## **APPENDIX 3A:**

**Details of Construction Phase Air Quality Assessment** 

Daytime Dust Emissions from San Wai STW Works	Area *	
1 Truck unloading		
2-way truck flow (veh/hr)		estimated
Truck volume (Mg)		calculated
Total material handling (Mg/hr)		assumed
TSP emission rate (kg/hr)	2.00E-01	calculated based on AP-42 Table 11.9-4
2 Bulldozing  Moisture content (%)	7.0	mann unling from AD 42 Table 44 0.2 for buildangs
Silt content (%)		mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-2
3 Truck loading		
2-way truck flow (veh/hr)		estimated
Truck volume (Mg) Total material handling (Mg/hr)		estimated calculated
TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-4
TOT CHROSIOTITATE (NG/TII)	0.002.00	Calculated based 011741 42 Table 11.5 4
4 Vehicle traffic on unpaved roads		
Silt content (%)	4.3	mean value from AP-42 Table 11.9-3 for haul truck
Moisture content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Average weight of vehicle (Mg)		estimated
2-way truck flow (veh/hr)		estimated
Average one-way travel distance within site (km)		estimated AP 40 0 45 40 0 0
TSP emission rate (kg/hr)	8.17E+00	calculated based on AP-42 Section 13.2.2
5 Cite evenion		
5 Site erosion	2.5-	AD 40 Table 44.0.4
TSP emission rate (Mg/hectare/yr)		AP-42 Table 11.9-4
Total site area (sq.m)		estimated calculated
TSP emission rate (kg/hr)	5.18E-01	calculate0
Total daytime TSP emissions from San Wai STW		
works area (unmitigated)	14 20	kg/hr
or	7.44E-05	alea mie
Nighttime Dust Emissions from San Wai STW Work	(s Area	
1 Site erosion		
TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4
Total site area (sq.m)		estimated
TSP emission rate (kg/hr)		calculated
Total nighttime TSP emissions from San Wai		
STW works area	0.52	kg/hr
or	2.70E-06	g/sq.m/s
Daytime Dust Emissions from DBL Works Area *		
Daytime Dust Emissions from DBL Works Area *		
1 Truck unloading		
1 Truck unloading 2-way truck flow (veh/hr)		estimated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg)	10	calculated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	10 90	calculated assumed
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg)	10 90	calculated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)	10 90	calculated assumed
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing	10 90 9.00E-02	calculated assumed calculated based on AP-42 Table 11.9-4
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%)	10 90 9.00E-02 7.9	calculated assumed calculated based on AP-42 Table 11.9-4 mean value from AP-42 Table 11.9-3 for bulldozer
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%)	10 90 9.00E-02 7.9 6.9	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%)	10 90 9.00E-02 7.9 6.9	calculated assumed calculated based on AP-42 Table 11.9-4 mean value from AP-42 Table 11.9-3 for bulldozer
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)	10 90 9.00E-02 7.9 6.9	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)	10 90 9.00E-02 7.9 6.9 1.80E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading	7.9 6.9 1.80E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	10 90 9.00E-02 7.9 6.9 1.80E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg)	10 90 9.00E-02 7.9 6.9 1.80E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)	10 90 9.00E-02 7.9 6.9 1.80E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for buildozer mean value from AP-42 Table 11.9-3 for buildozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)	10 90 9.00E-02 7.9 6.9 1.80E+00 18 10 90 1.62E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%)	10 90 9.00E-02 7.9 6.9 1.80E+00 18 10 90 1.62E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for buildozer mean value from AP-42 Table 11.9-3 for buildozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for buildozer mean value from AP-42 Table 11.9-3 for buildozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18 0.25	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18 0.25	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18 0.25	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for buildozer mean value from AP-42 Table 11.9-3 for buildozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18 0.25 6.13E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for buildozer mean value from AP-42 Table 11.9-3 for buildozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18 0.25 6.13E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for buildozer mean value from AP-42 Table 11.9-3 for buildozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18 0.25 6.13E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18 0.25 6.13E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for buildozer mean value from AP-42 Table 11.9-3 for buildozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) TSP emission rate (kg/hr)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18 0.25 6.13E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for buildozer mean value from AP-42 Table 11.9-3 for buildozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated
1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m)	10 90 9.00E-02 7.9 6.9 1.80E+00 1.62E+00 4.3 2.4 24 18 0.25 6.13E+00 0.85 147875 1.43E+00	calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for buildozer mean value from AP-42 Table 11.9-3 for buildozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated

Nighttime Dust Emissions from DBL Works Area		
1 Site erosion		
TSP emission rate (Mg/hectare/yr)		AP-42 Table 11.9-4
Total site area (sq.m)		estimated
TSP emission rate (kg/hr)	1.43E+00	calculated
Total nighttime TSP emissions from DBL works		
area	1 //3	kg/hr
or		
OI OI	2.70L-00	9/34/11/3
Daytime Dust Emissions from HSKNDA Roads We	orks Area *	
1 Truck unloading		
2-way truck flow (veh/hr)		estimated
Truck volume (Mg)		calculated
Total material handling (Mg/hr)		assumed
TSP emission rate (kg/hr)	9.00E-02	calculated based on AP-42 Table 11.9-4
2 Bulldozing		
Moisture content (%)	7.0	mean value from AP-42 Table 11.9-3 for bulldozer
Silt content (%)		mean value from AP-42 Table 11.9-3 for buildozer
TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-2
101 Chilosoff rate (kg/fil)	1.00⊑∓00	Outomated based Off At 142 Table 11.372
3 Truck loading		
2-way truck flow (veh/hr)	18	estimated
Truck volume (Mg)		estimated
Total material handling (Mg/hr)		calculated
TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-4
, ,		
4 Vehicle traffic on unpaved roads		
Silt content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Moisture content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Average weight of vehicle (Mg)		estimated
2-way truck flow (veh/hr)		estimated
Average one-way travel distance within site (km)		estimated
TSP emission rate (kg/hr)	6.13E+00	calculated based on AP-42 Section 13.2.2
5 Site erosion	0.05	AD 40 T 11 44 0 4
TSP emission rate (Mg/hectare/yr)		AP-42 Table 11.9-4
Total site area (sq.m)		estimated
TSP emission rate (kg/hr)	5.29E-01	calculated
Total daytime TSP emissions from HSKNDA		
Roads Works Area (unmitigated)	10.16	kg/hr
or		g/sq.m/s
	0.102 00	9.04.1110
Nighttime Dust Emissions from HSKNDA Roads V	Vorks Area	
1 Site erosion		
TSP emission rate (Mg/hectare/yr)		AP-42 Table 11.9-4
Total site area (sq.m)		estimated
TSP emission rate (kg/hr)	5.29E-01	calculated
Total nighttime TSP emissions from HSKNDA		Landa.
