section														
05L1BI2812	Set up for 9.3m lower adit excavation	2	2	29SEP10	30SEP10	29SEP10	30SEP10	1 -50						
05L1BI2814	Excavate/removal of rock/temporary support	31	31	02OCT10	08NOV10	02OCT10	08NOV10	1 -50						
05L1BI2816	Set up for 7m lower adit construction	6	6	09NOV10	15NOV10	09NOV10	15NOV10	1 -50						
05L1BI2818	Construction of permanent lining for lower adit	20	20	16NOV10	08DEC10	16NOV10	08DEC10	1 -50						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Junction Between Main Tunnel & Adit Tunnel															
3BL1BI2106	Temp. support & excavation breakthrough	48	48	26AUG11	24OCT11	26AUG11	24OCT11	1	-127						
3BL1BI2108	Construct collar between MT & AT	48	48	25OCT11	19DEC11	25OCT11	19DEC11	1	-127						
Remaining Works Prior to Handover															
08R1BI2102	Finishing & reinstatement works; Portion B	36	36	04FEB12	16MAR12	04FEB12	16MAR12	1	-196						
08R1BI2103	Pre-handover inspections and remedial works	30	30	18FEB12	23MAR12	18FEB12	23MAR12	1	-196						
08R1BI2104	Contractor serve notice for Works completion	7	7	24MAR12	30MAR12	24MAR12	30MAR12	2	0						
08R1BI2105	SO issues completion certificate	21	21	31MAR12	20APR12	31MAR12	20APR12	2	0						
16R7BI2102	Landscaping works at Portion B	72	72	16DEC11	16MAR12	16DEC11	16MAR12	1	-158						
16R7BI2104	Establishment Works at Portion B	365	365	17MAR12	16MAR13	17MAR12	16MAR13	2	-196						
3DL1BI2101	Install flow measurement devices at Intake I-2	12	12	07FEB12	20FEB12	07FEB12	20FEB12	1	-184						
3DL1BI2105	Maintain & monitor flow monitoring	365	365	21FEB12	19FEB13	21FEB12	19FEB13	2	0						
Schedule of Milestones for Cost Centre No. 3bL															
3BL1BI2A02	3bL 1; On establishing tunnelling equipments	0	0		22OCT10		22OCT10	2	1,165						
3BL1BI2A04	3bL 2; On completion of 12.5% perm. tunnel lining	0	0		18NOV10		18NOV10	2	1,138						
3BL1BI2A06	3bL 3; On completion of 25% perm. tunnel lining	0	0		16DEC10		16DEC10	2	1,110						
3BL1BI2A08	3bL 4; On completion of 37.5% perm. tunnel lining	0	0		15JAN11		15JAN11	2	1,080						
3BL1BI2A10	3bL 5; On completion of 50% perm. tunnel lining	0	0		15FEB11		15FEB11	2	1,049						
3BL1BI2A12	3bL 6; On completion of 62.5% perm. tunnel lining	0	0		15MAR11		15MAR11	2	1,021						
3BL1BI2A14	3bL 7; On completion of 75% perm. tunnel lining	0	0		12APR11		12APR11	2	993						
3BL1BI2A16	3bL 8; On completion of 87.5% perm. tunnel lining	0	0		09JUL11		09JUL11	2	905						
3BL1BI2A18	3bL 9; On completion of perm. tunnel lining	0	0		25AUG11		25AUG11	2	858						
3BL1BI2A20	3bL 10; On completion of all works under this CC	0	0		19DEC11		19DEC11	2	742						
Schedule of Milestones for Cost Centre No. 5L															
05L1BI2M02	5L 1; On completion of 25% of excavation	0	0		08DEC09		08DEC09	2	1,483						
05L1BI2M04	5L 2; On completion of 50% of excavation	0	0		12APR10		12APR10	2	1,358						
05L1BI2M06	5L 3; On completion of 75% of excavation	0	0		23JUN10		23JUN10	2	1,286						
05L1BI2M08	5L 4; On completion of all excavation	0	0		22OCT10		22OCT10	2	1,165						
05L1BI2M10	5L 5; On completion of drop shaft & vortex shaft	0	0		15DEC11		15DEC11	2	746						
05L1BI2M12	5L 6; On completion of de-aeration chamber	0	0		10NOV11		10NOV11	2	781						
05L1BI2M14	5L 7; On completion of air vent shaft	0	0		27MAR10		27MAR10	2	1,374						
05L1BI2M16	5L 8; On completion of man access shaft	0	0		05AUG11		05AUG11	2	878						
05L1BI2M18	5L 9; On completion of man access adit	0	0		14MAR11		14MAR11	2	1,022						
05L1BI2M20	5L 10; On completion of all works under this CC	0	0		23MAR12		23MAR12	2	647						
Schedule of Milestones for Cost Centre No. 8R															
08R1BI2R02	8R 1; On completion of approach channel	0	0		09MAR12		09MAR12	2	661						
08R1BI2R04	8R 2; On completion of trash grill	0	0		09MAR12		09MAR12	2	661						

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08R1BI2R06	8R 3; On completion of all works under this CC	0	0		23MAR12		23MAR12	2	647					
Schedule of Milestones for Cost Centre No. 12R														
12R3BI2S02	12R 1; On completion of 50% pile retain. wall	0	0		06NOV08A		06NOV08A	2						
12R3BI2S04	12R 2; On completion of pile retain. wall	0	0		26NOV08A		26NOV08A	2						
12R3BI2S06	12R 3; On completion of boulder traps	0	0		26JAN11		26JAN11	2	1,069					
12R3BI2S08	12R 4; On completion of all works under this CC	0	0		23MAR12		23MAR12	2	647					
Construction of Intake I-3														
Preliminary Works														
Additional GI Works To Finalize Design														
AGIC-02	Erect platform/mobilization & set up GI rig	3	3	03NOV08A	05NOV08A	03NOV08A	05NOV08A	1						
AGIC-04	Drill 3 nos. GI holes for Intake Structures	12	12	06NOV08A	19NOV08A	06NOV08A	19NOV08A	1						
VO#32; Replace Hoarding by Chain Link Fence														
VO032-1302	Received VO-32 for replacing hoarding by CLF	0	0		16SEP08A		16SEP08A	1						
VO032-1304	Procure/prepare/install transparent hoarding	80	80	17SEP08A	06MAR09A	17SEP08A	06MAR09A	1						
01R1CI3102	Possession of Portion C -90d of DOC	0	0	26MAR08A		26MAR08A		2						
01R1CI3104	Site clearance	40	40	22APR08A	20SEP08A	22APR08A	20SEP08A	1						
01R1CI3106	Hoarding at slope crest	48	48	03JUN08A	30JUL08A	03JUN08A	30JUL08A	1						
01R1CI3110	Set-up wheel washing facilities	6	6	30JUN08A	03JUL08A	30JUN08A	03JUL08A	1						
01R1CI3118	Install remote control CCTV as per ER 4.4.10	12	12	28OCT08A	10NOV08A	28OCT08A	10NOV08A	1						
Tree Transplanting Works														
16R7CI3202	Tree inspection & report	7	7	01APR08A	26APR08A	01APR08A	26APR08A	2						
16R7CI3204	Tree transplant for upper parts; 8 nos.	86*	86*	04JUN08A	13SEP08A	04JUN08A	13SEP08A	1						
16R7CI3206	1st stg tree pruning	2	2	04JUN08A	21JUN08A	04JUN08A	21JUN08A	1						
16R7CI3208	2nd stg tree pruning	2	2	04JUL08A	04JUL08A	04JUL08A	04JUL08A	1						
16R7CI3210	Final stg. tree pruning & tree uplifting	6	6	08SEP08A	13SEP08A	08SEP08A	13SEP08A	1						
16R7CI3212	Tree transplanting at Ch250-Ch200; 20 nos.	214*	214*	21JUN08A	09MAR09A	21JUN08A	09MAR09A	1						
16R7CI3214	1st stg tree pruning	3	3	21JUN08A	15JUL08A	21JUN08A	15JUL08A	1						
16R7CI3216	2nd stg tree pruning	3	3	15JUL08A	12SEP08A	15JUL08A	12SEP08A	1						
16R7CI3218	Final stg tree pruning & tree uplifting	8	8	28FEB09A	09MAR09A	28FEB09A	09MAR09A	1						
16R7CI3220	Tree transplanting at Ch100-Ch0	66*	66*	12NOV09	30JAN10	12NOV09	30JAN10	1	17					
16R7CI3222	1st stg tree pruning	4	4	12NOV09	16NOV09	12NOV09	16NOV09	1	17					
16R7CI3224	2nd stg tree pruning	4	4	15DEC09	18DEC09	15DEC09	18DEC09	1	17					
16R7CI3226	Final stg tree pruning & tree uplifting	10	10	20JAN10	30JAN10	20JAN10	30JAN10	1	17					
H-Pile Retaining Wall for Wall A														
Piling Works														
13R4CI3400	Mobilize & set up piling rig	6	6	11AUG08A	16AUG08A	11AUG08A	16AUG08A	1						
13R4CI3401	Drill 28 nos. grout (partially) 11 nos. piles	1	1	18AUG08A	28AUG08A	18AUG08A	28AUG08A	1						
13R4CI3402	Piling stopped due to accessive grout loss	1	1	29AUG08A	22OCT08A	29AUG08A	22OCT08A	1						
13R4CI3403	Piling resumed date	1	1	26NOV08A	26NOV08A	26NOV08A	26NOV08A	1						

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13R4CI3405	Complete all H-piles, Wall A; 347nos.	70	70	18AUG08A	21JAN09A	18AUG08A	21JAN09A	1							
Skin Wall															
13R4CI3406	Excavate for skin wall construction; 2130m3	60	60	14JAN09A	02MAR09A	14JAN09A	02MAR09A	1							
