



North Yard Construction News

What will happen on site between now and Christmas?

You may be aware that the preliminary works for the Devonport Energy from Waste (EfW) Combined Heat and Power (CHP) Facility are now complete. These preliminary works were detailed in the first construction newsletter and photographs can be viewed on our website at <http://www.mvvuk.co.uk>, in the SWDWP Devonport project area 'links and downloads' section (ILC Presentation June 2012).

Now that the foundations are starting to go in and our permanent site offices have been installed, there will be a noticeable increase in activity. We aim to carry out these works as considerably as possible to minimise disturbance and noise for residents.

The aerial view on the next page shows the footprint of the plant, indicating the area where most piling will take place.

The inset picture on the reverse of this newsletter shows a Continuous Flight Auger piling rig and the annotations indicate what each area of the finished building will be.



The acoustic fence along the new access road that will reduce noise disturbance as vehicles enter and leave the facility.



Damping down on site to minimise dust

Welcome to the second edition of North Yard Construction News

Dear Reader, Since our Construction Director, John Wade, wrote to you in February we at MVV have been busy behind the scenes as well as on site with the preliminary construction works. Now, having discharged the relevant planning conditions, we have started the main construction works. I have been employed as our Community Liaison Manager, which means you have a direct and local point of contact for enquiries and comments. The site is registered with the 'Considerate Constructors Scheme' and information about this scheme can be found at <http://www.ccscheme.org.uk/>

Between now and Christmas, work on site will be focused on piling and construction of foundations. Some concrete slabs will also be laid. In order to complete the piling in as short a time as possible it has been agreed that up to seven piling rigs can be used.

Since piling can be a noisy process, in order to minimise the impact on local residents, 'Continuous Flight Auger' rigs will be used for the majority of the piling. These are quieter rigs than those used during the test piling, carried out in December 2011, allowing us to use more of them so that piling may finish sooner, whilst remaining within permitted noise levels.

Additional measures are being taken to minimise disturbance to our neighbours. For example, some of the vehicles now make a quieter warning sound when they are reversing. During very dry weather,

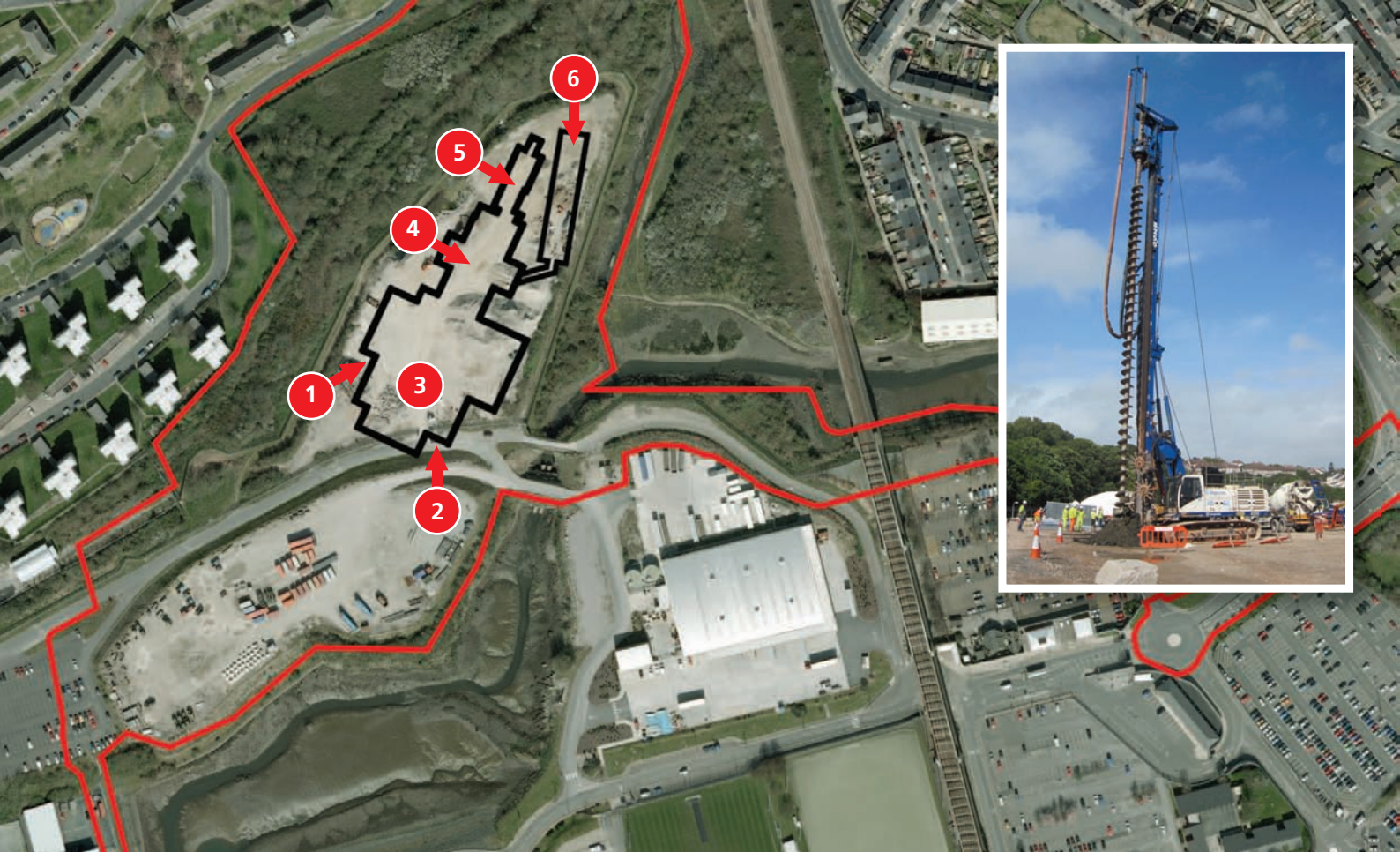
water is sprayed on the ground to reduce dust. Wheel wash facilities are also in place to prevent mud being taken from the site out onto the highway.