Roads Works Area		kg/hr
or	∠./UE-06	g/sq.m/s
Daytime Dust Emissions from HSKNDA Area 5A V	Vorks Area	
Daytimo Dust Emissions nom Horndo Aled SA V	TOING AIRE	
1 Truck unloading		
2-way truck flow (veh/hr)	8	estimated
Truck volume (Mg)		calculated
Total material handling (Mg/hr)	40	assumed
TSP emission rate (kg/hr)	4.00E-02	calculated based on AP-42 Table 11.9-4
2 Bulldozing		
Moisture content (%)		mean value from AP-42 Table 11.9-3 for bulldozer
Silt content (%)		mean value from AP-42 Table 11.9-3 for bulldozer
TSP emission rate (kg/hr)	1.80E+00	calculated based on AP-42 Table 11.9-2
2 Truck loading		
3 Truck loading	_	petimated
2-way truck flow (veh/hr) Truck volume (Mg)		estimated estimated
Total material handling (Mg/hr)		calculated
TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-4
101 CHIISSIUH FAIC (KY/III)	1.20E-01	Calculated Dased Off AF -42 Table TT.3-4
4 Vehicle traffic on unpaved roads		
Silt content (%)	43	mean value from AP-42 Table 11.9-3 for haul truck
Moisture content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Average weight of vehicle (Mg)		estimated
2-way truck flow (veh/hr)		estimated
Average one-way travel distance within site (km)		estimated
TSP emission rate (kg/hr)	2.72E+00	calculated based on AP-42 Section 13.2.2

5 Site erosi			
	sion rate (Mg/hectare/yr)		AP-42 Table 11.9-4
	area (sq.m)	52039	estimated
TSP emis	sion rate (kg/hr)	5.05E-01	calculated
	, ,		
Total day	time TSP emissions from HSKNDA Area		
	s Area (unmitigated)		kg/hr
SA WOIKS	<u> </u>		
	or	3.09E-05	g/sq.m/s
Nighttime	Dust Emissions from HSKNDA Area 5A	Works Area	
1 Site erosi	ion		
	sion rate (Mg/hectare/yr)	0.95	AP-42 Table 11.9-4
	area (sq.m)		estimated
TSP emis	sion rate (kg/hr)	5.05E-01	calculated
Total nigl	httime TSP emissions from HSKNDA		
Area 5A V	Norks Area	0.50	kg/hr
	or		g/sq.m/s
	OI .	2.70L-00	9/34:11/3
1-			
Daytime I	<u>Dust Emissions from All Sewer Works Ar</u>	<u>ea *</u>	
1 Truck unl	loading		
	ck flow (veh/hr)	4	estimated
Truck volu			calculated
rotai mate	erial handling (Mg/hr)		assumed AD 40 T 11 410 4
TSP emis	sion rate (kg/hr)	2.00E-02	calculated based on AP-42 Table 11.9-4
2 Bulldozin	ıg .		
	content (%)	7.9	mean value from AP-42 Table 11.9-3 for bulldozer
Silt conter			mean value from AP-42 Table 11.9-3 for bulldozer
15P emis	sion rate (kg/hr)	1.80E+00	calculated based on AP-42 Table 11.9-2
3 Truck loa			
2-way truc	ck flow (veh/hr)	4	estimated
Truck volu	ime (Ma)	10	estimated
	erial handling (Mg/hr)		calculated
			calculated based on AP-42 Table 11.9-4
15P emis	sion rate (kg/hr)	3.60E-01	calculated based on AP-42 Table 11.9-4
	affic on unpaved roads		
Silt conter	nt (%)	4.3	mean value from AP-42 Table 11.9-3 for haul truck
Moisture o	content (%)	2.4	mean value from AP-42 Table 11.9-3 for haul truck
	veight of vehicle (Mg)		estimated
	ck flow (veh/hr)		estimated
Average c	one-way travel distance within site (km)		estimated
rsp emis	sion rate (kg/hr)	1.36E+00	calculated based on AP-42 Section 13.2.2
5 Site erosi	ion		
	sion rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4
	area (sq.m)		estimated
	sion rate (kg/hr)		calculated
1 OF BIIIS	Sion rate (ng/iii)	∠.//E-UI	Curcurated
	time TSP emissions from All Sewer		
Works Ar	ea (unmitigated)		kg/hr
	or	3.71E-05	g/sq.m/s
	-		
Nighttime	Dust Emissions from All Sewer Works	Area	
ragnume	2 22. 2 modicine ment All Gewer Works	74	
4 0:4	ion		
1 Site erosi		_	10.07.11.110.1
	sion rate (Mg/hectare/yr)		AP-42 Table 11.9-4
Total site	area (sq.m)	28590	estimated
TSP emis	sion rate (kg/hr)	2.77E-01	calculated
	, , ,		
Total!!	httime TCD emissions from All Course		
	httime TSP emissions from All Sewer		
Works Ar	ea		kg/hr
	or	2.70E-06	g/sq.m/s
* Note:			
11010.	locations of Works Areas, pls refer to Figure	2 Δ 3 1	
			inaliding that within Can Wai atudu ar
	orks Area means 1.5 km long Works Area o		
	A Roads Works Area means Road P1 Wor		
4. HSKND	OA Area 5A Works Area means that part of it	<u>t within Sa</u> n Wa	i study area
E All Carre	or Works Area includes Alternative 4 Direct	e Culvert Med	s Area, YLKTSSD Stage I (Package 1A-2T) Works Area, YLKTSSD Stage II
(Original F	rackage 2A-1 i ) Works Area and YLKTSSD	Stage II (Altern	native Package 2A-1T) Works Area within San Wai study area

endix 3A2: Mitigated Construction Phase Dust Emis	1 401013	
Daytime Dust Emissions from San Wai STW Work	s Area *	
1 Truck unloading		
2-way truck flow (veh/hr)	40	estimated
Truck volume (Mg)	10	calculated
Total material handling (Mg/hr)	200	assumed
Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
TSP emission rate (kg/hr)	1.00E-01	calculated based on AP-42 Table 11.9-4
2 Bulldozing		
Moisture content (%)		mean value from AP-42 Table 11.9-3 for bulldozer
Silt content (%)		mean value from AP-42 Table 11.9-3 for bulldozer
Dust mitigation efficiency (%) TSP emission rate (kg/hr)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2
, ,	0.99E-01	Calculated based Off AF -42 Table 11.5-2
Truck loading 2-way truck flow (veh/hr)	40	estimated
Truck volume (Mg)		estimated
Total material handling (Mg/hr)		calculated
Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.