13R4CI3408	Hack off piles; piles 1 to 347	48	48	04FEB09A	02APR09A	04FEB09A	02APR09A	1							
13R4CI3410	Construct skin wall;	60	60	28FEB09A	19MAY09A	28FEB09A	19MAY09A	1							
13R4CI3414	Construct for capping beams;	24	24	14APR09A	04JUN09	14APR09A	04JUN09	1	401						
13R4CI3416	Construct U-channels	37	37	06MAY09A	18JUN09	06MAY09A	18JUN09	1	394						
Soil Nailing Works															
Soil Nailing Outside Excavation Area															
13R1CI3502	Scaffolding platform for soil nailing	18	18	08SEP08A	28OCT08A	08SEP08A	28OCT08A	1							
13R1CI3504	Mobilize & set up drilling & grouting plants	4	4	12SEP08A	17SEP08A	12SEP08A	17SEP08A	1							
13R1CI3506	Install & grout soil nails; 193 nos. + 8 Test N.	69	69	18SEP08A	09DEC08A	18SEP08A	09DEC08A	1							
Soil Nailing Within Excavation; Ch. 270-210															
13R1CI3508	Install & grout soil nails	58*	58*	29JUL09	06OCT09	29JUL09	06OCT09	1	-160						
Soil Nailing Within Excavation; Ch. 210-130															
13R1CI3510	Install & grout soil nails	117*	117*	12DEC08A	11MAY09A	12DEC08A	11MAY09A	1							
Soil Nailing Within Excavation; Ch.130-0															
13R1CI3512	Install & grout soil nails	267*	267*	30OCT09	22SEP10	30OCT09	22SEP10	1	17						
Rem. Soil Nailing Outside Excavation															
13R1CI3522	Scaffolding platform for soil nailing	12	12	10OCT09	23OCT09	10OCT09	23OCT09	1	235						
13R1CI3532	Install & grout soil nails; 261 no.s + 3 Test N.	100	100	24OCT09	25FEB10	24OCT09	25FEB10	1	235						
Access Road Construction															
Preliminary Works for Works Included VO#043															
VO043-010	Receive VO for revising design	0	0		02FEB09A		02FEB09A	1							
VO043-020	Receive amendment to VO#043	0	0		05MAY09A		05MAY09A	2							
VO043-030	Procurement of lean mix concrete	12	12	06MAY09A	14MAY09A	06MAY09A	14MAY09A	1							
VO043-040	Testing & approval of lean mix concrete	18	18	15MAY09A	06JUN09	15MAY09A	06JUN09	1	-156						
Mass Wall to Protect Retained Trees; VO #043															
VO043-120	Setting out at site	69	69	03FEB09A	28APR09A	03FEB09A	28APR09A	1							
VO043-130	Excavate & muck out manually; 50m @ 4m/day	2	2	29APR09A	30APR09A	29APR09A	30APR09A	1							
VO043-140	Erect formwork; 70m2 @ 14m2/day	5	5	04MAY09A	08MAY09A	04MAY09A	08MAY09A	1							
VO043-150	Set up for concreting	2	2	08MAY09A	09MAY09A	08MAY09A	09MAY09A	1							
VO043-160	Pour concrete & removal of formwork	2	2	09MAY09A	11MAY09A	09MAY09A	11MAY09A	1							
Ch.460 to 370; VO# 043															
VO043-060	Bulk excavation for benching;1061 @ 45m3/day	12	12	29MAY09	11JUN09	29MAY09	11JUN09	1	-160						
VO043-070	Fill & compaction; 39 layers @ 1 day/layer	39	39	12JUN09	28JUL09	12JUN09	28JUL09	1	-160						
Ch. 370 to Ch. 270; VO #043															
VO043-090	Excavation for access road Ch. 370 to 310	4	4	29JUL09	01AUG09	29JUL09	01AUG09	1	-160						
VO043-100	Bulk excavation for benching; Ch. 310 to 270	5	5	03AUG09	07AUG09	03AUG09	07AUG09	1	-160						
VO043-110	Fill & compaction lean mix concrete; 15 layers	15	15	08AUG09	25AUG09	08AUG09	25AUG09	1	-160						
Works On & Above Access Road; Ch. 460-270															
09R1CI3610	Temporary concrete paving & curing	16	16	26AUG09	12SEP09	26AUG09	12SEP09	1	-139						

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09R1C13620	Excavation of slope batter above access road	47	47	14SEP09	10NOV09	14SEP09	10NOV09	1	321						
Ch. 270 to Ch. 210															
09R1C13624	Excavation & soil nailing	54	54	29JUL09	29SEP09	29JUL09	29SEP09	1	-160						
09R1C13626	Backfill (grade 200) & compaction	3	3	07OCT09	09OCT09	07OCT09	09OCT09	1	-160						
09R1C13628	Temporary concrete paving & curing	10	10	10OCT09	21OCT09	10OCT09	21OCT09	1	-160						
Ch. 210 to Ch. 130															
09R1C13630	Excavation as per conforming design	48	48	12DEC08A	11MAY09A	12DEC08A	11MAY09A	1							
09R1C13632	Temporary concrete paving & curing	12	12	13NOV09	26NOV09	13NOV09	26NOV09	1	55						
VO-084-02	VO#084 revising the design received	0	0	12MAY09A		12MAY09A			1						
VO-084-12	Works resumed as per VO #084	0	0	16MAY09A		16MAY09A			1						
VO-084-22	Excavate slope profile as per VO#084	34	34	16MAY09A	25JUN09	16MAY09A	25JUN09	1	-79						
VO-084-26	Remove excavated material off site; 6000m3	18	18	22OCT09	12NOV09	22OCT09	12NOV09	1	55						
VO-084-32	Soil nailing at Ch. 198 to 210	4	4	30SEP09	06OCT09	30SEP09	06OCT09	1	-160						
VO-084-42	Excavate to access road formation	18	18	26APR11	17MAY11	26APR11	17MAY11	1	-160						
Ch. 130 to Ch. 0; up to +74.5mPD															
09R1C13634	Excavation & soil nailing	62	62	30OCT09	13JAN10	30OCT09	13JAN10	1	17						
09R1C13636	Temporary concrete paving & curing	15	15	14JAN10	30JAN10	14JAN10	30JAN10	1	17						
Ch. 130 to Ch. 0; below +74.5mPD															
09R1C13638	Excavate & soil nailing (+74.5 to 88.5mPD)	41	41	06AUG10	22SEP10	06AUG10	22SEP10	1	17						
09R1C13640	Excavate rock (88.5 to 63mPD; 3239m3 @ 80m3/day)	40	40	24SEP10	11NOV10	24SEP10	11NOV10	1	17						
09R1C13642	Backfill (grade 200) & compaction	7	7	12NOV10	19NOV10	12NOV10	19NOV10	1	17						
Drainage & Road Paving; Ch. 460 to Ch. 270															
09R1C13664	Construct drainage as per VO#090; 190m @ 5m/day	32	32	29JUN11	05AUG11	29JUN11	05AUG11	1	-160						
09R1C13674	Road formation; 190m @ 12m/day	20	20	06AUG11	29AUG11	06AUG11	29AUG11	1	-157						
09R1C13684	Lay sub-base and kerb; 190m @ 12m/day	16	16	30AUG11	17SEP11	30AUG11	17SEP11	1	-157						
09R1C13694	Concrete paving; 190m @ 12m/day	16	16	19SEP11	08OCT11	19SEP11	08OCT11	1	-157						
VO-095-02	Green slope arrangement as per VO# 095	24	24	09JUL11	05AUG11	09JUL11	05AUG11	1	-157						
Drainage & Road Paving; Ch. 270 to Ch. 130															
09R1C13644	Construct drainage; 140m @ 4m/day	35	35	18MAY11	28JUN11	18MAY11	28JUN11	1	-160						
09R1C13646	Backfill trench & road formation; 140m @ 12m/day	12	12	29JUN11	13JUL11	29JUN11	13JUL11	1	-137						
09R1C13648	Lay sub-base and kerb; 140m @ 12m/day	12	12	14JUL11	27JUL11	14JUL11	27JUL11	1	-125						
09R1C13654	Concrete paving; 140m @ 12m/day	12	12	28JUL11	10AUG11	28JUL11	10AUG11	1	-125						
Drainage & Road paving; Ch. 130 to Ch. 0															
09R1C13704	Construct drainage; 130m @ 4m/day	33	33	06AUG11	14SEP11	06AUG11	14SEP11	1	-160						
09R1C13714	Backfill trench & road formation; 130m @ 12m/day	11	11	15SEP11	27SEP11	15SEP11	27SEP11	1	-160						
09R1C13724	Lay sub-base & kerb; 130m @ 12m/day	11	11	28SEP11	12OCT11	28SEP11	12OCT11	1	-160						
09R1C13734	Concrete paving; 130m @ 12m/day	11	11	13OCT11	25OCT11	13OCT11	25OCT11	1	-160						
H-Pile Retaining Wall for Wall B															
Piling Works															
13R4C13701	Form piling platform for Wall B	12	12	01FEB10	17FEB10	01FEB10	17FEB10	1	17						
13R4C13702	Mobilize & set up piling rig	6	6	18FEB10	24FEB10	18FEB10	24FEB10	1	17						
13R4C13704	350mm dia. pre-bored H-piles, Wall B; 98 nos.	53	53	25FEB10	03MAY10	25FEB10	03MAY10	1	17						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
13R4C13705	Demobilize piling rig	6	6	04MAY10	10MAY10	04MAY10	10MAY10	1	17						
Skin Wall															
13R4C13706	Excavate for skin wall; 48m3	18	18	11MAY10	01JUN10	11MAY10	01JUN10	1	17						
13R4C13708	Hack off piles; piles 1 to 98	24	24	26MAY10	23JUN10	26MAY10	23JUN10	1	17						
13R4C13710	Construct skin wall; 6 bays	24	24	09JUN10	08JUL10	09JUN10	08JUL10	1	17						
