

## Emission attachment

Table 9.1: Emissions and discharges

	Source of emission or discharge	Emission or discharge type	Volume and frequency (Diesel fuel burn)	Proposed controls (include in Attachment 6A if extensive or complex)	Location (on site layout plan – see 3.4)
1.	D9 Dozer	Diesel engine emissions primarily consist of particulate matter (PM), nitrogen oxides (NOx), carbon monoxide (CO), hydrocarbons (HC), and sulfur dioxide (SO2)	35L per hour for 10 hours a day for 80 days	Correct use of plant as per OEM– Trained operators. Plant servicing as per OEM recommendations.  Service system that includes fault recording and plant monitoring to ensure all plant systems are working at the OEM efficiency levels.  LucasTCS use a digital system called Upvise. See in footnotes.  Fuel will be stored in bunded fuel containers, spill kits are available on each crushing and screening plant and in borrow pit areas. Drip trays used for refuelling.	Within proposed borrow pit location marked on Attachment 2
2.	Crusher		50L per hour for 10 hours a day for 80 days		
3.	Stacker		20L per hour for 10 hours a day for 80 days		
4.	Loader		30L per hour for 10 hours a day for 80 days		
5.	Excavator (30t)		25L per hour for 10 hours a day for 80 days		
6.	2x ADT		50L per hour for 10 hours a day for 80 days		
7.	D9 Dozer	Noise	116 DB	Diesel engines reduce noise by using silencers, sound-absorbing materials, and acoustic enclosures. Correct plant operation and servicing	
8.	Crusher		112 DB		
9.	Stacker		75 DB		
10.	Loader		104 DB		
11.	Excavator (30t)		95 DB		
12.	2x ADT		103 DB		
13.	D9 Dozer	Dust	N/A	All LucasTCS crushing and screening plant have onboard dust suppression systems. Approved 'for use' roads and tracks dust will be controlled with water carts.	
14.	Crusher		N/A		
15.	Stacker		N/A		
16.	Loader		N/A		
17.	Excavator (30t)		N/A		
18.	2x ADT		N/A		
19.					

Footnote for emission use;

A Diesel engine - The amount of fuel burned directly correlates with the volume of exhaust produced. Specific emission data (like grams of pollutants per hour) is not readily available for a diesel engines due to many variable factors.

## Emission attachment

## Upvise screenshot