TSP emission rate (kg/hr)	1.80E+00	calculated based on AP-42 Table 11.9-4
4 Vehicle traffic on unpaved roads		
Silt content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Moisture content (%)	2.4	mean value from AP-42 Table 11.9-3 for haul truck
Average weight of vehicle (Mg)	24	estimated
2-way truck flow (veh/hr)		estimated
Average one-way travel distance within site (km)		estimated
Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.
Dust reduction due to speed control (%)		Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2
TSP emission rate (kg/hr)	1.69E+00	calculated based on AP-42 Section 13.2.2
5 Site erosion		
TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4
Total site area (sq.m)	53337	estimated
Dust mitigation efficiency (%)	50	For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.
TSP emission rate (kg/hr)	2.59E-01	calculated
Total daytime TSP emissions from San Wai STW		
works area (mitigated)		kg/hr
or	2.47E-05	g/sq.m/s
Nighttime Dust Emissions from San Wai STW Wor	ks Area	
1 Site erosion		
TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4
Total site area (sq.m)		estimated
TSP emission rate (kg/hr)		calculated
Total nighttime TSP emissions from San Wai		
STW works area	0.52	kg/hr
or		g/sq.m/s
Daytime Dust Emissions from DBL Works Area *		
1 Truck unloading		
2-way truck flow (veh/hr)	18	estimated
Truck volume (Mg)	/-	
Total material handling (Ma/hr)		calculated
Total material handling (Mg/hr)	90	assumed
Total material handling (Mg/hr)  Dust mitigation efficiency (%)	90 50	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	90 50	assumed
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing	90 50 4.50E-02	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%)	90 50 4.50E-02 7.9	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%)	90 50 4.50E-02 7.9 6.9	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%)	90 50 4.50E-02 7.9 6.9 50	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Part Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	90 50 4.50E-02 7.9 6.9 50	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	90 50 4.50E-02 7.9 6.9 50 8.99E-01	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr)	90 50 4.50E-02 7.9 6.9 50 8.99E-01	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg)	90 50 4.50E-02 7.9 6.9 50 8.99E-01	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr)	90 50 4.50E-02 7.9 6.9 50 8.99E-01	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated estimated calculated
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	90 50 4.50E-02 7.9 6.9 50 8.99E-01 18 10 90	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated estimated calculated
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	90 50 4.50E-02 7.9 6.9 50 8.99E-01 18 10 90	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	90 50 4.50E-02 7.9 6.9 50 8.99E-01 18 10 90 50 8.10E-01	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	90 50 4.50E-02 7.9 6.9 50 8.99E-01 18 10 90 50 8.10E-01	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%)	90 50 4.50E-02 7.9 6.9 50 8.99E-01 18 10 90 50 8.10E-01	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	90 50 4.50E-02 7.9 6.9 50 8.99E-01 18 10 90 50 8.10E-01	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  1 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg)	90 50 4.50E-02 7.9 6.9 50 8.99E-01 18 10 90 50 8.10E-01	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr)	90 50 4.50E-02 7.9 6.9 50 8.99E-01 18 10 90 50 8.10E-01 4.3 2.4 24 18	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4. calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated
Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km)	90 50 4.50E-02 7.9 6.9 50 8.99E-01 18 10 90 50 8.10E-01 4.3 2.4 24 18	assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2 calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated estimated estimated estimated estimated

_	Otto anadan		
	Site erosion	0.05	AD 40 T-bl- 44 0 4
	TSP emission rate (Mg/hectare/yr) Total site area (sq.m)		AP-42 Table 11.9-4
			estimated AP 40 41 Piti O44 0 4 1
	Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
	TSP emission rate (kg/hr)	7.17E-01	calculated
	Total destina TOD anticolors from DDI anada		
	Total daytime TSP emissions from DBL works		
	area (mitigated)		kg/hr
	or	7.02E-06	g/sq.m/s
	Nighttime Dust Emissions from DBL Works Area		
- 1	Site erosion		
	TSP emission rate (Mg/hectare/yr)		AP-42 Table 11.9-4
	Total site area (sq.m)		estimated
	TSP emission rate (kg/hr)	1.43E+00	calculated
	Total nighttime TSP emissions from DBL works		
	area		kg/hr
	or	2.70E-06	g/sq.m/s
_ 1	<b>Daytime Dust Emissions from HSKNDA Roads Wor</b>	ks Area*	
	Truck unloading		
	2-way truck flow (veh/hr)		estimated
	Truck volume (Mg)		calculated
	Total material handling (Mg/hr)		assumed
	Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
	TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-4
	, 5 /		
2	Bulldozing		
	Moisture content (%)	7 9	mean value from AP-42 Table 11.9-3 for bulldozer
	Silt content (%)		mean value from AP-42 Table 11.9-3 for bulldozer
	Dust mitigation efficiency (%)	50	For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
	TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-2
	Tor emission rate (kg/m)	0.552 01	Calculated based 011711 42 Table 11.3 2
3	Truck loading		
	2-way truck flow (veh/hr)	18	estimated
	Truck volume (Mg)		estimated
	Total material handling (Mg/hr)		calculated
	Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
	TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-4
	13F emission rate (kg/m)	0.10L-01	Calculated based on AF-42 Table 11.5-4
4	Vehicle traffic on unpaved roads		
	Silt content (%)	4.2	mean value from AP-42 Table 11.9-3 for haul truck
