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Our Ref: FK/PAO

7 December 2017

Victoria Robinson
Operational Manager Development Management
The Vale of Glamorgan Council
Dock Office
Barry Docks
Barry
CF63 4RT

By Email: Planning@valeofglamorgan.gov.uk

Dear Ms Robinson

Application for Planning: 2017/01203/FUL Cog Moors Wastewater Treatment Works, Cardiff Road, Dinas Powys

We welcome the opportunity to comment on this application. This assessment is based on actual or potential health risks from environmental exposures to chemicals, noise from the proposed operations including emergencies and extreme environmental events such as flooding.

We have consulted with our colleagues at the Environmental Public Health Service (delivered collaboratively through Public Health Wales' Health Protection Team and Public Health England's Centre for Radiation, Chemical and Environmental Hazards Wales)".

Any recommendations are for consideration by the Regulator and be reflected in any permit conditions made (see rationale below).

Proposed Operations

The proposal is for an advanced anaerobic digestion (AAD) plant. The biogas produced by this plant will be used, via a combined heat and power (CHP) plant, to generate heat and renewable electricity for use on site or for export to the electricity grid. The CHP plant and gas boilers used will produce emissions to atmosphere through an 18m stack in order to allow good dispersion. Sewage sludge will be imported and exported

The WwTW site is located within a gently undulating landscape, characterized by small fields separated by ditches and enclosed by hedgerows and trees. The land rises more steeply to the north of the site and is intermittently wooded. The nearest residential properties are located approximately 230m to the east and 290m to the south east. Other residential properties are located, at distances of more than 0.5km.

Overall Conclusion

Schemes to avoid the generation of greenhouse gasses or that otherwise capture and use those gasses for beneficial use are encouraged.

Emissions of public health concern have been identified by the applicant and assessed as not significant. Subject to the LPA being satisfied with the applicant's air quality, noise and odour assessments, then we would have no grounds for objection based upon the public health considerations contained within the application.

If not already in place we would recommend the implementation an to include an accident management plan.

Public Health Risk Assessment

Emissions of public health concern have been identified by the applicant.

The air quality assessment which includes reference to cumulative impacts concludes that both the process contribution (PC) and predicted environmental concentration (PEC) are within standards for the protection of human health.

The supplied noise assessment concludes that subject to the implementation of additional mitigation within the design of the facility noise generated by the proposed AAD facility would not be considered detrimental to the amenity of the nearest noise sensitive receptor locations

Associated daily two-way vehicle movements will increase slightly from 23 to 40 (over the longer term).

The supplied odour modelling results show that receptors closest to the site are expected to experience negligible changes in odour. Three sensitive receptors are anticipated to experience an overall decrease in odour, likely to be due to the more effective odour control measures being implemented and the exhaust design which will facilitate better dispersion than the current units.

Any additional information obtained by the Regulator in relation to these comments should be sent to us for consideration. Such information could affect the comments made in this response.

Yours sincerely



Fiona Kinghorn
Deputy Director of Public Health