Supporting Statement

Kenworthy Pumping Station

Proposed Pumping Station Kiosk Building

1. Background

MAN0385 Kenworthy Lane UID, Princess Parkway, is located in the Mersey South drainage area, which is approximately 6 miles from Manchester City centre and covers an area of 938 hectares. The drainage area has a residential population of just over 72,000, which mainly comprises the residential suburbs of Wythenshawe and Northenden. The drainage area drains to the Davyhulme WwTW. The existing Combined Sewer Overflow (CSO) MAN0385 is located off Kenworthy Lane, Northenden and discharges to the River Mersey. This CSO has been identified as an unsatisfactory intermittent discharge on aesthetic grounds.

There is an existing pumping station located in land bordered by Princess Parkway, the M60 Motorway and a slip road from the M60. The site of the proposed work is in land adjacent to the existing pumping station (NGR 382446, 390886).

Access to the site shall be taken using the existing access road from Princess Parkway to the Pumping Station.

2. Need

The scheme forms part of United Utilities (UU) AMP4 (Asset Management Plan 4) Programme. This is a major programme of work refurbishing and upgrading various UU assets across the region as required by the water industry regulator OFWAT (Office of Water Services), and the Environment Agency (EA), to be implemented between 2005 and 2010.

As a sewerage undertaker, UU is obligated to provide the appropriate facilities for the treatment of wastewater to the required standard by the Water Resources Act 1991 and the Urban Wastewater Treatment Regulations 1994.

The project is to be implemented by 31 March 2009.

3. Proposals

To provide the necessary improvements, UU are proposing to construct a new storm pumping station in land adjacent to the existing pumping station. Flows into this pumping station will be diverted from the storm wet well of the existing pumping station via 900mm diameter gravity pipework. There will be a new rectangular concrete valve chamber situated on the northern side of the existing access road. This chamber will house valves on the rising main and scavenger main pipework from the new pumping station.

Flows from the new storm pumping station will be pumped into the existing Davyhulme Sewer, which is the pass-forward sewer from the existing MAN0020 CSO upstream. The Dry Weather Flow pumps within the existing pumping station shall continue to operate as normal, whilst the storm pumps within the existing pumping station shall be de-commissioned.

A new steel control kiosk is to house the electrical power/instrumentation control panels. Security Fencing is to be erected around the new pumping station, kiosk and valve chamber.

The scope of the project is shown on drawing no.MAN0385/90018043/01/01/L1002D. Table 1 lists the proposed new structures detailing their external dimensions, materials and finish.

4. Planning Requirement

Planning Permission

This document is in support of the proposed development requiring planning permission under the Town & Country Planning Act 1990. These elements comprise:-

MCC (Motor Control Centre) Kiosk
A dark green GRP kiosk is proposed to house the electrical controls for the new Plant. This will be 6.3m x 2.8m x 3.2m high and will be located as shown on drawing MAN0385/90018043/00/97/L2007 B.

Permitted Development

The associated plant and machinery for the kiosks is permitted by virtue of the GPDO 1995 Part 16 Class A (e). These elements are illustrated on the attached plans and listed in Table 1.

5. Local Environment

Designated Areas

No statutory or non-statutory nature designations are present within the immediate vicinity.

Rights of Way

There are no footpaths affected by the permanent or temporary works.

Landscaping

A scheme for the site in terms of landscaping has previously been submitted as part of application ref: 085977/FO/2008/S2

6. Construction

Construction Programme/Timing

Construction is currently programmed to commence in October 2008, subject to planning permission, for a period of 32 weeks.

It is anticipated that construction will be limited to 06:00 – 22:00 (Mon-Fri) and Saturday, Sunday and Bank Holidays 08:00 to 18:00.

Traffic Management & Access

Existing Traffic Movements
The new pumping station will receive a monthly maintenance visit. On completion of the development there will be no change in operational traffic movements.

Construction Traffic
Vehicle movements will be intense during mobilisation on site for delivery of plant machinery/equipment but will level out during the course of the construction period.

Daily access will be required for site personnel

Contractors Compound

The contractor's compound will be located adjacent to the proposed development. It will comprise of cabins to accommodate welfare facilities and offices plus an area for materials storage.

Wheel washing facilities will be provided during the course of the construction period.

Excavated Material

Approximately 1250m3 of spoil will be generated through the construction phase. It is anticipated that surplus excavated material will be taken off site.

Samples of solid matter recovered from Made Ground and natural deposits at the MAN0385 (Kenworthy Lane Pumping Station) site were tested for the most commonly occurring chemical contaminants. In anticipation that the excavated materials may arise as waste, the detected concentrations were assessed using the CAT-WASTESOIL tool, developed by Atkins in partnership with the McArdle group. This classifies granular waste in accordance with the European Waste Catalogue. In this context, a number of samples from the area of the proposed pumping station were found to be hazardous (H14). Samples were also compared to WAC testing levels to enable materials to be classified for waste acceptance purposes. Most samples exceeded the limits for TOC for hazardous waste and therefore would need to be treated before being taken off site to any registered landfill site. The appointed contractor will carry out a more detailed contamination evaluation and risk assessment to satisfy themselves of their legal obligations.

7. Plans

Site Plan - MAN0385/90018043/00/97/L2008 A
Plan & Elevation - MAN0385/90018043/00/97/L2007 B

Table 1 – Proposed Structures

Structure	Planning Requirement	Max Height (m) Above Local Ground Level)	Depth (m)	Width (m)	Material & Finish
Storm Pumping Station	Permitted Development	Ground level	12m to sump	9.0m dia	Concrete Shaft Rings with steel manhole covers
Valve Chamber	Permitted Development	Ground level	5m	9m	Reinforced Concrete with steel access covers
MCC Control Kiosk	Planning Permission Required	3.2 m	2.8 m	6.3 m	Dark Green Steel
Access Road	Permitted Development	N/A			
None Traffic Areas		N/A			
Temporary Contractors Compound	Permitted Development	2.4 m ??			Temporary Fencing details to be confirmed
Permanent compound fencing	Planning Permission Required	2.4 m			Wire Mesh – Plastic Coated Dark Green – Securicor 3D or similar