	Moisture content (%)		mean value from AP-42 Table 11.9-3 for haul truck
	Average weight of vehicle (Mg)		estimated
	2-way truck flow (veh/hr)		estimated
	Average one-way travel distance within site (km)  Dust mitigation efficiency (%)		estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
	Dust reduction due to speed control (%)		Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2
	TSP emission rate (kg/hr)	1.27E+00	calculated based on AP-42 Section 13.2.2
_	Cita avasian		
	Site erosion		AD 40 T-bb- 44 0 4
	TSP emission rate (Mg/hectare/yr)		AP-42 Table 11.9-4
	Total site area (sq.m)		estimated
	Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
	TSP emission rate (kg/hr)	2.64E-01	calculated
	Total daytime TSP emissions from HSKNDA		
	THE REPORT OF THE PROPERTY OF		
			I. a. Ilau
	Roads Works Area (mitigated)		kg/hr
		<b>3.28</b> 1.67E-05	
	Roads Works Area (mitigated) or	1.67E-05	
	Roads Works Area (mitigated)	1.67E-05	
	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads Wo	1.67E-05	
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads W Site erosion	1.67E-05 orks Area	g/sq.m/s
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads Works  Site erosion  TSP emission rate (Mg/hectare/yr)	1.67E-05 orks Area 0.85	g/sq.m/s AP-42 Table 11.9-4
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads W.  Site erosion  TSP emission rate (Mg/hectare/yr)  Total site area (sq.m)	1.67E-05 orks Area  0.85 54518	g/sq.m/s  AP-42 Table 11.9-4 estimated
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads Works  Site erosion  TSP emission rate (Mg/hectare/yr)	1.67E-05 orks Area  0.85 54518	g/sq.m/s AP-42 Table 11.9-4
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads W.  Site erosion  TSP emission rate (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (kg/hr)	1.67E-05 orks Area  0.85 54518	g/sq.m/s  AP-42 Table 11.9-4 estimated
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads W.  Site erosion  TSP emission rate (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA	1.67E-05  orks Area  0.85 54518 5.29E-01	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads Works Area (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area	1.67E-05  orks Area  0.85  54518  5.29E-01	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads W.  Site erosion  TSP emission rate (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA	1.67E-05  orks Area  0.85 54518 5.29E-01	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads Works Area (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area	1.67E-05  orks Area  0.85  54518  5.29E-01	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads W.  Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area  or	1.67E-05  orks Area  0.85 54518 5.29E-01  0.53 2.70E-06	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads Works Area (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area	1.67E-05  orks Area  0.85 54518 5.29E-01  0.53 2.70E-06	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads Works Area (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area  or  Daytime Dust Emissions from HSKNDA Area 5A Works Area 5A Works Area	1.67E-05  orks Area  0.85 54518 5.29E-01  0.53 2.70E-06	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr
1	Roads Works Area (mitigated)  Or  Nighttime Dust Emissions from HSKNDA Roads Works Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area  Or  Daytime Dust Emissions from HSKNDA Area 5A Works unloading	1.67E-05  Orks Area  0.85 54518 5.29E-01  0.53 2.70E-06  Orks Area	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr g/sq.m/s
1	Roads Works Area (mitigated)  Or  Nighttime Dust Emissions from HSKNDA Roads Works Area (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area  Or  Daytime Dust Emissions from HSKNDA Area 5A Works Unionality (Mg/hr)  Truck unloading  2-way truck flow (veh/hr)	1.67E-05  orks Area  0.85 54518 5.29E-01  0.53 2.70E-06  orks Area '	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr g/sq.m/s
1	Roads Works Area (mitigated)  Or  Nighttime Dust Emissions from HSKNDA Roads W.  Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area  Or  Daytime Dust Emissions from HSKNDA Area 5A W.  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg)	1.67E-05  orks Area  0.85 54518 5.29E-01  0.53 2.70E-06  orks Area '	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr g/sq.m/s  estimated calculated
1	Roads Works Area (mitigated)  Or  Nighttime Dust Emissions from HSKNDA Roads Works Area (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area  Or  Daytime Dust Emissions from HSKNDA Area 5A Works Unionality (Mg/hr)  Truck unloading  2-way truck flow (veh/hr)	1.67E-05  orks Area  0.85 54518 5.29E-01  0.53 2.70E-06  orks Area '  8 10 40	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr g/sq.m/s  estimated calculated  assumed
1	Roads Works Area (mitigated)  or  Nighttime Dust Emissions from HSKNDA Roads Works Area (Mg/hectare/yr)  Total site area (sq.m)  TSP emission rate (Mg/hectare/yr)  Total nighttime TSP emissions from HSKNDA Roads Works Area  or  Daytime Dust Emissions from HSKNDA Area 5A Works Area  Truck unloading  2-way truck flow (veh/hr)  Truck volume (Mg)  Total material handling (Mg/hr)  Dust mitigation efficiency (%)	1.67E-05  orks Area  0.85 54518 5.29E-01  0.53 2.70E-06  orks Area  10 40 50	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr g/sq.m/s  estimated calculated  estimated calculated  For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
1	Roads Works Area (mitigated)  Or  Nighttime Dust Emissions from HSKNDA Roads W.  Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA Roads Works Area  Or  Daytime Dust Emissions from HSKNDA Area 5A W.  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	1.67E-05  orks Area  0.85 54518 5.29E-01  0.53 2.70E-06  orks Area  10 40 50	g/sq.m/s  AP-42 Table 11.9-4 estimated calculated  kg/hr g/sq.m/s  estimated calculated  assumed

