



Daudet Creek Contracting Ltd.

Explorer Gravel Pit

Dust / Noise Management Plan

Hirsch Creek, Range 5, Coast District

Licence # 6408866



Section 1:

Noise Control

The nearest residence from the Explorer pit is approximately 2km, and workers should be cautious of the “nuisance noise” they are creating. The following items will be implemented;

- ~ Avoidance of tail gate slamming on dump trucks
- ~ White noise (strobe) lights be utilized instead of back up alarms
- ~ Prohibiting engine brake use on access roads and operation.
- ~ Blasting will be carried out with the appropriate weather and time of day to mitigate noise pollution.

When drilling is to take place, all workers are to be off site to limit any impact of noise to the workers from the drilling equipment.

Keep in mind noise has the ability to “echo” or travel when bouncing off a rock face, or hillside. Locating the crusher and processing equipment sub terrain (pit floor) will help prevent noise from travelling; instead the pit walls should help retain the sound energy. In addition, keeping all mobile & processing equipment in good repair will help reduce unnecessary noise.



Section 2:

Dust Control

The Explorer pit will maintain a Tree'd buffer between the operations area and Highway 37 south. Vegetation buffers are the preferred method of mitigating dust rather than unsightly berms, and or fencing/man made barriers. Vegetation buffers are relatively maintenance free once established.

The following will be used to mitigate dust;

- ~ Use of water truck to wet access roads on dry days.
- ~ The use of calcium chloride and/or environmentally approved substitute.
- ~ Ensuring blasting is done on wet/overcast days to mitigate dust particles.
- ~ Utilising water spray bars on crusher & processing equipment.
- ~ Posted speeds limits to be 30km or less to inhibit dust in the processing area and haul roads.



Section 2a:

Water truck;

The use of a water truck to keep road surfaces wet in order to prevent dust can be successful. However there are obstacles to consider;

- Water run off/erosion
- Volume and source of water to be used
- The ability to keep up on a hot and/or windy day

The Explorer pit plans to utilize a water truck as its primary means to prevent road dust. If proven difficult, Daudet Creek has the ability to have a second water truck work in tandem.

Section 2b:

Calcium chloride (or substitute)

Understanding the use of calcium chloride, and/or environmentally approved substitute is significant when thinking about dust control. Not only is dust a nuisance, it can create a significant safety risk. Dust particles can impede ones vision and/or respiratory function resulting in unsafe situations. Calcium chloride is typically applied once the gravel road has graded to an acceptable state. Calcium chloride is then added typically using a tank truck and rear mounted distribution bar. The product works by absorbing moisture from the air, and or surface and retains it essentially creating a film over the gravel road. In addition to dust prevention, calcium chloride has the ability to “hold the road” further reducing the amount of grading required.

The Explorer pit plans to utilize Calcium chloride a minimum of twice (2x) per year.



Section 2c:

Blasting weather;

Blasting shall be carried out on either wet or overcast days to prevent the distribution of dust particulate. Wind speed and direction will also be given significant consideration. The fact Kitimat has a substantially wet climate, and blasting is typically only required 3-4 times per year, careful planning and coordinating should be able to accomplish this.

Section 2d:

Water Spray bars;

All of Daudet Creek's crushing & screen equipment are equipped with sprays bars in which water is sprayed on the aggregate being produced in return reducing the amount of dust created. The main things to consider when using spray bars;

- ~ Ensure they are in good working order, and free of blockage
- ~ Verify you have a secure source of water to maintain the requirements of the spray bar.
- ~ Monitor the amount and path of excess water run off.

By ensuring the above main points, reducing dust via spray bars should prove to efficient.



Section 2e:

Haul road dust;

The contributing factors to road dust are speed, and/or engine exhaust direction. All of Daudet Creek's gravel trucks & mobile equipment have exhaust stacks that vent upwards, preventing unnecessary road dust. Speed, being the number one dust cause on haul roads & processing area will be limited to 30 km/hr.

In conclusion, following the points & procedures indicated in Section 1 & 2 of this document should allow the Explorer Pit to reduce and/or eliminate dust & noise to the environment. Employee consultation, safety & buy in is paramount and without participation and understanding from the entire workforce the Dust & Noise Control plan will be unsuccessful.