13R4C13712	Excavate for capping beams;	12	12	02JUL10	15JUL10	02JUL10	15JUL10	1	17						
13R4C13714	Construct for capping beams;	18	18	09JUL10	29JUL10	09JUL10	29JUL10	1	17						
13R4C13716	Construct U-channels	18	18	16JUL10	05AUG10	16JUL10	05AUG10	1	17						
Channel Modification Works (Dry Season)															
River Diversion for Underground Works															
09R1C13802	Form a temporary plant access to stream	60	60	12DEC08A	04FEB09A	12DEC08A	04FEB09A	1							
09R1C13804	Break boulders	32	32	05FEB09A	24FEB09A	05FEB09A	24FEB09A	1							
09R1C13806	Concrete bedding for bund wall (gabion)	11	11	25FEB09A	09MAR09A	25FEB09A	09MAR09A	1							
09R1C13808	Construct bund wall (gabion)	22	22	10MAR09A	30APR09A	10MAR09A	30APR09A	1							
09R1C13810	Divert channel to south west	0	0		30APR09A		30APR09A	1							
Channel Modification Works															
09R1C13812	Breaking of large boulders	30	30	02NOV09*	05DEC09	02NOV09*	05DEC09	1	21						
09R1C13814	Excavation of the stream bed & make good	24	24	07DEC09	06JAN10	07DEC09	06JAN10	1	21						
09R1C13816	Laying of rock armour	24	24	07JAN10	03FEB10	07JAN10	03FEB10	1	21						
09R1C13818	Construct bund wall for approach channel const.	24	24	04FEB10	06MAR10	04FEB10	06MAR10	1	21						
09R1C13820	Divert channel to south west	0	0		06MAR10		06MAR10	1	21						
Excavation for AVS/NS/DC/MAS/MAA															
Open Excavation for Underground Structures															
06L1C13906	Mobilize drilling rig, backhoes	1	1	30OCT09	30OCT09	30OCT09	30OCT09	1	-160						
06L1C13908	Excavate/mucking out temporary support	200	200	31OCT09	07JUL10	31OCT09	07JUL10	1	-160						
Excavation & Construction of Main Adit															
3CL1C13102	Excavation/mucking out temporary support	40	40	08JUL10	23AUG10	08JUL10	23AUG10	1	-134						
3CL1C13104	Construction of permanent lining	24	24	24AUG10	20SEP10	24AUG10	20SEP10	1	-134						
Construction of Man Access Adit (MAA)															
06L1C13112	Cast invert; 1 bay	7	7	15SEP10	22SEP10	15SEP10	22SEP10	1	-160						
06L1C13114	Cast walls	12	12	24SEP10	08OCT10	24SEP10	08OCT10	1	-160						
06L1C13116	Cast crown	12	12	09OCT10	23OCT10	09OCT10	23OCT10	1	-160						
Construction of Man Access Shaft (MAS)															
06L1C13122	Cast base	3	3	08JUL10	10JUL10	08JUL10	10JUL10	1	-160						
06L1C13124	Set up formworks	6	6	12JUL10	17JUL10	12JUL10	17JUL10	1	-160						
06L1C13126	Construct wall/stair; 14 landings @ 6 days/land.	84	84	19JUL10	27OCT10	19JUL10	27OCT10	1	-160						
06L1C13128	Construct wall above ground level	6	6	31MAR11	07APR11	31MAR11	07APR11	1	-9						
06L1C13129	Construct shaft roof	12	12	08APR11	21APR11	08APR11	21APR11	1	-9						

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
Construction of Deaeration Chamber (DC)														
06L1C13132	Construct base	9	9	25OCT10	03NOV10	25OCT10	03NOV10	1	-160					
06L1C13134	Construct walls 2 lifts	12	12	04NOV10	17NOV10	04NOV10	17NOV10	1	-160					
06L1C13136	Const. crown/underpin of air vent & drop shafts	18	18	18NOV10	08DEC10	18NOV10	08DEC10	1	-160					
Construction of Vortex Shaft (VS)														
06L1C13142	Set up formworks	6	6	17DEC10	23DEC10	17DEC10	23DEC10	1	-160					
06L1C13144	Construction of drop shaft; 4m high	6	6	24DEC10	03JAN11	24DEC10	03JAN11	1	-160					
06L1C13146	Construction of vortex structure	24	24	04JAN11	31JAN11	04JAN11	31JAN11	1	-160					
06L1C13148	Construct remaining of the vortex	18	18	31MAR11	21APR11	31MAR11	21APR11	1	-160					
Construction of Air Vent Shaft (AVS)														
06L1C13152	Set up formworks	6	6	01FEB11	10FEB11	01FEB11	10FEB11	1	-160					
06L1C13514	Cast 15m high circular wall	15	15	11FEB11	28FEB11	11FEB11	28FEB11	1	-160					
06L1C13516	Construct upstand wall	12	12	01MAR11	14MAR11	01MAR11	14MAR11	1	-160					
Backfill Around Structure														
06L1C13162	Granular fill up to +54mPD; 623m3	7	7	09DEC10	16DEC10	09DEC10	16DEC10	1	-160					
06L1C13164	Granular fill above +54mPD; 1400m3	14	14	15MAR11	30MAR11	15MAR11	30MAR11	1	-160					
Construction of Approach Channel														
09R1C13172	Excavation for Approach Channel	60	60	01NOV10*	12JAN11	01NOV10*	12JAN11	1	8					
09R1C13174	Construction of Approach Channel; upstream	82	82	20DEC10	31MAR11	20DEC10	31MAR11	1	8					
09R1C13176	Construction of boulder trap; 7 nos.	24	24	01NOV11*	28NOV11	01NOV11*	28NOV11	1	-165					
09R1C13177	Construction of Approach Channel; downstream	40	40	01NOV11	16DEC11	01NOV11	16DEC11	1	-165					
09R1C13178	Construction of trash grill	12	12	17DEC11	04JAN12	17DEC11	04JAN12	1	-165					
09R1C13179	Removal of concrete bolck bund	6	6	05JAN12	11JAN12	05JAN12	11JAN12	1	-165					
Junction Between Main Tunnel & Adit Tunnel														
3CL1C13106	Temp. support & excavation breakthrough	48	48	19JUL11	12SEP11	19JUL11	12SEP11	1	-94					
3CL1C13108	Construct collar between MT & AT	48	48	14SEP11	10NOV11	14SEP11	10NOV11	1	-94					
Remaining Works Prior to Handover to Client														
09R1C13142	Finishing & reinstatement works; Portion C	36	36	10DEC11	28JAN12	10DEC11	28JAN12	1	-155					
09R1C13143	Pre-handover inspections and remedial works	30	30	28DEC11	04FEB12	28DEC11	04FEB12	1	-155					
09R1C13144	Contractor serve notice for Works completion	7	7	05FEB12	11FEB12	05FEB12	11FEB12	2	667					
09R1C13146	SO issues completion certificate	21	21	12FEB12	03MAR12	12FEB12	03MAR12	2	667					
16R7C13142	Landscaping works at Portion C	120	120	31AUG11	28JAN12	31AUG11	28JAN12	1	-117					
16R7C13144	Establishment Works at Portion C	365	365	29JAN12	27JAN13	29JAN12	27JAN13	2	-148					
3DL1C13141	Install flow measurement devices at Intake I-3	12	12	12JAN12	28JAN12	12JAN12	28JAN12	1	-165					

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
3DL1C13143	Maintain & monitor flow monitoring	365	365	29JAN12	27JAN13	29JAN12	27JAN13	2	-148						
Schedule of Milestones for Cost Centre No. 3cL															
3CL1C13A02	3cL 1; On establishing tunnelling equipments	0	0		14JUL10		14JUL10	2	1,265						
3CL1C13A04	3cL 2; On completion of 12.5% perm. tunnel lining	0	0		23JUL10		23JUL10	2	1,256						
3CL1C13A06	3cL 3; On completion of 25% perm. tunnel lining	0	0		02AUG10		02AUG10	2	1,246						
3CL1C13A08	3cL 4; On completion of 37.5 perm. tunnel lining	0	0		11AUG10		11AUG10	2	1,237						
3CL1C13A10	3cL 5; On completion of 50% perm. tunnel lining	0	0		20AUG10		20AUG10	2	1,228						
3CL1C13A12	3cL 6; On completion of 62.5% perm. tunnel lining	0	0		30AUG10		30AUG10	2	1,218						
3CL1C13A14	3cL 7; On completion of 75% perm. tunnel lining	0	0		08SEP10		08SEP10	2	1,209						
3CL1C13A16	3cL 8; On completion of 87.5% perm. tunnel lining	0	0		20SEP10		20SEP10	2	1,197						
3CL1C13A18	3cL 9; On completion of perm. tunnel lining	0	0		10NOV11		10NOV11	2	781						
3CL1C13A20	3cL 10; On completion of all works under this CC	0	0		10NOV11		10NOV11	2	781						
Schedule of Milestones for Cost Centre No. 6L															
06L1C13M02	6L 1; On completion of 50% of excavation	0	0		26FEB10		26FEB10	2	1,403						
06L1C13M04	6L 2; On completion of excavation works	0	0		07JUL10		07JUL10	2	1,272						
06L1C13M08	6L 3; On completion of vortex shaft	0	0		21APR11		21APR11	2	984						
06L1C13M10	6L 4; On completion of de-aeration chamber	0	0		08DEC10		08DEC10	2	1,118						
06L1C13M12	6L 5; On completion of vent shaft	0	0		14MAR11		14MAR11	2	1,022						
06L1C13M14	6L 6; On completion of man access shaft	0	0		21APR11		21APR11	2	984						