2 Bulldozing		
Moisture content (%)	7.9	mean value from AP-42 Table 11.9-3 for bulldozer
Silt content (%)		mean value from AP-42 Table 11.9-3 for bulldozer
Dust mitigation efficiency (%)	50	For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-2
3 Truck loading		
2-way truck flow (veh/hr)		estimated
Truck volume (Mg) Total material handling (Mg/hr)		estimated calculated
Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-4
Tor emission rate (kg/m)	0.00L 01	Calculated based 011711 42 Table 11.5 4
4 Vehicle traffic on unpaved roads		
Silt content (%)	4.3	mean value from AP-42 Table 11.9-3 for haul truck
Moisture content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Average weight of vehicle (Mg)		estimated
2-way truck flow (veh/hr)		estimated
Average one-way travel distance within site (km)		estimated
Dust mitigation efficiency (%)	50	For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
Dust reduction due to speed control (%) TSP emission rate (kg/hr)		Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2 calculated based on AP-42 Section 13.2.2
15P emission rate (kg/m)	5.03E-01	Calculated based on AP-42 Section 13.2.2
5 Site erosion		
TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4
Total site area (sq.m)		estimated
Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
TSP emission rate (kg/hr)		calculated
Total daytime TSP emissions from HSKNDA Area		
5A Works Area (mitigated)	2.09	kg/hr
or	1.12E-05	g/sq.m/s
Nintestino Boot Forincino from HOVAIDA Anno FA	\A/l A	
Nighttime Dust Emissions from HSKNDA Area 5A	Works Area	
1 Site erosion		
TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4
Total site area (sq.m)		estimated
		calculated
TSP emission rate (kg/hr)		
TSP emission rate (kg/hr)		
TSP emission rate (kg/hr)  Total nighttime TSP emissions from HSKNDA		
Total nighttime TSP emissions from HSKNDA Area 5A Works Area		kg/hr
Total nighttime TSP emissions from HSKNDA	<b>0.50</b> 2.70E-06	
Total nighttime TSP emissions from HSKNDA Area 5A Works Area		
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or	2.70E-06	
Total nighttime TSP emissions from HSKNDA Area 5A Works Area	2.70E-06	
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Are	2.70E-06	
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading	2.70E-06	g/sq.m/s
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr)	2.70E-06	
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading	2.70E-06	g/sq.m/s estimated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg)	2.70E-06  ea *  4  10 20	g/sq.m/s estimated calculated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	2.70E-06  ea *  4  10  20  50	g/sq.m/s  estimated calculated assumed
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  ea *  4  10  20  50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing	2.70E-06  8a *  4  10  20  50  1.00E-02	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%)	2.70E-06  9a *  4  10  20  50  1.00E-02	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4 mean value from AP-42 Table 11.9-3 for bulldozer
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%)	2.70E-06  ea *  4  10  20  50  1.00E-02  7.9  6.9	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%)	2.70E-06  ea *  4  10  20  50  1.00E-02  7.9  6.9  50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%)	2.70E-06  ea *  4  10  20  50  1.00E-02  7.9  6.9  50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  ea *  4  10  20  50  1.00E-02  7.9  6.9  50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  8a *  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  9a *  4  10  20  50  1.00E-02  7.9  6.9  5.0  8.99E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr)	2.70E-06  9a *  4  10  20  50  1.00E-02  7.9  6.9  5.0  8.99E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 5.0 8.99E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Are  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 5.0 8.99E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 5.0 8.99E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads	2.70E-06  2.70E-06  2.70E-06  4  1.00E-02  7.9  6.9  5.0  8.99E-01  4  10  20  5.0  1.80E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%)	2.70E-06  2.70E-06  2.70E-06  4 10  2.70E-02  7.9  6.9  5.0  8.99E-01  4 10  2.0  5.0  1.80E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 5.9 8.99E-01  4 10 20 50 1.80E-01  4.3	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  mean value from AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01  4 10 20 50 1.80E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 6.9 8.99E-01  4 10 20 50 1.80E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km)	2.70E-06  Pa *  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 24 4 0.25	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%)	2.70E-06  2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 24 4 0.25 50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km)	2.70E-06  2.70E-06  2.70E-06  4.10  2.00  5.00  1.00E-02  7.99  6.99  5.00  8.99E-01  4.3  2.4  4.3  2.4  4.4  0.25  5.0  5.9	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%) Dust reduction due to speed control (%)	2.70E-06  2.70E-06  2.70E-06  4.10 2.00 5.00 1.00E-02  7.99 6.99 5.00 8.99E-01  4.3 2.4 4.3 2.4 4.0.25 5.0 5.9	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%) Dust reduction due to speed control (%) TSP emission rate (kg/hr)	2.70E-06  8a *  4 10 20 50 1.00E-02  7.9 6.9 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 4 0.25 50 2.81E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2 calculated based on AP-42 Section 13.2.2
