

Liddell Power Station – Fly Ash Dredging

Principal: **AGL Macquarie**

Location: **Muswellbrook, NSW**

Overview of Project

The works required the dredging of 2.5 million cubic metres of fly ash at the Liddell Power Station, Muswellbrook, NSW.

Scope of Works

AGL Macquarie engaged Neumann Contractors to dredge fly ash from a temporary storage facility to a permanent storage location at the Liddell Power Station.

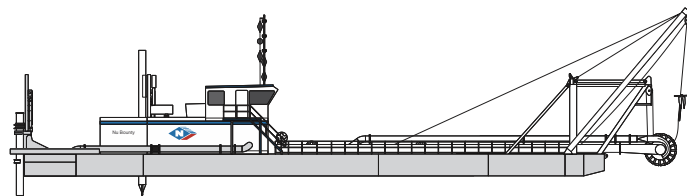
Neumann Dredging's designed and built 450mm cutter suction dredge the Nu Bounty was used for the project in conjunction with a 2,000 hp, Neumann made, 450mm booster station working seven days per week.

The flyash was pumped a maximum distance of 2.8km through a 630mm polyethylene pipeline and discharged at various locations along the pipeline's path utilising a system valve tap-sets. This pumping arrangement enabled the fly ash to be evenly distributed over the large deposition site.

A smaller Neumann built; 300mm booster pump was used to pump the supernatant water from the slurry back into the dredge pond for re-use.

Outcome

The project is ongoing and on target for the contractual completion date.



Nu Bounty Cutter Suction Dredge

Length (short/long):	33.4/41.30m
Nominal Production Rate:.....	650m ³ /hr
Total Power/Power at Pump:	1,454/1,044kW (1,950/1400 hp)
Pipeline Diameter:.....	450 mm
Maximum Digging Depth (short/long):	15/22 metres
Gross Weight (short/long):.....	220/240 Tonnes