06L1C13M16	6L 7; On completion of man access adit	0	0		23OCT10		23OCT10	2	1,164						
06L1C13M18	6L 8; On completion of all works under this CC	0	0		21APR11		21APR11	2	984						
Schedule of Milestone for Cost Centre No. 9R															
09R1C13R02	9R 1; On completion of access road	0	0		25OCT11		25OCT11	2	797						
09R1C13R04	9R 2; On completion of 25% of excavation at G.L	0	0		11JUN09		11JUN09	2	1,663						
09R1C13R06	9R 3; On completion of 50% of excavation at G.L	0	0		01AUG09		01AUG09	2	1,612						
09R1C13R08	9R 4; On completion of 75% of excavation at G.L	0	0		13JAN10		13JAN10	2	1,447						
09R1C13R10	9R 5; On completion of excavation at G.L	0	0		12JAN11		12JAN11	2	1,083						
09R1C13R12	9R 6; On completion of 50% of approach channel	0	0		22FEB11		22FEB11	2	1,042						
09R1C13R14	9R 7; On completion of approach channel	0	0		31MAR11		31MAR11	2	1,005						
09R1C13R16	9R 8; On completion of trash grill	0	0		04JAN12		04JAN12	2	726						
09R1C13R18	9R 9; On completion of all works under this CC	0	0		04FEB12		04FEB12	2	695						
Schedule of Milestones for Cost Centre No. 13R															
13R4C13S01	13R 1; On completion of 30% soil nailing	0	0		29SEP09		29SEP09	2	1,553						
13R4C13S02	13R 2; On completion of 60% soil nailing	0	0		25FEB10		25FEB10	2	1,404						
13R4C13S03	13R 3; On completion of all soil nailing works	0	0		22SEP10		22SEP10	2	1,195						
13R4C13S04	13R 4; On completion of 10% piles by number	0	0		05DEC08A		05DEC08A	2							
13R4C13S05	13R 5; On completion of 20% piles by number	0	0		13DEC08A		13DEC08A	2							
13R4C13S06	13R 6; On completion of 30% piles by number	0	0		18DEC08A		18DEC08A	2							

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
13R4C13S07	13R 7; On completion of 40% piles by number	0	0		23DEC08A		23DEC08A	2						
13R4C13S08	13R 8; On completion of 50% piles by number	0	0		02JAN09A		02JAN09A	2						
13R4C13S09	13R 9; On completion of 60% piles by number	0	0		09JAN09A		09JAN09A	2						
13R4C13S10	13R 10; On completion of 70% piles by number	0	0		16JAN09A		16JAN09A	2						
13R4C13S11	13R 11; On completion of 80% piles by number	0	0		21JAN09A		21JAN09A	2						
13R4C13S12	13R 12; On completion of 90% piles by number	0	0		17MAR10		17MAR10	2	1,384					
13R4C13S13	13R 13; On completion of all piling works	0	0		03MAY10		03MAY10	2	1,337					
13R4C13S14	13R 14; On completion of boulder traps	0	0		28NOV11		28NOV11	2	763					
13R4C13S15	13R 15; On completion of all work under this CC	0	0		28NOV11		28NOV11	2	763					
Construction of Outfall O-1														
Preliminary Works														
VO # 06; Transparent Hoarding at Outfall														
01R1D00106	Receive VO6 for transparent hoarding	0	0		16APR08A		16APR08A	1						
01R1D00108	Procurement for transparent hoarding	21	21	17APR08A	20MAY08A	17APR08A	20MAY08A	1						
01R1D00110	Erect hoarding	18	18	21APR08A	02JUL08A	21APR08A	02JUL08A	1						
VO #16; Chain Link Fence at O-1														
V01602	Issue VO16 for chain link fence	0	0		02JUL08A		02JUL08A	1						
V01612	Preparation works for chain link fence	1	1	03JUL08A	18AUG08A	03JUL08A	18AUG08A	1						
V01622	Erect chain link fence; 460m	38	38	19AUG08A	19SEP08A	19AUG08A	19SEP08A	1						
Temporary CLP Power Supply for TBM Operation														
01R1DCLP02	Application/approval for temp. CLP Power Supply	200	200	07MAR08A	01AUG08A	07MAR08A	01AUG08A	2						
01R1DCLP14	Appoint sub-contractor for design & build TX Rm	67	67	14JUL08A	07NOV08A	14JUL08A	07NOV08A	1						
01R1DCLP24	Design for transformer room	24	24	08NOV08A	11MAR09A	08NOV08A	11MAR09A	1						
01R1DCLP34	Construct transformer room	60	60	12MAR09A	14MAY09A	12MAR09A	14MAY09A	1						
01R1DCLP44	CLP inspection & defect rectification	14	14	15MAY09A	10JUN09	15MAY09A	10JUN09	1	-181					
01R1DCLP54	CLP cabling to TX room & commissioning	32	32	11JUN09	18JUL09	11JUN09	18JUL09	1	-181					
01R1DCLP74	CLPE cabling from TX room to 24mPD platform	18	18	19SEP09	12OCT09	19SEP09	12OCT09	1	-165					
VO#25; Revised Fencig Details at O-1 Next to GVT														
V025-02	Receive VO16 for revised details next to GVT	0	0		17SEP08A		17SEP08A	1						
V025-12	Preparation works	24	24	22JAN09A	07FEB09A	22JAN09A	07FEB09A	1						
V025-22	Erect proposed transparent hoarding	4	4	09FEB09A	02MAR09A	09FEB09A	02MAR09A	1						
V055-02	Receive VO#55 in lieu of VO#25	0	0		21JAN09A		21JAN09A	1						
01R1D00102	Obtain TTA (Ingress & egress) approval	0	0		18APR08A		18APR08A	2						
01R1D00103	Implement TTA for diverting footpath	1	1	19APR08A	19APR08A	19APR08A	19APR08A	1						
01R1D00104	Obtain excavation permit	0	0		29MAY08A		29MAY08A	2						
01R1D00112	Erect catch fencing	10	10	26MAY08A	02JUL08A	26MAY08A	02JUL08A	1						
01R1D00114	Site establishment	30	30	21APR08A	15JUL08A	21APR08A	15JUL08A	1						
01R1D00116	Site clearance	30	30	21APR08A	05SEP08A	21APR08A	05SEP08A	1						
01R1D00118	Install remote control CCTV as per ER 4.4.10	12	12	28OCT08A	10NOV08A	28OCT08A	10NOV08A	1						
16R1D00110	Tree inspection & report	7	7	13MAR08A	28MAR08A	13MAR08A	28MAR08A	1						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Form Temporary Access/Tree Felling															
Works Suspension Due to Obstruct. from Villagers															
WS002	Works suspension due to obstruct. frm villagers	24	24	19JUL08A	10AUG08A	19JUL08A	10AUG08A	2							
10R1D00202	Form temp. access road from +14mPD to +69mPD	158*	158*	19JUN08A	24DEC08A	19JUN08A	24DEC08A	1							
10R1D00AR04	Const. temp. steel decking over exist Outfall W	11	11	26AUG08A	06SEP08A	26AUG08A	06SEP08A	1							
10R1D00AR08	Form temp. access road from 14mPD to 28mPD	12	12	19JUN08A	18JUL08A	19JUN08A	18JUL08A	1							
10R1D00AR12	Preparation works for transplanting T160	53	53	11AUG08A	25OCT08A	11AUG08A	25OCT08A	1							
10R1D00AR42	Mobilize & set up crane for tree transplant	1	1	27OCT08A	27OCT08A	27OCT08A	27OCT08A	1							
10R1D00AR44	Crown pruning for T160	2	2	28OCT08A	29OCT08A	28OCT08A	29OCT08A	1							
10R1D00AR46	Cut root & uplift T160	1	1	30OCT08A	30OCT08A	30OCT08A	30OCT08A	1							
10R1D00AR54	Crown pruning/Cut root & uplift T142	10	10	21FEB09A	21FEB09A	21FEB09A	21FEB09A	1							
10R1D00AR56	Construct access road from +43 to +55mPD	30	30	31OCT08A	24DEC08A	31OCT08A	24DEC08A	1							
16R7D00202	Tree transplant at Outfall O-1	105	105	02JUN08A	06MAR09A	02JUN08A	06MAR09A	1							
16R7D00204	Tree transplant above +62mPD	11	11	31OCT08A	12NOV08A	31OCT08A	12NOV08A	1							
Form Temporary Launching Platform															
Slope Cut & Soil Nailing; +71mPD to +40mPD															
10R1D00030	+71 to +40mPD (rows A to P)	229*	229*	13NOV08A	22AUG09	13NOV08A	22AUG09	1	-184						
10R1D00031	Remove boulder/Cut slope for rows A to D	9	9	13NOV08A	06DEC08A	13NOV08A	06DEC08A	1							
10R1D00032	Erect scaffold & Drill/install/grout/P1at row C	12	12	02DEC08A	16DEC08A	02DEC08A	16DEC08A	1							
10R1D00033	Drill/install/grout rows B to C; 18 nos.	14	14	17DEC08A	06JAN09A	17DEC08A	06JAN09A	1							
10R1D00034	Drill/install/grout/testing for P2 at row D	8	8	30DEC08A	06JAN09A	30DEC08A	06JAN09A	2							
10R1D00035	Drill/install/grout D1 to D11	7	7	07JAN09A	16JAN09A	07JAN09A	16JAN09A	1							
10R1D00036	Cut slope for E1 to G20; soil 620m3	2	2	15JAN09A	20JAN09A	15JAN09A	20JAN09A	1							
10R1D00037	Drill/install/grout E1 to G20: 51 nos.	19	19	20JAN09A	11FEB09A	20JAN09A	11FEB09A	1							
