

## **Appendix 6.4**

### Calculation of Sediment Loss Rate

**Without Mitigation Measures**

Activities	Production Rate	Bulk Density	Fine Content	Loss Rate	Release Rate	Mitigation	Duration per Event	Cycle	Working Hours	Duration	Total Loss Rate per Event	Daily Loss Rate
	m3/event/day	kg/m3			kg/m3		min	Event/day	hr/day	Day/Month	kg/s	kg/day
<b>CKR</b>												
Dredging (Dry season)	1500				25	0%	720	1	12	25	0.87	37500
Dredging (Wet season)	1500				25	0%	720	1	12	25	0.87	37500
<b>T2</b>												
Dredging	8000				20	75%	720	1	12	25	0.93	40000
Filling - Public Fill	2000	1600	20%	5%	16	75%	720	1	12	25	0.19	8000

**Tier 1 Mitigation Measures (With Silt Curtain)**

Activities	Production Rate	Bulk Density	Fine Content	Loss Rate	Release Rate	Mitigation	Duration per Event	Cycle	Working Hours	Duration	Total Loss Rate per Event	Daily Loss Rate
	m3/event/day	kg/m3			kg/m3		min	Event/day	hr/day	Day/Month	kg/s	kg/day
<b>CKR</b>												
Dredging (Dry season)	1500				25	80%	720	1	12	25	0.17	7500
Dredging (Wet season)	1500				25	80%	720	1	12	25	0.17	7500
<b>T2</b>												
Dredging	8000				20	75%	720	1	12	25	0.93	40000
Filling - Public Fill	2000	1600	20%	5%	16	75%	720	1	12	25	0.19	8000

**Tier 2 Mitigation Measures (With Silt Curtain and 50% reduction of Dredging Rate during Wet Season )**

Activities	Production Rate	Bulk Density	Fine Content	Loss Rate	Release Rate	Mitigation	Duration per Event	Cycle	Working Hours	Duration	Total Loss Rate per Event	Daily Loss Rate
	m3/event/day	kg/m3			kg/m3		min	Event/day	hr/day	Day/Month	kg/s	kg/day
<b>CKR</b>												
Dredging (Dry season)	1500				25	80%	720	1	12	25	0.17	7500
Dredging (Wet season)	750				25	80%	720	1	12	25	0.09	3750
<b>T2</b>												
Dredging	8000				20	75%	720	1	12	25	0.93	40000
Filling - Public Fill	2000	1600	20%	5%	16	75%	720	1	12	25	0.19	8000