

9.3 Summary of Assessment of Potential Health Effects

Potential health effects of the Proposed Project and associated key mitigation measures are presented in Table 9.3-1. A summary of predicted residual health effects and residual cumulative health effects are presented in Table 9.3-2.

Table 9.3-1: Summary of Potential Health Effects and Associated Key Mitigation Measures

Valued Component	Phase	Potential Effect	Key Mitigation Measures	
			No.	Description
Public Health				
People	Construction Operations Reclamation and Closure	Human Health - Air Quality Human Health - Particulate Matter Human Health - Multimedia	M-5.7-01 to M-5.7-08	Measures outlined in Air Quality section.
People	Construction Operations Reclamation and Closure	Human Health - Air Quality Human Health - Particulate Matter Human Health - Multimedia	M-9.1-01	Confirmation that a Health and Safety Plan for workers covers the mitigation of exposure of workers to dust and particulate matter.
Noise				
Noise Levels	Construction Operations Reclamation and Closure	Increase in noise levels	M-9.2-01	Limit construction activity to daytime hours.
Noise Levels	Construction Reclamation and Closure	Increase in noise levels	M-9.2-02	Schedule significant noise-causing activities to reduce disruption to nearby residents.
Noise Levels	Construction Reclamation and Closure	Increase in noise levels	M-9.2-03	Position heavy equipment muster points at least 500 m from any receptor.
Noise Levels	Construction Reclamation and Closure	Increase in noise levels	M-9.2-04	Fit equipment with standard mufflers or silencers and keep in good working order.
Noise Levels	Construction Reclamation and Closure	Increase in noise levels	M-9.2-05	Use acoustical screening from existing on-site barriers.
Noise Levels	Operations	Increase in noise levels	M-9.2-06	Construct a McNab Creek Flood Protection Dyke, approximately 830 m long and 5 m high on the north side of the aggregate pit.
Noise Levels	Operations	Increase in noise levels	M-9.2-07	Construct a Pit Lake Containment Berm, approximately 800 m long and 9 m high on the south side of the aggregate pit.
Noise Levels	Operations	Increase in noise levels	M-9.2-08	Construct a Processing Area Dirt Berm, approximately 230 m and 9 m high on the east side of the processing plant.
Noise Levels	Operations	Increase in noise levels	M-9.2-09	Dry screens and crusher in the processing plant will be housed in fabric enclosures.

Table 9.3-2: Summary of Assessment of Potential Residual and Cumulative Residual Health Effects

Valued Component	Phase	Residual Effect Assessment		Cumulative Residual Effect Assessment	
		Potential Effect	Significance	Potential Effect	Significance
Public Health					
People	Construction	Human Health - Air Quality	Negligible to Not Significant	Human Health - Air Quality	Negligible
		Human Health - Particulate Matter		Human Health - Particulate Matter	
		Human Health - Multimedia			
People	Operations	Human Health - Air Quality	Negligible to Not Significant	Human Health - Air Quality	Negligible
		Human Health - Particulate Matter		Human Health - Particulate Matter	
		Human Health - Multimedia			
People	Reclamation and Closure	Human Health - Air Quality	Negligible to Not Significant	Human Health - Air Quality	Negligible
		Human Health - Particulate Matter		Human Health - Particulate Matter	
		Human Health - Multimedia			
Noise					
Noise Levels	Construction	Increase in noise levels.	Negligible	n/a	n/a
Noise Levels	Operations	Increase in noise levels.	Negligible	n/a	n/a
Noise Levels	Reclamation and Closure	Increase in noise levels.	Negligible	n/a	n/a