10R1D00038	Construct nail heads/remove platform; rows B-G	10	10	02FEB09A	17FEB09A	02FEB09A	17FEB09A	1							
10R1D00039	Erosion mat, wire mesh & hydroseed; rows B-G	10	10	21FEB09A	24FEB09A	21FEB09A	24FEB09A	1							
10R1D00040	Cut slope for H1 to I25; soil 1819m3	12	12	02FEB09A	17FEB09A	02FEB09A	17FEB09A	1							
10R1D00041	Drill/install/grout H1 to I25; 47 nos.	13	13	18FEB09A	04MAR09A	18FEB09A	04MAR09A	1							
10R1D00042	Cut slope for J1 to M37; soil 5834m3	20	20	19FEB09A	13MAR09A	19FEB09A	13MAR09A	1							
10R1D00043	Erect working platform for rows J to M	14	14	28FEB09A	16MAR09A	28FEB09A	16MAR09A	1							
10R1D00044	Test nails for P3, P4, P5 & P10	12	12	05MAR09A	07APR09A	05MAR09A	07APR09A	1							
10R1D00045	Drill/install/grout J1 to M37; 134 nos.	20	20	12MAR09A	07APR09A	12MAR09A	07APR09A	1							
10R1D00047	Construct nail heads/remove platform; rows H-M	20	20	14MAR09A	18APR09A	14MAR09A	18APR09A	1							
10R1D00048	Erosion mat, wire mesh & hydroseed; rows H-M	6	6	29MAY09	04JUN09	29MAY09	04JUN09	1	-184						
10R1D00049	Excavate soil 5600m3 & boulder 229m3; Rows N to P	22	22	14MAR09A	18APR09A	14MAR09A	18APR09A	1							
10R1D00050	Erect working platform for rows N to P	10	10	20APR09A	24APR09A	20APR09A	24APR09A	1							
10R1D00051	Drill/install/grout N1 to P31; 111 nos.	20	20	23APR09A	13MAY09A	23APR09A	13MAY09A	1							
10R1D00053	Construct nail heads/remove platform; row N to P	14	14	14MAY09A	02JUN09	14MAY09A	02JUN09	1	-161						
10R1D00054	Erosion mat, wire mesh & hydroseed; rows N to P	6	6	03JUN09	09JUN09	03JUN09	09JUN09	1	-161						
Slope Cut & Soil Nailing; +40mPD to +24mPD															
10R1D0130	+40 to +24mPD (rows Q to X)	205*	205*	20APR09A	22DEC09	20APR09A	22DEC09	1	-219						

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ID	Activity Description	B04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Total Float	2008	2009	2010	2011	2012	2013
10R1DO131	Excavation; 40 to 30mPD; soil 8291m3/rock 2778m3	43	43	20APR09A	13AUG09	20APR09A	13AUG09	1	-219					
10R1DO132	Reinstate temp. access	30	30	21APR09A	27MAY09A	21APR09A	27MAY09A	1	-219					
10R1DO133	Erect working platform for rows Q to U	22	22	11MAY09A	17AUG09	11MAY09A	17AUG09	1	-219					
10R1DO134	Test nails for P6, P7, P8 & P11	12	12	21MAY09A	24AUG09	21MAY09A	24AUG09	1	-219					
10R1DO135	Drill/install/grout Q1 to U10; 99 nos.	13	13	12MAY09A	04SEP09	12MAY09A	04SEP09	1	-219					
10R1DO136	Excavation; 30 to 24mPD; soil 4197m3/rock 7592m3	95	95	27MAY09A	08OCT09	27MAY09A	08OCT09	1	-219					
10R1DO137	Drill/install/grout V1 to X14; 37 nos.	10	10	05SEP09	16SEP09	05SEP09	16SEP09	1	-219					
10R1DO138	Construct nail heads/remove platform; row V to X	17	17	02SEP09	21SEP09	02SEP09	21SEP09	1	-219					
10R1DO139	Erosion mat, wire mesh & hydroseed; rows V to X	10	10	22SEP09	05OCT09	22SEP09	05OCT09	1	-219					
TBM Launching Chamber														
10R1DO1305	Pipe pile roof support	9	9	18SEP09	28SEP09	18SEP09	28SEP09	1	-212					
10R1DO1310	Excavate/construct TBM launching chamber	63	63	09OCT09	22DEC09	09OCT09	22DEC09	1	-219					
10R1DO1315	Form launching chamber cradle	12	12	09DEC09	22DEC09	09DEC09	22DEC09	1	-219					
10R1DO1325	Ground treatment prior to TBM commence boring	4	4	23DEC09	29DEC09	23DEC09	29DEC09	1	-217					
Slope Cut & TBM Access Road; +24 to +14mPD														
10R1DO230	+24 to +14mPD	63*	63*	08JUN09	20AUG09	08JUN09	20AUG09	1	-181					
10R1DO240	Relocate sedimentation tank	0	0	06JUN09*	06JUN09*	06JUN09*	06JUN09*	1	-172					
10R1DO250	Form access for big breaker	12	12	08JUN09	20JUN09	08JUN09	20JUN09	1	-172					
10R1DO260	Mobilization of big breaker	0	0	20JUN09	20JUN09	20JUN09	20JUN09	1	-172					
10R1DO270	Form new TBM access +14mPD to +24mPD	14	14	22JUN09	08JUL09	22JUN09	08JUL09	1	-172					
10R1DO280	Divert access to new TBM access	0	0	08JUL09	08JUL09	08JUL09	08JUL09	1	-172					
10R1DO290	Demolish masonry & ret. wall at +14mPD	28	28	20JUL09	20AUG09	20JUL09	20AUG09	1	-181					
TBM Assembly Area at +24mPD														
10R1DO185	Construct temporary drainage	6	6	16DEC09	22DEC09	16DEC09	22DEC09	1	-219					
10R1DO195	Concrete slab	12	12	16DEC09	31DEC09	16DEC09	31DEC09	1	-219					
3AL1DO0314	Commence TBM initial assembly	0	0	02JAN10	02JAN10	02JAN10	02JAN10	1	-219					
Tower Crane														
3AL1DO2005	Foundation	8	8	21AUG09	29AUG09	21AUG09	29AUG09	1	-181					
3AL1DO2010	Erection	3	3	08SEP09	10SEP09	08SEP09	10SEP09	1	-157					
3AL1DO2015	Test & commissioning	1	1	11SEP09	11SEP09	11SEP09	11SEP09	1	-157					
3AL1DO2025	Removal of tower crane & reinstatement	12	12	11APR12	24APR12	11APR12	24APR12	1	-207					
TBM Platform														
3AL1DO2505	Pre-fabrication	40	40	18JUN09*	04AUG09	18JUN09*	04AUG09	1	-159					
3AL1DO2515	Foundation	12	12	31AUG09	12SEP09	31AUG09	12SEP09	1	-181					
3AL1DO2525	Erect steel framework	36	36	14SEP09	28OCT09	14SEP09	28OCT09	1	-181					
3AL1DO2535	Install platform	12	12	29OCT09	11NOV09	29OCT09	11NOV09	1	-181					
3AL1DO2545	ICE certification	3	3	12NOV09	14NOV09	12NOV09	14NOV09	1	-181					
Noise Enclosure														
3AL1DO3005	Pre-fabrication	42	42	22JUN09*	10AUG09	22JUN09*	10AUG09	1	-120					
3AL1DO3015	Foundation	12	12	23SEP09	08OCT09	23SEP09	08OCT09	1	-169					
3AL1DO3025	Erect steel framework	18	18	09OCT09	30OCT09	09OCT09	30OCT09	1	-169					
3AL1DO3035	Cladding	22	22	27JAN10	24FEB10	27JAN10	24FEB10	1	-195					
3AL1DO3045	ICE certification	3	3	25FEB10	27FEB10	25FEB10	27FEB10	1	-195					

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
3AL1FT0802	Apply to EPD for CNP for 24 hrs. tunnel work	12	12	11FEB10	27FEB10	11FEB10	27FEB10	1	-195						
3AL1FT0804	EPD process/approve CNP application	36	36	28FEB10	04APR10	28FEB10	04APR10	2	-237						
105 Ton Gantry Crane															
3AL1DO3505	Manufacture	99	99	29MAY09	22SEP09	29MAY09	22SEP09	1	-159						
3AL1DO3515	Shipping to Hong Kong	6	6	23SEP09	29SEP09	23SEP09	29SEP09	1	-159						
3AL1DO3525	Assembly	8	8	30SEP09	10OCT09	30SEP09	10OCT09	1	-159						
3AL1DO3535	Install rails	4	4	23OCT09	28OCT09	23OCT09	28OCT09	1	-169						
3AL1DO3545	Test & commission	3	3	29OCT09	31OCT09	29OCT09	31OCT09	1	-169						
3AL1DO3555	Receive initial segments and stock	6	6	02JAN10	08JAN10	02JAN10	08JAN10	1	-209						
Muck Hopper															
3AL1DO4005	Pre-fabrication	75	75	22JUN09*	17SEP09	22JUN09*	17SEP09	1	-83						
3AL1DO4015	Foundation	18	18	14SEP09	06OCT09	14SEP09	06OCT09	1	-97						
3AL1DO4025	Erect steelwork	18	18	12NOV09	02DEC09	12NOV09	02DEC09	1	-127						
3AL1DO4035	Erect hopper	18	18	03DEC09	23DEC09	03DEC09	23DEC09	1	-127						
3AL1DO4045	Install transfer conveyor	4	4	24DEC09	30DEC09	24DEC09	30DEC09	1	-127						
3AL1DO4055	M&E works	6	6	31DEC09	07JAN10	31DEC09	07JAN10	1	-127						
3AL1DO4065	Test & commissioning	3	3	08JAN10	11JAN10	08JAN10	11JAN10	1	-127						
Marti Conveyor															
3AL1DO4505	Engineering	50	50	29MAY09	27JUL09	29MAY09	27JUL09	1	-105						
3AL1DO4515	Pre-fabrication	60	60	28JUL09	07OCT09	28JUL09	07OCT09	1	-105						
3AL1DO4525	Delivery to Hong Kong	25	25	23SEP09	23OCT09	23SEP09	23OCT09	1	-105						
3AL1DO4535	Pre-assembly at Portion I	6	6	24OCT09	31OCT09	24OCT09	31OCT09	1	-105						
3AL1DO4545	Foundation	3	3	02JAN10	05JAN10	02JAN10	05JAN10	1	-155						
3AL1DO4555	Install belt conveyor stage 1	24	24	06JAN10	02FEB10	06JAN10	02FEB10	1	-155						