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%) Dust reduction due to speed control (%) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr)	2.70E-06  2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 24 4 0.25 50 2.81E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2 calculated based on AP-42 Section 13.2.2
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%) Dust reduction due to speed control (%) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m)	2.70E-06  2.70E-06  2.70E-06  2.70E-06  4.10  2.70E-06  7.99  6.90  8.99E-01  4.3  2.4  4.3  2.4  4.4  0.25  5.0  5.9  2.81E-01  0.85  28590	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2 calculated based on AP-42 Section 13.2.2
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%) Dust reduction due to speed control (%) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) Dust mitigation efficiency (%)	2.70E-06  2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 4 0.25 50 59 2.81E-01  0.85 28590 50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated estimated estimated estimated estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2 calculated based on AP-42 Section 13.2.2
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%) Dust reduction due to speed control (%) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m)	2.70E-06  2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 5.9 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 4 0.25 50 59 2.81E-01  0.85 28590 50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2 calculated based on AP-42 Section 13.2.2
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%) Dust reduction due to speed control (%) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 5.9 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 4 0.25 50 59 2.81E-01  0.85 28590 50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated estimated estimated estimated estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2 calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 estimated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%) Dust reduction due to speed control (%) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Total daytime TSP emissions from All Sewer	2.70E-06  8a *  4 10 20 50 1.00E-02  7.9 6.9 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 4 0.25 50 2.81E-01  0.85 28590 50 1.39E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2 calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated
Total nighttime TSP emissions from HSKNDA Area 5A Works Area  Or  Daytime Dust Emissions from All Sewer Works Area  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) Dust mitigation efficiency (%) Dust reduction due to speed control (%) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  8a *  4 10 20 50 1.00E-02  7.9 6.9 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 4 0.25 50 2.81E-01  0.85 28590 50 1.39E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer for twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2 calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4.4 estimated

	Nighttime Dust Emissions from All Sewer Works A	rea		
1	Site erosion			
	TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4	
	Total site area (sq.m)	28590	estimated	
	TSP emission rate (kg/hr)	2.77E-01	calculated	
	Total nighttime TSP emissions from All Sewer Works Area	0.28	kg/hr	
	or		g/sq.m/s	
*	Note:			
	1. For the locations of Works Areas, pls refer to Figure A3.1			
	2. DBL Works Area means 1.5 km long Works Area of Deep Bay Link, including that within San Wai study area			
	3. HSKNDA Roads Works Area means Road P1 Work	s Area within S	San Wai study area	
	4. HSKNDA Area 5A Works Area means that part of it	within San Wa	i study area	
	SANDA Area SA Works Area includes Alternative 4 Bypass Culvert Works Area, YLKTSSD Stage I (Package 1A-2T) Works Area, YLKTSSD Stage II (Original Package 2A-1T) Works Area and YLKTSSD Stage II (Alternative Package 2A-1T) Works Area within San Wai study area			

pendix 3A3: Unmitigated Construction Phase Dust E		
Daytime Dust Emissions from Ha Tsuen PS Work	s Area *	
1 Truck unloading		
2-way truck flow (veh/hr)		estimated
Truck volume (Mg)		calculated
Total material handling (Mg/hr)		assumed
TSP emission rate (kg/hr)	2.00E-02	calculated based on AP-42 Table 11.9-4
2 Bulldozing		
Moisture content (%)	7.0	mean value from AP-42 Table 11.9-3 for bulldozer
Silt content (%)		mean value from AP-42 Table 11.9-3 for buildozer
TSP emission rate (kg/hr)		calculated based on AP-42 Table 11.9-2
( · g····)		
3 Truck loading		
2-way truck flow (veh/hr)	4	estimated
Truck volume (Mg)	10	estimated
Total material handling (Mg/hr)	20	calculated
TSP emission rate (kg/hr)	3.60E-01	calculated based on AP-42 Table 11.9-4
4 Vehicle traffic on unpaved roads		
Silt content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Moisture content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Average weight of vehicle (Mg)		estimated
2-way truck flow (veh/hr)		estimated
Average one-way travel distance within site (km)		estimated calculated based on AP-42 Section 13.2.2
TSP emission rate (kg/hr)	2.72E-01	Calculated dased on AP-42 Section 13.2.2
5 Site erosion		
TSP emission rate (Mg/hectare/yr)	0.05	AP 42 Table 11 0 4
Total site area (sq.m)		AP-42 Table 11.9-4 estimated
TSP emission rate (kg/hr)		calculated
TSP emission rate (kg/m)	1.27E-01	Calculated
Total daytime TSP emissions from Ha Tsuen PS		
Works Area (unmitigated)	2 58	kg/hr
or o		g/sq.m/s
OI	3.47 L-03	g/34.11/13
Nighttime Dust Emissions from Ha Tsuen PS Wor	rks Area	
1 Site erosion		
TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4
Total site area (sq.m)	13081	estimated
TSP emission rate (kg/hr)	1.27E-01	calculated
