



OUT15/10289

AGL Upstream Investments Pty Ltd (A.C.N 115063744)
The Proper Officer
Level 22
101 Miller Street
NORTH SYDNEY NSW 2060

Dear Sir/Madam

Application to Recommence Pumping Flowback Water at the Waukivory Pilot Site

The Department received a request on the 26th April 2015 from AGL Upstream Investments Pty Ltd to allow the company to collect and analyse gas and water samples via the recommencement of pumping flow-back water for a limited period.

The Department authorises AGL Upstream Investments Pty Ltd to recommence pumping flow-back water at the Waukivory Pilot Project site in accordance with its current approval; and the following conditions:

1. Any flow-back water removed from the wells is stored in the previously approved above ground tank identified as AST2.
2. All pumping will cease when the level of water in the above ground tank reaches the freeboard level of 500mm from the top of the tank.
3. AGL Upstream Investments Pty Ltd will advise the Department and the EPA prior to commencing the proposed operations and upon the cessation of these operations.
4. AGL Upstream Investments Pty Ltd will undertake daily sampling of the water from each well and undertake analysis for BTEX and Hydrogen Sulphide for the duration of the pumping.
5. AGL Upstream Investments Pty Ltd will collect a sample of the gas upstream of the flare point each day when flaring occurs and undertake analysis for Hydrogen Sulphide.
6. AGL Upstream Investments Pty Ltd will undertake post flare sampling during flaring operations by:
 - a. Setting up receptor points at varying distances from the flare point as detailed in the attached diagram titled "WK12 Flare Location".
 - b. Use personal gas detectors, Annova gas detector, both with H₂S sensors and a Draeger flow tube and take sample readings.
 - c. Record daily readings in a field data sheet from the 3 units, including date, time and results from monitoring equipment, compass bearing of general wind direction, weather conditions and observations and
 - d. Include detailed metrology data from the AGL weather station.
7. AGL Upstream Investments Pty Ltd will deliver all samples collected in accordance with condition 4 & 5 above to a NATA approved laboratory within 24 hours of collecting the sample or, if the samples are collected on a weekend or public holiday, then the samples are to be delivered on the next business day.
8. AGL Upstream Investments Pty Ltd is to make a request to the NATA accredited laboratory that all samples are analysed by the NATA accredited laboratory within 24 hours of the laboratory receiving the sample where appropriate.

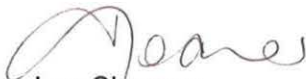
9. AGL Upstream Investments Pty Ltd will provide the results of the analysis of samples to the Department and EPA within 24 hours of the analysis being received by AGL.

Given the current investigation it is considered appropriate that AGL advise the relevant members of the community through appropriate media of the planned authorised works at the earliest opportunity from the receipt of this authorisation and in any event prior to the commencement of the works subject to approval under this letter of authorisation.

The Department advises that if the activity is carried out in accordance with parameters 1 through 9 above that AGL Upstream Investments Pty Ltd will not be in breach of the suspension notice issued by the Department dated the 19th February 2015.

This authorisation replaces the authorisation dated 29 April 2015.

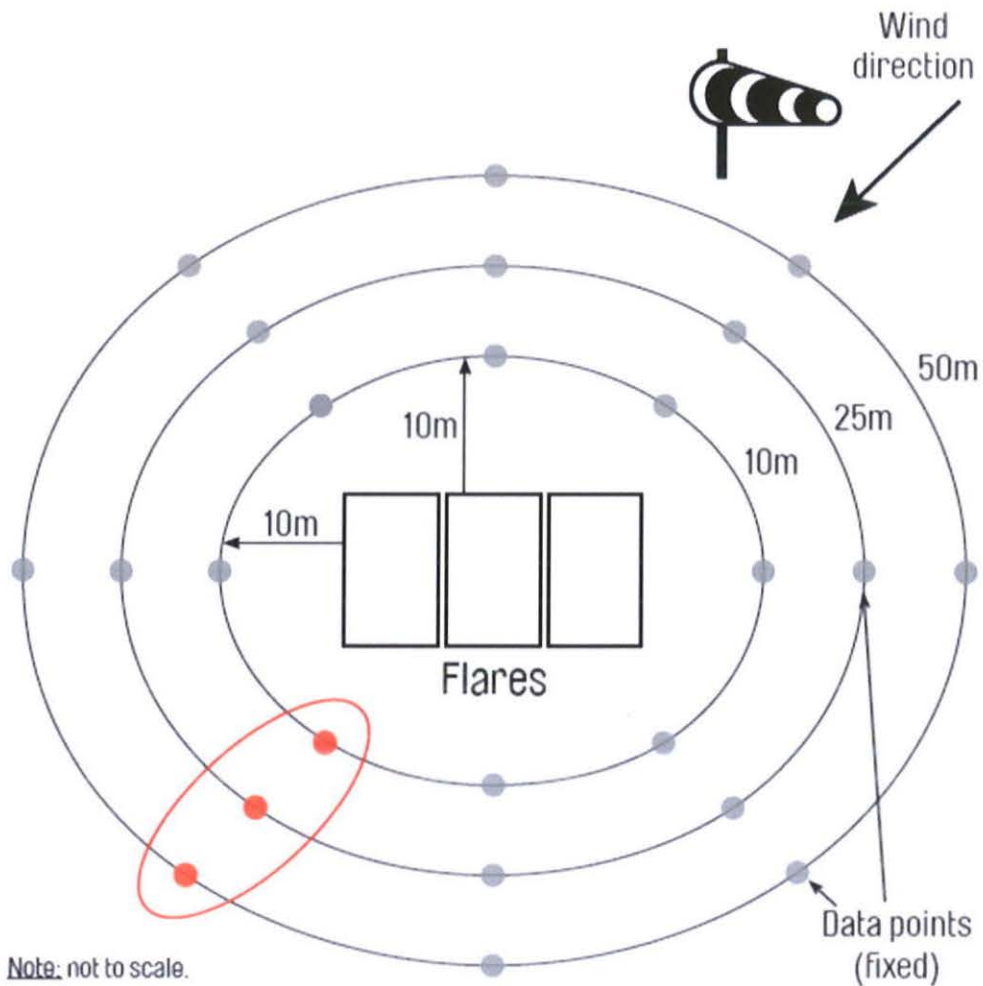
Yours sincerely



Lee Shearer
A/Executive Director
Compliance & Enforcement

Dated: 1 May 2015

WK12 flare location.



- > Wind direction detection points downwind (in red in diagram)
- > 3 Draeger tests daily
- > Points should be staked
- > Weather conditions should be recorded eg. wind (from station)
- > Record results daily