The aerial view on the reverse of this newsletter shows the footprint of the EfW CHP Facility, and the area in which most piling works will take place.

As always, we operate an 'open-door' policy and welcome your comments and questions. Full contact details are supplied at the end of this newsletter.

Kind regards,
Jane Ford,
Community Liaison
Manager.





1. Administration building and visitor centre

This is where members of the public and other visitors will come into the facility. The administration area will have offices staffed by MVV employees. The visitor centre will be open, by appointment, to the public, and site tours will start from here. It will also be available for community groups to use for meetings and functions, free of charge, by arrangement with our Community Liaison Manager.

2. Water treatment building

The water treatment plant treats mains water to produce the demineralised water needed for the boiler system. It also "polishes" the water returning to the facility from the Dockyard steam system, ready to be turned back into steam in the boiler. The equipment will be seen through a large window and will be lit up from dusk until 11pm along with the side of the facility facing away from Barne Barton. The amount of electricity needed for the lighting is the same as the amount of electricity generated by the solar panels on top of the tipping hall.

3. Tipping hall and waste bunker

The tipping hall and waste bunker will be enclosed so that waste arriving at the facility can be tipped into the waste bunker without releasing odours or litter to the surrounding environment. There will be five tipping bays and each will have a roller shutter that closes once the waste has been tipped. The waste bunker has the capacity to hold ten days worth of waste, in case the facility needs to be shut down for any reason.

4. Boiler house and turbine hall

Waste will be fed into the boiler by a crane operator. The furnace will reach temperatures up to 1300 °C and extra air will be injected to ensure that the carbon monoxide produced by the combustion process is converted to carbon dioxide. The turbine hall is where the high pressure steam is converted to electricity (up to 25 MW) and supplied to the Dockyard (up to 23.4 MW). Most of the electricity will be used by the Dockyard and any surplus will be exported to the National Grid via the Dockyard's existing connection.

5. Air Pollution Control (APC)

This is the system that removes potentially harmful substances from the flue gases after they have been used to heat the water to create steam and drive the turbine. We will use a process called Selective Non-Catalytic Reduction (SNCR), to remove nitrogen oxides, and also inject sodium bicarbonate (ie baking soda) to neutralise acidic gases. Additionally, we will inject activated carbon to trap pollutants such as dioxins. The final step will be to pass the flue gases through fabric filters. The emission levels will be reduced to the very stringent limits required by the Environmental Permit before being released to the atmosphere.

6. Air cooled condensers

After the steam has passed through the turbine generator and the energy extracted to drive the turbine it is passed to the air cooled condenser which is like a car radiator with large fans, where it is turned back into water before being returned to the boiler system. We have spent time and money ensuring that this will be one of the quietest and most efficient available.

How to get in touch

If you would like to speak to someone face to face and find out more about the project, you would be most welcome at our office in Scott Business Park:

Unit 10, Scott Business Park, Beacon Park Road, Plymouth PL2 2PQ.

Telephone: 01752 565412.

The office is open from 9am - 5pm on weekdays.

I can be contacted at the office or on my work mobile:

07876 135632 and my email address is: jane.ford@mvvuk.co.uk

Outside of hours, a message can be left either on the office answer machine or on my mobile.