

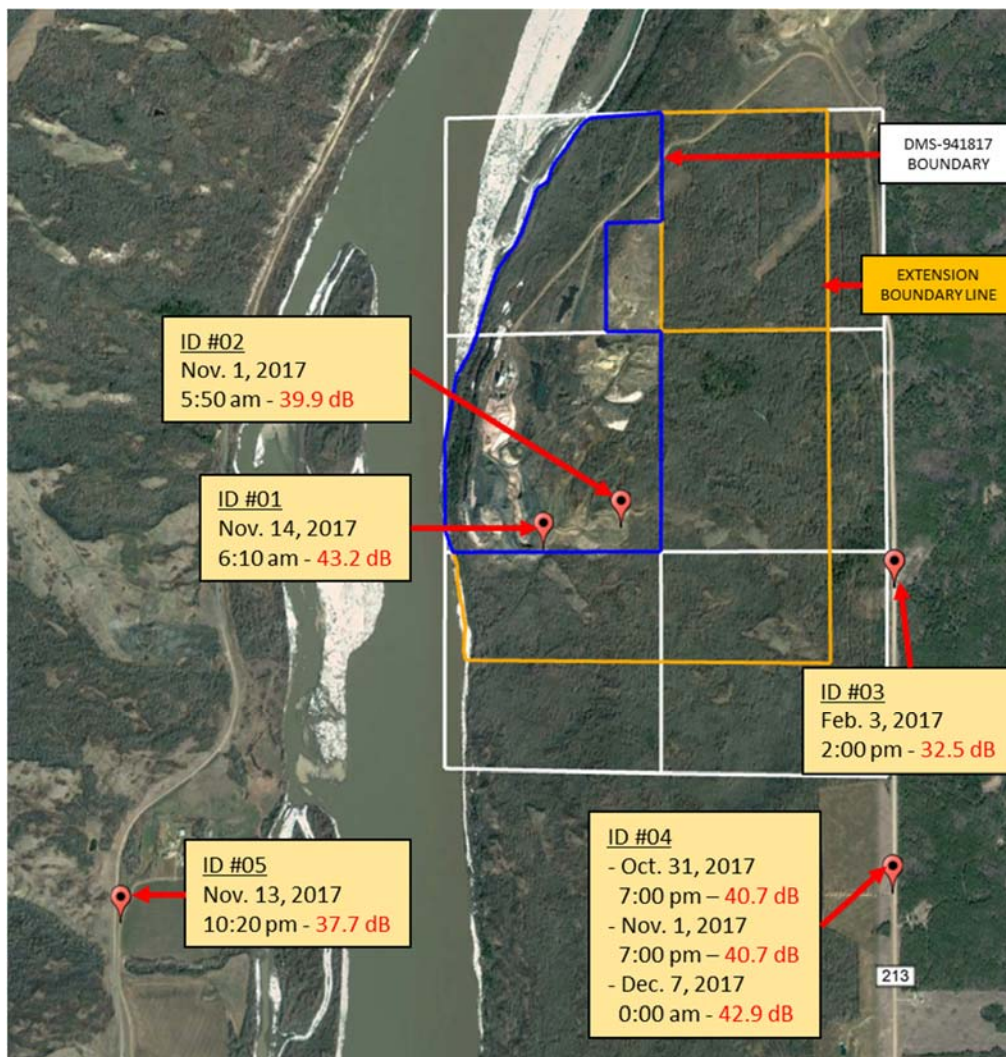


PEACE RIVER OPERATIONS FACT SHEET

CSI undertakes significant efforts to minimize noise pollution generated from its operations. At Peace River, this is monitored through periodic noise surveys that are undertaken at various location around the site to ensure compliance with regulatory requirements for industrial plants for its operations.

Below is a map of the various data collection points and the results of the noise surveys.

NOISE MAPPING DATA





Measurement ID	Location of Measurement
1	High point of ground at South end of mine site
2	High point of ground at South East end of mine site
3	Top of hill above MD pit
4	Near Walty residence
5	Across river at farmhouse

What are the regulatory requirements for permissible sound levels?

The Permissible Sound Level (PSL) is calculated as follows:

$$\text{Permissible sound level} = \text{Basic sound level (Table 1)} + \text{Daytime adjustment} + \text{Class A adjustment (Table 2)} + \text{Class B adjustment (Table 3)}$$

Reference: Alberta Energy Regulator, Directive 038: Noise Control, February 16, 2007.

Calculated Permissible Sound Level for Peace River Operations

	Daytime (7:00 – 22:00)	Nighttime (22:00 – 7:00)
Permissible sound level during non-winter time (dBA)	55	45
Permissible sound level during winter time (dBA)	60	50

Notes:

- Basic sound level for nighttime is 45 dBA (Directive 038, Table 1)
Factors considered for Table 1:
 - o Dwelling unit density per quarter of land: 1 - 8 dwellings
 - o Proximity to transportation: Category 2 – dwelling units more than 30 m but less than 500 m from heavily travelled roads
- Daytime adjustment is 10 dBA above the nighttime (Directive 038, Section 2.1.2.1)
- Class A (winter) adjustment is + 5 dBA (Directive 038, Table 2)
- Class B adjustment (temporary noise generating activities) was not applied



What are CSI's plans for ongoing monitoring and stewardship of permissible sounds levels?

1. CSI currently implements periodic noise mapping at strategic locations and will publish those results to this fact sheet.
2. CSI has installed new backup alarms on all mobile equipment to bring the noise down to within only 5 dBA of the equipment noise level as further mitigation strategy for noise.