II		
Total nighttime TSP emissions from Ha Tsuen PS		
Total nighttime TSP emissions from Ha Tsuen PS Works Area	0.13	kg/hr
	0.13	kg/hr g/sq.m/s
Works Area	0.13	
Works Area	<b>0.13</b> 2.70E-06	
Works Area	<b>0.13</b> 2.70E-06	
Works Area OI  Daytime Dust Emissions from All Sewer Works A	<b>0.13</b> 2.70E-06	
Daytime Dust Emissions from All Sewer Works A  1 Truck unloading	0.13 2.70E-06	g/sq.m/s
Daytime Dust Emissions from All Sewer Works A  1 Truck unloading 2-way truck flow (veh/hr)	0.13 2.70E-06	
Daytime Dust Emissions from All Sewer Works A  1 Truck unloading	0.13 2.70E-06	g/sq.m/s estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg)	0.13 2.70E-06 rea * 4 10 20	g/sq.m/s  estimated calculated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	0.13 2.70E-06 rea * 4 10 20	g/sq.m/s  estimated calculated assumed
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	0.13 2.70E-06 rea * 4 10 20	g/sq.m/s  estimated calculated assumed
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)	0.13 2.70E-06 rea * 4 10 2.00E-02	g/sq.m/s  estimated calculated assumed
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%)	0.13 2.70E-06 rea * 4 10 20 2.00E-02	estimated calculated assumed calculated based on AP-42 Table 11.9-4
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%)	0.13 2.70E-06  rea *  4 10 2.00E-02  7.9 6.9	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%)	0.13 2.70E-06  rea *  4 10 2.00E-02  7.9 6.9	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading  Truck loading	0.13 2.70E-06  rea *  4 10 2.00E-02  7.9 6.9	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr)	0.13 2.70E-06  rea *  4 10 2.00E-02  7.9 6.9 1.80E+00	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg)	0.13 2.70E-06  rea *  4 10 20 2.00E-02  7.9 6.9 1.80E+00	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	0.13 2.70E-06  rea *  4 10 2.00E-02  7.9 6.9 1.80E+00  4 10 20	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg)	0.13 2.70E-06  rea *  4 10 2.00E-02  7.9 6.9 1.80E+00  4 10 20	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)	0.13 2.70E-06  rea *  4 10 2.00E-02  7.9 6.9 1.80E+00  4 10 20	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Total material handling (Mg/hr) TSP emission rate (kg/hr)	0.13 2.70E-06  rea *  4 10 20 2.00E-02  7.9 6.9 1.80E+00  4 10 20 3.60E-01	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%)	0.13 2.70E-06  rea *  4 10 2.00E-02  7.9 6.9 1.80E+00  4 10 20 3.60E-01	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%)	0.13 2.70E-06 2.70E-06 4 10 20 2.00E-02 7.9 6.9 1.80E+00 4 10 20 3.60E-01 4.3	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg)	0.13 2.70E-06  rea *  4 10 20 2.00E-02  7.9 6.9 1.80E+00  4 10 20 3.60E-01	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr)	7.9 1.80E+00 3.60E-01 4.3 2.4 4.4	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km)	7.9 1.80E+00 4.3 2.4 4.3 2.4 4.3	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr)	7.9 1.80E+00 4.3 2.4 4.3 2.4 4.3	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)	7.9 1.80E+00 4.3 2.4 4.3 2.4 4.3	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)	0.13 2.70E-06  rea *  4 10 20 2.00E-02  7.9 6.9 1.80E+00  4 10 20 3.60E-01  4.3 2.4 4 0.25 1.36E+00	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2
Daytime Dust Emissions from All Sewer Works A	0.13 2.70E-06  rea *  4 10 20 2.00E-02  7.9 6.9 1.80E+00  4 10 20 3.60E-01  4.3 2.4 4 0.25 1.36E+00	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m)	0.13 2.70E-06  rea *  4 10 20 2.00E-02  7.9 6.9 1.80E+00  4 10 20 3.60E-01  4.3 2.4 24 4 0.25 1.36E+00	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr)	0.13 2.70E-06  rea *  4 10 20 2.00E-02  7.9 6.9 1.80E+00  4 10 20 3.60E-01  4.3 2.4 24 4 0.25 1.36E+00	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) TSP emission rate (kg/hr)	0.13 2.70E-06  rea *  4 10 20 2.00E-02  7.9 6.9 1.80E+00  4 10 20 3.60E-01  4.3 2.4 24 4 0.25 1.36E+00	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated
Daytime Dust Emissions from All Sewer Works A  1 Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  2 Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  3 Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  4 Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  5 Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) TSP emission rate (kg/hr)  Total daytime TSP emissions from All Sewer	0.13 2.70E-06 2.70E-06 4 10 2.00E-02 7.9 6.9 1.80E+00 4 10 20 3.60E-01 4.3 2.4 24 4.3 2.4 1.36E+00 0.25 1.36E+00	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated calculated
Works Area  Daytime Dust Emissions from All Sewer Works A  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km) TSP emission rate (kg/hr)  Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m) TSP emission rate (kg/hr)	0.13 2.70E-06  rea *  4 10 20 2.00E-02  7.9 6.9 1.80E+00  4 10 20 3.60E-01  4.3 2.4 2.4 4.0.25 1.36E+00  0.85 18898 1.83E-01	estimated calculated assumed calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer calculated based on AP-42 Table 11.9-2  estimated estimated calculated calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated calculated based on AP-42 Section 13.2.2  AP-42 Table 11.9-4 estimated

	Nighttime Dust Emissions from All Sewer Works Area		
1	Site erosion		
	TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4
	Total site area (sq.m)	18898	estimated
	TSP emission rate (kg/hr)	1.83E-01	calculated
	Total nighttime TSP emissions from All Sewer		
	Works Area	0.18	kg/hr
	or	2.70E-06	g/sq.m/s
*	Note:		
	1. For the locations of Works Areas, pls refer to Figure A3.2     2. All Sewer Works Area includes YLKTSSD Stage I (Package 1A-2T) Works Area and YLKTSSD Stage II (Original Package 2A-1T) Works Area Figure A3.2.		

