Noise, Vibration, Air & Water Quality Report / June 2025

Executive Summary

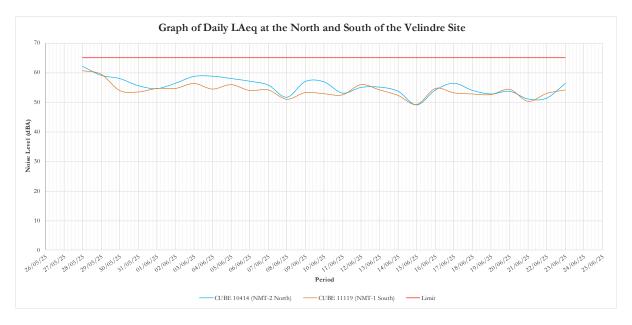
Noise, vibration and air quality data is generated by onsite internal monitors, administered by Acoustic1, located in the North and South of the site. An additional vibration monitor offsite is located at the Whitchurch Hospital Chapel.

Water quality data of the attenuation pond is measured using a handheld pH monitoring device on a weekly inspection basis.

Data is compiled monthly. Over the June measurement period, no exceedances on limits to noise, vibration, air quality or water quality were recorded.

	Layout	Period	Data Type	Threshold Values	Work Hours
Noise	One graph of both CUBE Units	Daily averages	Leq	65dB	8am-6pm
	Two graphs, on site and off site		•		•
Vibration	(church)	Hourly averages	mm/s	3mm/s	8am-6pm
Air Quality	One graph of both KUNAK Units	Hourly averages	PM10	190µg/m^3	8am-6pm
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Location	CUBE	ORION	KUNAK		
South Monitoring					
Point	CUBE 11119 (NMT-2)	ORION (VMT-2)	K-B3 SOUTH		
North Monitoring		,			
Point	CUBE 10695 (NMT-1)	ORION (VMT-1)	K-B3 NORTH		
Church	NI / A	ORION (VMT 3)	NT / A		

Noise

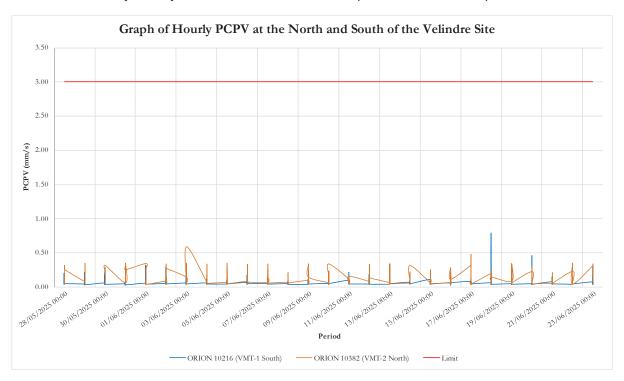


It was recommended in the Environmental Strategy (ES – produced by Walters) to limit noise on site to 70dB(A). Sacyr has set a soft limit of 65dB(A); anything surpassing this limit requires investigation, though mitigation measures need to be in place for anything over the hard limit of 70dB(A).

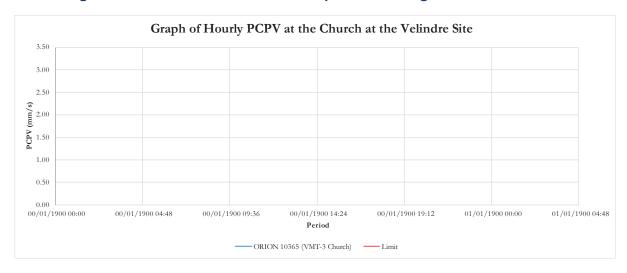
No Noise exceedances recorded in the period 28/05/25 - 23/06/25

Vibration

No limit on vibration has yet been set between Sacyr and Cardiff Council, however, a provisional limit has been set as vibrations measuring 1.00mm/s or more, lasting for longer than an hour, can often be felt by nearby residents and can be subsequent causes of complaint.



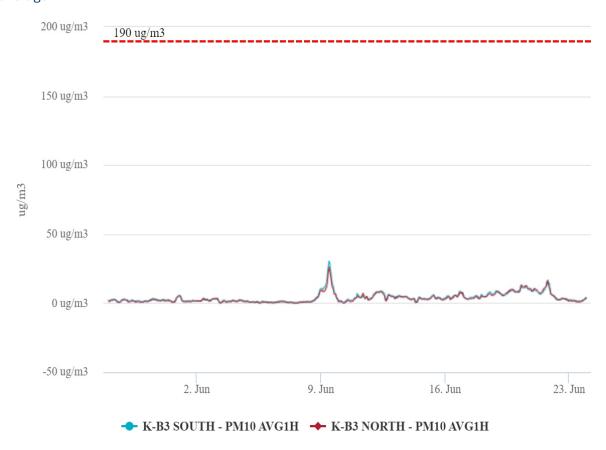
No vibration data recorded exceeded the 1.00mm/s limit at both the North and South monitoring stations on the Velindre site for the period covering 28/05/2025-23/06/2025.



There is no vibration data available for June 25 from the Church vibration monitor station as it is currently offline due to access issues.

Air Quality

Internal air quality monitors measure 'Particulate Matter' PM1, PM2.5 and PM10. These refer to the size (microns) of the particulates, with PM10 being the largest. Limits on PM10 must not exceed $40\mu g/m3$ on an annual average and no more than 35 instances per year of $50\mu g/m3$ daily average.



There were no exceedances on PM10 recorded.

The mean average for hourly recordings of PM10 (01/06/25-23/06/25) are as follows:

South monitoring station PM10 AVG1h (ug/m3) - 4.24ug/m3

North monitoring station PM10 AVG1h (ug/m3) – 4.04ug/m3

Water Quality

The nVCC site features drainage systems to manage water onsite which is directed to an attenuation pond. The pH of the water in the attenuation is monitored on a weekly basis. A pH range is set by Dwr Cymru Welsh Water with a lower limit of pH6 and upper limit of pH 11.

Date	Time	Water Level (cm)	Level Status	Equipment Used	Weather Conditions	Action Taken
6-Jun- 25	10:50am	20	(pH 9.03)	pH Monitor	Partial cloud	None
13-Jun- 25	11:00am	15	(pH 7.89)	pH Monitor	Sunny	None
20-Jun- 25	9:30am	30	(pH 8.30)	pH Monitor	Sunny	None
27-Jun- 25	10:00am	30	(pH 9.80)	pH Monitor	Sunny	None

No lower or upper exceedances recorded in weekly measurements June 2025.