3AL1DO4565	Install transfer conveyor	1	1	03FEB10	03FEB10	03FEB10	03FEB10	1	-155						
3AL1DO4575	Install belt conveyor stage 2	6	6	27APR10	04MAY10	27APR10	04MAY10	1	-218						
3AL1DO4585	M&E works	2	2	05MAY10	06MAY10	05MAY10	06MAY10	1	-218						
3AL1DO4595	Test & commission	1	1	07MAY10	07MAY10	07MAY10	07MAY10	1	-218						
LV Station															
3AL1DO5005	Delivery & install containers 1/2/3	4	4	12SEP09	16SEP09	12SEP09	16SEP09	1	-157						
3AL1DO5015	M&E works	12	12	17SEP09	30SEP09	17SEP09	30SEP09	1	-157						
3AL1DO5025	Test & commission	12	12	13OCT09	27OCT09	13OCT09	27OCT09	1	-165						
Cooling Water System															
3AL1DO5505	Pre-fabrication	53	53	09JUL09	08SEP09	09JUL09	08SEP09	1	-129						
3AL1DO5515	Foundation	10	10	09SEP09	19SEP09	09SEP09	19SEP09	1	-129						
3AL1DO5525	Erect cooling system	12	12	21SEP09	06OCT09	21SEP09	06OCT09	1	-129						
3AL1DO5535	M&E works	4	4	07OCT09	10OCT09	07OCT09	10OCT09	1	-129						
3AL1DO5545	Test & commission	2	2	12OCT09	13OCT09	12OCT09	13OCT09	1	-129						
Grout System															
3AL1DO6005	Pre-fabrication	90	90	22JUN09*	07OCT09	22JUN09*	07OCT09	1	-134						
3AL1DO6015	Erect system	6	6	16NOV09	21NOV09	16NOV09	21NOV09	1	-166						
3AL1DO6025	M&E works	3	3	23NOV09	25NOV09	23NOV09	25NOV09	1	-166						
3AL1DO6035	Test & commission	1	1	26NOV09	26NOV09	26NOV09	26NOV09	1	-166						

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Pea Gravel Plant															
3AL1DO7505	Pre-fabrication	36	36	22JUN09	03AUG09	22JUN09	03AUG09	1	-82						
3AL1DO7515	Install hopper	4	4	06OCT09	09OCT09	06OCT09	09OCT09	1	-134						
3AL1DO7525	Erect conveyor	2	2	10OCT09	12OCT09	10OCT09	12OCT09	1	-134						
3AL1DO7535	M&E works	4	4	13OCT09	16OCT09	13OCT09	16OCT09	1	-134						
3AL1DO7545	Test & commission	2	2	17OCT09	19OCT09	17OCT09	19OCT09	1	-134						
3AL1DO7555	Install conveyor connecting to TBM	4	4	27APR10	30APR10	27APR10	30APR10	1	-213						
Ventilation System															
3AL1DO8005	Pre-fabrication	72	72	29MAY09	21AUG09	29MAY09	21AUG09	1	-14						
3AL1DO8015	Erect system	2	2	27APR10	28APR10	27APR10	28APR10	1	-213						
3AL1DO8025	M&E works	1	1	29APR10	29APR10	29APR10	29APR10	1	-213						
3AL1DO8035	Test & commission	1	1	30APR10	30APR10	30APR10	30APR10	1	-213						
Miscellaneous															
3AL1DO8502	Install transformer & harmonic filter	2	2	27APR10	28APR10	27APR10	28APR10	1	-218						
3AL1DO8512	Remove invert segments; 19 nos.	2	2	27APR10	28APR10	27APR10	28APR10	1	-218						
3AL1DO8522	Make good slab	3	3	28APR10	30APR10	28APR10	30APR10	1	-218						
3AL1DO8532	Install rail switch	1	1	03MAY10	03MAY10	03MAY10	03MAY10	1	-214						
VO # 49 & 53; Additional Drainage & Stairway															
VO-04910	Received Variation orders	0	0		26FEB09A		26FEB09A	1							
VO-04920	Preparation works for varied works	14	14	27FEB09A	14MAR09A	27FEB09A	14MAR09A	1							
VO-04930	Construct u-channel & stairway; +71mPD to +55mPD	60	60	16MAR09A	29MAY09	16MAR09A	29MAY09	1	-179						
VO-04940	Construct u-channel & stairway; +55mPD to +47mPD	27	27	05JUN09	07JUL09	05JUN09	07JUL09	1	-184						
VO-04950	Construct u-channel & stairway; +47mPD to +41mPD	40	40	08JUL09	22AUG09	08JUL09	22AUG09	1	-184						
VO-04960	Construct u-channel & stairway; +41 to +24 mPD	60	60	06OCT09	15DEC09	06OCT09	15DEC09	1	-219						
VO #88; Revised Slope Profile with Add. Supports															
VO-088000	Received VO #088	0	0		27MAY09A		27MAY09A	1							
VO-088005	Excavate from 38.5mPD to 36.5mPD	6	6	29MAY09	04JUN09	29MAY09	04JUN09	1	-218						
VO-088010	Procure and prepare materials	9	9	29MAY09	08JUN09	29MAY09	08JUN09	1	-219						
VO-088015	SOR confirm soil nails location	2	2	05JUN09	06JUN09	05JUN09	06JUN09	1	-218						
VO-088020	Drill/install/grout soil nails; rows AA-AB	7	7	09JUN09	16JUN09	09JUN09	16JUN09	1	-219						
VO-088025	Install wire mesh & shorcrete 150mm	3	3	17JUN09	19JUN09	17JUN09	19JUN09	1	-219						
VO-088030	Excavate from +36.5 mPD to 34.5mPD	6	6	20JUN09	26JUN09	20JUN09	26JUN09	1	-219						
VO-088035	SOR confirm soil nails location	2	2	27JUN09	29JUN09	27JUN09	29JUN09	1	-219						
VO-088040	Drill/install/grout soil nails; rows AC-AD	7	7	30JUN09	08JUL09	30JUN09	08JUL09	1	-219						
VO-088045	Install wire mesh & shorcrete 150mm	3	3	09JUL09	11JUL09	09JUL09	11JUL09	1	-219						
VO-088050	Excavate from +34.5 mPD to 32.5mPD	6	6	13JUL09	18JUL09	13JUL09	18JUL09	1	-219						
VO-088055	SOR confirm soil nails location	2	2	20JUL09	21JUL09	20JUL09	21JUL09	1	-219						
VO-088060	Drill/install/grout soil nails; rows AE-AF	7	7	22JUL09	29JUL09	22JUL09	29JUL09	1	-219						
VO-088065	Install wire mesh & shorcrete 150mm	3	3	30JUL09	01AUG09	30JUL09	01AUG09	1	-219						
VO-088070	Excavate from +34.5 mPD to 32.5mPD	6	6	03AUG09	08AUG09	03AUG09	08AUG09	1	-219						
VO-088075	SOR confirm soil nails location	2	2	10AUG09	11AUG09	10AUG09	11AUG09	1	-219						
VO-088080	Drill/install/grout soil nails; row AG	5	5	12AUG09	17AUG09	12AUG09	17AUG09	1	-219						
VO-088085	Install wire mesh & shorcrete 150mm	3	3	18AUG09	20AUG09	18AUG09	20AUG09	1	-219						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Instruction from SOR															
SORI-10	Suspension of rock drilling & breaking	1	1	20JUN09*	20JUN09	20JUN09*	20JUN09	1	-219						
SORI-20	Erection of noise barriers	3	3	22JUN09	24JUN09	22JUN09	24JUN09	1	-219						
Construct Spiral Ramp & Associ. Vehicular Access															
Spiral Ramp															
10R1DO0402	Install 273mm dia. temp. pipe piles; 40 nos.	12	12	08MAY10	22MAY10	08MAY10	22MAY10	1	-93						
10R1DO0404	Soil excavation & install walling & tie backs	24	24	24MAY10	21JUN10	24MAY10	21JUN10	1	-93						
10R1DO0406	Rock excavation for spiral ramp; 4629m3	70	70	22JUN10	11SEP10	22JUN10	11SEP10	1	-93						
10R1DO0414	Construct base of spiral ramp; Outfall O-1	12	12	13SEP10	27SEP10	13SEP10	27SEP10	1	-93						
10R1DO0416	Cast spiral ramp up to +6.73mPD	15	15	28SEP10	15OCT10	28SEP10	15OCT10	1	-93						
10R1DO0418	Cast spiral ramp up to +11.58mPD	15	15	18OCT10	03NOV10	18OCT10	03NOV10	1	-93						
10R1DO0420	Cast spiral ramp up to +16.00mPD	15	15	04NOV10	20NOV10	04NOV10	20NOV10	1	-93						
10R1DO0422	Cast spiral ramp up to +20.00mPD	15	15	22NOV10	08DEC10	22NOV10	08DEC10	1	-93						
10R1DO0424	Cast spiral ramp up to +24.23mPD	15	15	09DEC10	28DEC10	09DEC10	28DEC10	1	-93						
10R1DO0425	Backfill spiral ramp; 1700m3	4	4	29DEC10	03JAN11	29DEC10	03JAN11	1	-93						
10R1DO0426	Construct spiral ramp top; Outfall O-1	20	20	04JAN11	26JAN11	04JAN11	26JAN11	1	-93						
10R1DO0428	Construct vehicular access bet. tunnel & s. ramp	10	10	12JUL11	22JUL11	12JUL11	22JUL11	1	-2						
10R1DO0430	Commission of Spiral Ramp	6	6	27JAN11	02FEB11	27JAN11	02FEB11	1	-93						
Vehicular Access															
10R1DO0407	Install 40 nos. roof piles # 375mm c/c	24	24	11OCT10	08NOV10	02NOV10	29NOV10	1	-128						
10R1DO0408	Excavation for vehicular access underneath CPR	70	70	09NOV10	01FEB11	30NOV10	25FEB11	1	-128						
10R1DO0410	Construct base for vehicular access	12	12	02FEB11	18FEB11	26FEB11	11MAR11	1	-128						
10R1DO0412	Construct wall & roof for vehicular access	24	24	19FEB11	18MAR11	12MAR11	09APR11	1	-128						
Lower Part Box Culvert/Open Channel By Mining															
10R1DO0502	Site possession of Portion E-650d of DOC	0	0	08OCT09		08OCT09		2	-453						