· ·	sion Factors	
Daytime Dust Emissions from Ha Tsuen PS Works	Area *	
Truck unloading		
2-way truck flow (veh/hr)	4	estimated
Truck volume (Mg)		calculated
Total material handling (Mg/hr)		assumed
Dust mitigation efficiency (%)	50	For twice daily watering with complete coverage, AP-42 4th edition S11.2.4
TSP emission rate (kg/hr)	1.00E-02	calculated based on AP-42 Table 11.9-4
Bulldozing		
Moisture content (%)		mean value from AP-42 Table 11.9-3 for bulldozer
Silt content (%)		mean value from AP-42 Table 11.9-3 for bulldozer
Dust mitigation efficiency (%) TSP emission rate (kg/hr)	8.99E-01	For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2
Truck loading		
2-way truck flow (veh/hr)	4	estimated
Truck volume (Mg)	10	estimated
Total material handling (Mg/hr)		calculated
Dust mitigation efficiency (%)	50	For twice daily watering with complete coverage, AP-42 4th edition S11.2.4
TSP emission rate (kg/hr)	1.80E-01	calculated based on AP-42 Table 11.9-4
Vehicle traffic on unpaved roads		
Silt content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Moisture content (%)		mean value from AP-42 Table 11.9-3 for haul truck
Average weight of vehicle (Mg)  2-way truck flow (veh/hr)		estimated
		estimated estimated
Average one-way travel distance within site (km)  Dust mitigation efficiency (%)		estimated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4
Dust mitigation emciency (%)  Dust reduction due to speed control (%)	50	Speed limit reduce to 10km/hr, reduction according to Section 13.2.2.2
TSP emission rate (kg/hr)	5.63E-02	calculated based on AP-42 Section 13.2.2
Site erosion		
TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4
Total site area (sq.m)	13081	estimated
Dust mitigation efficiency (%)	50	For twice daily watering with complete coverage, AP-42 4th edition S11.2.4
TSP emission rate (kg/hr)	6.35E-02	calculated
Total daytime TSP emissions from Ha Tsuen PS		
Works Area (mitigated)		kg/hr q/sq.m/s
Site erosion TSP emission rate (Mg/hectare/yr) Total site area (sq.m)		AP-42 Table 11.9-4 estimated
TSP emission rate (kg/hr)		calculated
Total nighttime TSP emissions from Ha Tsuen		
PS Works Area		kg/hr
	<b>0.13</b> 2.70E-06	
PS Works Area	2.70E-06	
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading	2.70E-06	
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading  2-way truck flow (veh/hr)	2.70E-06	g/sq.m/s estimated
Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg)	2.70E-06	g/sq.m/s  estimated calculated
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr)	2.70E-06  ea *  4  10 20	g/sq.m/s  estimated calculated assumed
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%)	2.70E-06  2a *  4  10  20  50	g/sq.m/s  estimated calculated assumed
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  2a *  4  10  20  50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%)	2.70E-06  2.70E-06  4  10  20  50  1.00E-02	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4 mean value from AP-42 Table 11.9-3 for bulldozer
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%)	2.70E-06  2.70E-06  4  10  20  50  1.00E-02	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)	2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading  2-way truck flow (veh/hr)  Truck volume (Mg)  Total material handling (Mg/hr)  Dust mitigation efficiency (%)  TSP emission rate (kg/hr)  Bulldozing  Moisture content (%)  Silt content (%)  Dust mitigation efficiency (%)  TSP emission rate (kg/hr)	2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading  2-way truck flow (veh/hr)  Truck volume (Mg)  Total material handling (Mg/hr)  Dust mitigation efficiency (%)  TSP emission rate (kg/hr)  Bulldozing  Moisture content (%)  Silt content (%)  Dust mitigation efficiency (%)  TSP emission rate (kg/hr)	2.70E-06  2a *  4  10  20  50  1.00E-02  7.9  6.9  5.0  8.99E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2 estimated
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 5.9 8.99E-01  4 10 20 50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2  estimated estimated calculated
PS Works Area  Or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading  2-way truck flow (veh/hr)  Truck volume (Mg)  Total material handling (Mg/hr)  Dust mitigation efficiency (%)  TSP emission rate (kg/hr)  Bulldozing  Moisture content (%)  Silt content (%)  Dust mitigation efficiency (%)  TSP emission rate (kg/hr)  Truck loading  2-way truck flow (veh/hr)  Truck volume (Mg)  Total material handling (Mg/hr)  Dust mitigation efficiency (%)  TSP emission rate (kg/hr)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 5.9 8.99E-01  4 10 20 50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%)	2.70E-06  2a *  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01  4 10 20 50 1.80E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2 estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4 mean value from AP-42 Table 11.9-3 for haul truck
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%)	2.70E-06  2a *  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01  4 10 20 50 1.80E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2 estimated estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-3 mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Silt content (%) TSP emission rate (kg/hr)  TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 5.9 8.99E-01  4 10 20 50 1.80E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2  estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated
PS Works Area  Or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01  4 10 20 50 1.80E-01	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Bulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr) Average one-way travel distance within site (km)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 4 0.25	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated calculated For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated estimated estimated estimated estimated
PS Works Area  or  Daytime Dust Emissions from All Sewer Works Are  Truck unloading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  PBulldozing Moisture content (%) Silt content (%) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Truck loading 2-way truck flow (veh/hr) Truck volume (Mg) Total material handling (Mg/hr) Dust mitigation efficiency (%) TSP emission rate (kg/hr)  Vehicle traffic on unpaved roads Silt content (%) Moisture content (%) Average weight of vehicle (Mg) 2-way truck flow (veh/hr)	2.70E-06  2.70E-06  4 10 20 50 1.00E-02  7.9 6.9 50 8.99E-01  4 10 20 50 1.80E-01  4.3 2.4 4 0.25 50	estimated calculated assumed For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-3 for bulldozer mean value from AP-42 Table 11.9-3 for bulldozer For twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-2  estimated estimated estimated for twice daily watering with complete coverage, AP-42 4th edition S11.2.4 calculated based on AP-42 Table 11.9-4  mean value from AP-42 Table 11.9-3 for haul truck mean value from AP-42 Table 11.9-3 for haul truck estimated estimated estimated estimated

Site erosion				
TSP emission rate (Mg/hectare/yr)		AP-42 Table 11.9-4		
Total site area (sq.m)	18898	estimated		
Dust mitigation efficiency (%)		For twice daily watering with complete coverage, AP-42 4th edition S11.2.		
TSP emission rate (kg/hr)	9.17E-02	calculated		
Total daytime TSP emissions from All Sewer				
Works Area (mitigated)	1.46	kg/hr		
or	2.15E-05	g/sq.m/s		
Nighttime Dust Emissions from All Sewer Works Art	<u>ea</u>			
Site erosion				
TSP emission rate (Mg/hectare/yr)	0.85	AP-42 Table 11.9-4		
Total site area (sq.m)	18898	estimated		
TSP emission rate (kg/hr)	1.83E-01	calculated		
Total nighttime TSP emissions from All Sewer				
Works Area	0.18	kg/hr		
or	2.70E-06	g/sq.m/s		
Note:				
1. For the locations of Works Areas, pls refer to Figure A	A3.2			
Total site area (sq.m) TSP emission rate (kg/hr)  Total nighttime TSP emissions from All Sewer Works Area  or  Note:	18898 1.83E-01 <b>0.18</b> 2.70E-06	estimated calculated  kg/hr g/sq.m/s		