10R1DO0504	Divert exist. outfall "W" under CPR arch bridge	36	36	09NOV09	19DEC09	30NOV09	13JAN10	1	-395						
10R1DO0506	Remove rock armour & form platform @+2.3mPD	36	36	21DEC09	03FEB10	14JAN10	27FEB10	1	-395						
10R1DO0508	Install temp. pile for pipe roofing	96	96	04FEB10	05JUN10	01MAR10	28JUN10	1	-395						
10R1DO0510	Excavate for box-culvert; 2 cells	44	44	07JUN10	29JUL10	19JUN10	19AUG10	1	-395						
10R1DO0512	Construct base slabs of box culvert; 2 cells	20	20	30JUL10	21AUG10	20AUG10	11SEP10	1	-395						
10R1DO0514	Construct wall & roof of box culvert; 2 cells	40	40	23AUG10	09OCT10	13SEP10	01NOV10	1	-395						
10R1DO0516	Excavate for box-culvert; 2 cells	44	44	11OCT10	01DEC10	02NOV10	22DEC10	1	-395						
10R1DO0518	Construct base slabs of box culvert; 2 cells	20	20	02DEC10	24DEC10	23DEC10	18JAN11	1	-395						
10R1DO0520	Construct wall & roof of box culvert; 2 cells	40	40	28DEC10	16FEB11	19JAN11	09MAR11	1	-395						
10R1DO0522	Excavate for open channel	24	24	17FEB11	16MAR11	10MAR11	07APR11	1	-395						
10R1DO0526	Construct open channel at 2.3 mPD	24	24	17MAR11	14APR11	08APR11	09MAY11	1	-395						
10R1DO0528	Reinstate existing outfall "W"	6	6	08APR11	14APR11	03MAY11	09MAY11	1	-395						
Construct Portal Head & Associated Structures															
10R1DO0602	Excavate tapered open channel/ upper cascade	24	24	12JUL11	08AUG11	12JUL11	08AUG11	1	-219						
10R1DO0604	Construct tapered open channel & upper cascade	48	48	09AUG11	06OCT11	09AUG11	06OCT11	1	-131						

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ID	Activity Description	D04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013	
10R1DO0606	Dismantle & removal of tower crane	12	12	17NOV12	30NOV12	28DEC12	11JAN13	1	-395							
3AL1DO0602	Dismantle/remove TBM backup system	24	24	13JUN11	11JUL11	13JUN11	11JUL11	1	-219							
3AL1DO0606	Construct portal head wall	24	24	09AUG11	05SEP11	09AUG11	05SEP11	1	-131							
Cascade & Upper Part Box Culvert by Mining																
Upper Cascade																
10R1DO0704	Drive sheet piles	18	18	12JUL11	01AUG11	12JUL11	01AUG11	1	-219							
10R1DO0706	Excavate & temp. support to services	60	60	02AUG11	13OCT11	02AUG11	13OCT11	1	-219							
10R1DO0708	Construct base slab	24	24	14OCT11	10NOV11	14OCT11	10NOV11	1	-219							
10R1DO0710	Construct side walls	18	18	11NOV11	01DEC11	11NOV11	01DEC11	1	-219							
10R1DO0712	Construct roof	24	24	02DEC11	03JAN12	02DEC11	03JAN12	1	-219							
10R1DO0714	Construct upstand	12	12	04JAN12	17JAN12	04JAN12	17JAN12	1	-219							
10R1DO0716	Backfill	6	6	16JAN12	21JAN12	16JAN12	21JAN12	1	-219							
10R1DO0730	Excavate for lower cascade construction	13	13	26JAN12	09FEB12	26JAN12	09FEB12	1	-219							
10R1DO0732	Construct lower cascade	48	48	10FEB12	10APR12	10FEB12	10APR12	1	-219							
10R1DO0734	Construct, baffle, railing etc.	48	48	10FEB12	10APR12	10FEB12	10APR12	1	-207							
Seabed Protection Works																
Preliminary Works for Outfall Basin Construction																
VO061-002	Receive VO # 061	0	0		30JUN09*		30JUN09*	1	-395							
VO061-004	Appoint Independent Hydrographic Surveyor	60	60	02JUL09	09SEP09	02JUL09	09SEP09	1	-395							
VO061-006	Carry out sounding survey	6	6	10SEP09	16SEP09	08OCT09	14OCT09	1	-395							
VO061-008	Prepare/submit drwgs./report of sounding survey	6	6	17SEP09	23SEP09	15OCT09	21OCT09	1	-395							
VO061-010	SOR approves drwgs./report of sounding survey	6	6	24SEP09	30SEP09	22OCT09	29OCT09	1	-395							
VO061-012	SOR issue Supplm. Environmental Review Report	30	30	02JUL09	05AUG09	02JUL09	05AUG09	1	-59							
VO061-014	Apply for Variation Environmental Permit (VEP)	6	6	05AUG09	12AUG09	05AUG09	12AUG09	1	-59							
VO061-016	EPD review/issue VEP	30	30	13AUG09	16SEP09	13AUG09	16SEP09	1	-59							
VO061-018	Prepare/submit Revised EM&A Manual by ET	30	30	17SEP09	23OCT09	17SEP09	23OCT09	1	-59							
VO061-020	IEC endorse Revised EM&A Manual	12	12	24OCT09	07NOV09	24OCT09	07NOV09	1	-59							
VO061-022	EPD acknowledge Revised EM&A Manual	6	6	09NOV09	14NOV09	09NOV09	14NOV09	1	-59							
VO061-024	Carry out baseline monitoring	28	28	16NOV09	17DEC09	16NOV09	17DEC09	1	-59							
VO061-026	Prepare/submit baseline report by ET	12	12	18DEC09	04JAN10	18DEC09	04JAN10	1	-59							
VO061-028	IEC endorse baseline report	12	12	05JAN10	18JAN10	05JAN10	18JAN10	1	-59							
VO061-030	EPD approve baseline report	30	30	19JAN10	25FEB10	19JAN10	25FEB10	1	-59							
VO061-032	Appoint sub-contractor for varied works	60	60	02JUL09	09SEP09	02JUL09	09SEP09	1	-377							
VO061-034	Prepare/submit method statement	30	30	02OCT09	07NOV09	10SEP09	16OCT09	1	-395							
VO061-036	IEC endorse method statement	12	12	09NOV09	21NOV09	17OCT09	31OCT09	1	-7							
VO061-038	SOR approve method statement	24	24	23NOV09	19DEC09	02NOV09	28NOV09	1	-7							
VO061-040	Apply for marine notice	6	6	09NOV09	14NOV09	30NOV09	05DEC09	1	-395							
VO061-042	Review/issue marine notice by Marine Department	30	30	16NOV09	19DEC09	07DEC09	13JAN10	1	-395							
VO061-044	Apply for dumping permit	6	6	09NOV09	14NOV09	30NOV09	05DEC09	1	-37							
VO061-046	Review/issue dumping permit by EPD	60	60	16NOV09	27JAN10	07DEC09	20FEB10	1	-37							
VO061-048	Commence works for basin construction	0	0	15APR11		11MAY11		1	-395							
VO #061; Outfall Basin Construction																
VO61-050	Excavation in rock armour to +2.3mPD	57	36	15APR11	25JUN11	11MAY11	22JUN11	1	-395							

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
VO61-055	Dredge in rock armour to -3.75mPD	51	36	27JUN11	25AUG11	23JUN11	04AUG11	1	-395						
VO61-060	Place grade 400 rockfill & levelling layer	18	12	26AUG11	16SEP11	05AUG11	18AUG11	1	-395						
VO61-065	Form seawall type 2(W)	15	15	17SEP11	06OCT11	12AUG11	29AUG11	1	-395						
VO61-070	Construct detail Y	4	4	07OCT11	11OCT11	30AUG11	02SEP11	1	-395						
VO61-075	Construct mass concrete	6	6	12OCT11	18OCT11	03SEP11	09SEP11	1	-395						
VO61-080	Form seawall type 1	23	23	19OCT11	14NOV11	10SEP11	10OCT11	1	-395						
VO61-085	Construct mass concrete	12	12	15NOV11	28NOV11	11OCT11	24OCT11	1	-395						
VO61-090	Form seawall type 2 (E)	15	15	29NOV11	15DEC11	25OCT11	10NOV11	1	-395						
VO61-095	Construct detail X	4	4	16DEC11	20DEC11	11NOV11	15NOV11	1	-395						
VO61-100	Construct mass concrete	6	6	21DEC11	30DEC11	16NOV11	22NOV11	1	-395						
VO61-105	Construct coping	14	14	02JAN12	17JAN12	23NOV11	08DEC11	1	-250						
VO61-110	Place infill blocks M1 & M4	18	18	18JAN12	10FEB12	09DEC11	03JAN12	1	-250						
VO61-115	Dredge in sea bed to -3.75mPD for seawall (W)	10	12	19OCT11	29OCT11	10SEP11	24SEP11	1	-345						
VO61-120	Place grade 400 rockfill & levelling layer	12	12	31OCT11	12NOV11	12NOV11	11OCT11	1	-251						
VO61-125	Form seawall type 5, 2B, 4 & 1A (W)	51	51	14NOV11	16JAN12	12OCT11	09DEC11	1	-251						
VO61-130	Backfill sea walls west & north (half)	36	36	17JAN12	01MAR12	10DEC11	28JAN12	1	-251						
VO61-135	Place type 2 armour	10	10	02MAR12	13MAR12	30JAN12	09FEB12	1	-251						
VO61-140	Dredge in sea bed to -3.75mPD for seawall (E)	9	24	02JAN12	11JAN12	23NOV11	20DEC11	1	-395						
VO61-145	Place grade 400 rockfill & levelling layer	12	12	12JAN12	28JAN12	21DEC11	07JAN12	1	-395						
VO61-150	Form seawall type 6, 3 & 2A (E)	38	40	30JAN12	13MAR12	09JAN12	27FEB12	1	-395						
VO61-155	Backfill sea walls east & north (half)	36	36	14MAR12	30APR12	28FEB12	13APR12	1	-287						
VO61-160	Place type 2 armour	10	10	02MAY12	12MAY12	14APR12	25APR12	1	-287						
VO61-165	Dredge in sea bed for stepped blocks	15	50	14MAR12	30MAR12	28FEB12	02MAY12	1	-395						
VO61-170	Place levelling layer	175	224	31MAR12	02NOV12	13MAR12	11DEC12	1	-395						
VO61-175	Place stepped blocks	175	224	19APR12	16NOV12	27MAR12	27DEC12	1	-395						
VO61-180	Place type 2 armour to reinstate exist. seawall	24	24	14MAY12	09JUN12	26APR12	25MAY12	1	-287						
VO61-185	Form ground beam (W)	12	12	11FEB12	24FEB12	04JAN12	17JAN12	1	-250						
VO61-190	Form ground beam (E)	12	12	25FEB12	09MAR12	18JAN12	03FEB12	1	-244						
VO61-195	Form invert slab (W)	12	12	25FEB12	09MAR12	18JAN12	03FEB12	1	-250						
VO61-200	Form invert slab (E)	12	12	10MAR12	23MAR12	04FEB12	17FEB12	1	-244						
VO61-205	Form end wall (W)	18	18	10MAR12	30MAR12	04FEB12	24FEB12	1	-250						
VO61-210	Form end wall (E)	18	18	31MAR12	25APR12	25FEB12	16MAR12	1	-250						
VO61-215	Reinstate rock armour	24	24	11JUN12	10JUL12	26MAY12	22JUN12	1	-287						
VO61-220	Complete basin	0	0		16NOV12		27DEC12	1	-395						
Remaining Works Prior to Handover															
10R1DO0904	Finishing & reinstatement works; Portion D	36	36	19OCT12	30NOV12	28NOV12	11JAN13	1	-395						
10R1DO0906	Pre-handover inspections and remedial works	30	30	03NOV12	07DEC12	12DEC12	18JAN13	1	-395						
10R1DO0908	Contractor serve notice for Works completion	7	7	08DEC12	14DEC12	19JAN13	25JAN13	2	0						
10R1DO0910	SO issues completion certificate	21	21	15DEC12	04JAN13	26JAN13	15FEB13	2	0						
16R7DO0902	Landscaping works at Portion D	120	120	11JUL12	30NOV12	18AUG12	11JAN13	1	-369						
16R7DO0904	Establishment Works at Portion D	365	365	01DEC12	30NOV13	12JAN13	11JAN14	2	-455						
3DL1DO0902	Install flow measurement devices at Outfall O-1	12	12	30MAR12	17APR12	30MAR12	17APR12	1	-219						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
3DL1DO0903	T & C for flow measurement system	28	28	02APR12	10MAY12	02APR12	10MAY12	1	-219						
3DL1DO0904	Maintain & monitor flow monitoring	365	365	11MAY12	10MAY13	11MAY12	10MAY13	2	0						
Schedule of Milestones for Cost Centre No. 10R															
10R1DO1002	10R 1; On completion of 20% excavation works	0	0		09APR09A		09APR09A	2							
10R1DO1004	10R 2; On completion of 40% excavation works	0	0		13AUG09		13AUG09	2	1,600						
10R1DO1006	10R 3; On completion of 60% excavation works	0	0		08OCT09		08OCT09	2	1,544						
10R1DO1008	10R 4; On completion of 80% excavation works	0	0		11SEP10		11SEP10	2	1,205						
10R1DO1010	10R 5; On completion all excavation works	0	0		09FEB12		09FEB12	2	690						
10R1DO1012	10R 6; On completion of cascade structure	0	0		10APR12		10APR12	2	629						
10R1DO1014	10R 7; On completion of spiral ramp to +16mPD	0	0		20NOV10		20NOV10	2	1,136						
10R1DO1016	10R 8; On completion of spiral access ramp	0	0		02FEB11		02FEB11	2	1,062						
10R1DO1018	10R 9; On completion box-culvert & open channel	0	0		17JAN12		03JAN12	2	713						
10R1DO1020	10R 10; On completion of seabed protection wks	0	0		16NOV12		27DEC12	2	409						
10R1DO1022	10R 11; On completion of all works under this CC	0	0		07DEC12		18JAN13	2	388						
Schedule of Milestones for Cost Centre No. 14R															
14R5DO1102	14R 1; On complet. of remove exist. rock armour	0	0		25JUN11		22JUN11	2	919						
14R5DO1104	14R 2; On complet. of 50% soil nailing by number	0	0		07APR09A		07APR09A	2							
14R5DO1106	14R 3; On completion all soiling works	0	0		16SEP09		16SEP09	2	1,566						
14R5DO1108	14R 4; On completion of all works under this CC	0	0		25JUN11		22JUN11	2	919						
Drainage Improvement Works at Portion G															
Preliminary Works															
01R6GG0102	SO consent Drainage Impact Assessment Report.	0	0		24NOV09		24NOV09	1	181						
01R6GG0112	Obtain TTA (Ingress & egress) approval	0	0		25NOV09		25NOV09	2	0						
01R6GG0114	Possession of Portion G -700d of DOC	0	0	26NOV09		26NOV09		2	0						
01R6GG0116	Site clearance/Site Establishment	30	30	26NOV09	02JAN10	26NOV09	02JAN10	1	165						
3DL6GG0104	Obtain approval for Geotechnical Instrumentation	0	0		25NOV09		25NOV09	2	0						
3DL6GG0106	Installation of Geotechnical Instrumentation	12	12	26NOV09	09DEC09	26NOV09	09DEC09	1	0						
3DL6GG0108	Monitor/report Geotechnical Instrumentation	904	904	10DEC09	29DEC12	10DEC09	29DEC12	1	0						
Piling Works															
15R6GG0200	Obtain SO's consent for temp. works design	0	0		17OCT09		17OCT09	1	209						
15R6GG0202	Mobilization & set up for temp. platform	3	3	10DEC09	12DEC09	10DEC09	12DEC09	1	165						
15R6GG0204	Construct steel working platform for H-piling	110	110	14DEC09	03MAY10	14DEC09	03MAY10	1	165						
15R6GG0206	Mobilization & set up for H-piling; Wall 1	3	3	04MAY10	06MAY10	04MAY10	06MAY10	1	165						
15R6GG0208	52 nos. 600mm dia. H-piles; Wall 1 @1.5 nr/day	35	35	07MAY10	18JUN10	07MAY10	18JUN10	1	165						
15R6GG0210	Excavate & construct skin wall 1 at Portion G	35	35	19JUN10	30JUL10	19JUN10	30JUL10	1	165						
15R6GG0212	Mobilization & set up for H-piling; Wall 2	3	3	19JUN10	22JUN10	19JUN10	22JUN10	1	165						
15R6GG0214	40 nos. 600mm dia. H-piles; Wall 2 @1.5 nr/day	27	27	23JUN10	24JUL10	23JUN10	24JUL10	1	165						
15R6GG0216	Excavate & construct skin wall 2 at Portion G	27	27	26JUL10	25AUG10	26JUL10	25AUG10	1	165						

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ID	Activity Description	AD04 Dur	WP3D Dur	AD04 Start	AD04 Finish	WP3D Start	WP3D Finish	Cal ID	Total Float	2008	2009	2010	2011	2012	2013
Drainage Improvement Works															
15R6GG0301	Obtain approval of ELS design package incl MS	0	0		02NOV09		02NOV09	2	284						
15R6GG0302	Install ELS & construct shaft for pipe jacking	90	90	04JAN10	26APR10	04JAN10	26APR10	1	180						
15R6GG0304	Construct 1.5m dia. drainage by pipe jacking	85	85	27APR10	07AUG10	27APR10	07AUG10	1	180						
15R6GG0306	Construct 1.5m dia. drainage by open trenching	24	24	01NOV10*	27NOV10	01NOV10*	27NOV10	1	111						
15R6GG0308	Construct .75m & 1.5m U and Stepped Channel	12	12	29NOV10	11DEC10	29NOV10	11DEC10	1	111						
15R6GG0310	Construct 3 nos. manhole & 2 nos. catchpit	35	35	13DEC10	25JAN11	13DEC10	25JAN11	1	111						
Remaining Works Prior to Handover to Client															
15R6GG0312	Reinstate carriageway & footway	24	24	26JAN11	25FEB11	26JAN11	25FEB11	1	111						
15R6GG0402	Pre-handover inspections and remedial works	12	12	26FEB11	11MAR11	26FEB11	11MAR11	1	111						
15R6GG0404	Contractor serve notice for Works completion	7	7	12MAR11	18MAR11	12MAR11	18MAR11	2	997						
15R6GG0408	SO issues completion certificate	21	21	19MAR11	08APR11	19MAR11	08APR11	2	997						
Schedule of Milestones for Cost Centre No. 15R															
15R6GG0502	15R 1; On completion of all temp. works	0	0		26APR10		26APR10	2	1,344						
15R6GG0504	15R 2; On completion of 25% of pipejacking	0	0		06MAY10		06MAY10	2	1,334						
15R6GG0506	15R 3; On completion of 50% of pipejacking	0	0		14MAY10		14MAY10	2	1,326						
15R6GG0508	15R 4; On completion of 75% of pipejacking	0	0		25MAY10		25MAY10	2	1,315						
15R6GG0510	15R 5; On completion of all pipejacking	0	0		07AUG10		07AUG10	2	1,241						
15R6GG0512	15R 6; On completion of all wks under this CC	0	0		11MAR11		11MAR11	2	1,025						

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