



Planning Department
Havant Borough Council

By email to: Tina.Pickup@havant.gov.uk
planning.development@havant.gov.uk

Your ref
APP/23/00004

Our ref
BH101_102_20221216

Date
10th March 2023

Contact

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Email:
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Dear Sir or Madam,

Southern Water Services Limited – planning application for the drilling of 2no. test boreholes at the Bedhampton Mariners Cricket Club, Bidbury Lane, Havant, PO9 3JJ.

We write to you in respect of a planning application submission for the proposed drilling of 2 no. test boreholes at the Bedhampton Mariners Cricket Club grounds.

We have enclosed the following drawings to accompany this planning application:

Plan Title	Plan Reference
Location Plan	710166-SWS-XX-XX-DR-Z-00201 C03
BH101 Site Plan (Construction period only)	710166-SWS-XX-XX-DR-Z-00205 C03
BH102 Site Plan (Construction period only)	710166-SWS-XX-XX-DR-Z-00206 C03
BH101 Temporary Fencing (during the dynamic sampling period)	710166-SWS-XX-XX-DR-Z-03707 C03



BH102 Temporary Fencing (during the dynamic sampling period)	710166-SWS-XX-XX-DR-Z-03708 C03
BH101 Site Layout and Headworks Plan	710166-SWS-XX-XX-DR-Z-03701 C02
BH102 Site Layout and Headworks Plan	710166-SWS-XX-XX-DR-Z-03704 C02
BH101 Decommissioning Detail Plan	710166-SWS-XX-XX-DR-Z-03703 C02
BH102 Decommissioning Detail Plan	710166-SWS-XX-XX-DR-Z-03706 C02

Background

Southern Water is currently developing a strategic water resource project to provide a new sustainable water supply to customers in its Hampshire supply area. As a drought resilience scheme, the project will maintain essential supplies to customers whilst reducing reliance on abstractions from Hampshire's sensitive chalk streams during a drought scenario.

The project involves both a new water recycling plant in Havant, new underground water transfer pipelines between Budds Farm Wastewater Treatments Works, the proposed site for the water recycling plant, the new Havant Thicket Reservoir and our Otterbourne Water Supply Works and at some points along the pipeline we will need to install above ground plant such as break pressure tanks and intermediate pumping stations.

The test boreholes, which are the subject of this planning application, are needed as part of our overall ground investigations to provide information on ground gas and groundwater critical to the development of the design and alignment of the proposed pipeline tunnels. The boreholes can therefore only be sited within a narrow corridor. The proposed locations have been reviewed to ensure environmental impacts are avoided or mitigated to minimise any potential impact during the works.

The majority of our ground investigation boreholes are being drilled under Southern Water's statutory undertakers' permitted development rights, under the Town and Country Planning (General Permitted Development) Order 2015 (GPDO), Part 13, Class A(c):

- A. *'Development for the purposes of their undertaking by statutory undertakers for the supply of water or hydraulic power consisting of— (c) the provision of a building, plant, machinery or apparatus in, on, over or under land for the purpose of survey or investigation'.*

However, GPDO Class A(c) is conditioned to a maximum of 6 months from the commencement of development. The boreholes which are the subject of this planning application are required for a 12 month monitoring period and as such would require planning permission.

Description of Development

The boreholes will both have a width of 200mm. It is proposed to drill BH101 to a depth of 30 metres and BH102 to 50 metres. Only a small above ground headworks will remain in place for the 12 month monitoring period.

Following the construction phase, as detailed below, the working compounds will be greatly reduced in size limited to the minimal area containing the headworks. The 2 boreholes will be enclosed securely with palisade fencing to a minimal 2.5m by 2.5m area for the duration of the monitoring and sampling period (12 months), to ensure the park and sports grounds can continue to be used fully throughout the monitoring period.

Following the 12 month monitoring period, both boreholes will be filled in and the land reinstated to its original condition and all fencing will be removed. (see Decommissioning Detail Plans).

Construction Timescales and Drilling Methodology

The combined construction phase of the boreholes will take a maximum of 8 weeks which includes 1 week at the end of the 12 month monitoring period to demobilise and completely restore the sites.

The two proposed borehole construction compounds measuring 15m by 15m will be fenced off to enable the boreholes to be safely drilled (see the Site Plans (Construction period) plans 710166-SWS-XX-XX-DR-Z-00205 and 710166-SWS-XX-XX-DR-Z-00206). The construction compounds will be accessed via a Trakmat route, which will be laid to protect the soft ground and tree roots from compaction.

Once construction and drilling has been completed for each borehole, the Trakmat will be completely removed, and the compounds will be reduced to 2.5m by 2.5m for the 12 month monitoring period (see Temporary Fencing Plans 710166-SWS-XX-XX-DR-Z-03707 and 710166-SWS-XX-XX-DR-Z-03708).

Construction will focus on one borehole at a time. BH102 will be the first borehole to be mobilised and constructed and will take approximately 3 weeks to drill. Once the drilling is completed, the construction compound for BH102 will be reduced in size to a small palisade enclosure around the headworks for the monitoring period, and the Trakmat will be removed from the north playing field. The BH101 construction compound will then be mobilised in the southern playing field and the drilling will take approximately 3 weeks. As soon as BH101 has been drilled, the construction compound will also be reduced down to the secure headworks enclosure and the Trakmat will be removed. These durations are indicative and subject to change depending on ground conditions encountered.

On completion of the 12 month monitoring period, the boreholes would be filled in and the land will be fully restored to its previous condition (see Decommissioning Detail Plans 710166-SWS-XX-XX-DR-Z-03703 and 710166-SWS-XX-XX-DR-Z-03706).

Table 1 sets out the proposed construction vehicles to be used during mobilisation, construction and demobilisation of the sites.

Table 1. Construction Timescales and Vehicles Visits

Construction Phase	Total vehicle visits at each phase	Duration (days/weeks)
Mobilisation period	4 lorry loads to deliver the Tackmat and a forklift	8 days
	1 rigid lorry	
	2 light vans 4x4	
	2 Tractor trailer unit (water delivery)	



Main Construction Period	2 light vans (4x4) daily	6 weeks (3 weeks per borehole)
	1 car daily	
	Tractor trailer unit (water delivery) 2 per week	
Demobilisation period	(as per mobilisation period)	8 days

During the 12 month monitoring period, monthly visits will be made by 1 or 2 technicians arriving by car or small van to collect the data and take water samples from the headworks.

Added security measures will be put in place at each borehole compound in the form of 360-degree 24 hour monitored security tripod to ensure security of the works sites.

Noise Levels – Construction

Construction will be carried out using a rotary core drilling machine complete with associated equipment. The drilling rig will be situated on protective Trakmat to protect the existing ground conditions.

The drill rig will be fully encapsulated with secure heras fencing complete with acoustic sound barriers (1.8m in height) attached to the heras fence panels to reduce noise levels.

The drilling equipment used will produce a peak noise level of 100.8dB, this is reduced to 80dB at 1m to the front of the equipment and 80dB at 3m from the rear of the equipment.

Noise Levels – during the monitoring period

Monitoring after installation of the temporary above ground headworks (the monitoring period), will not involve any machinery or noise. However, decommissioning of the BH after the monitoring will involve noise levels similar to those experienced during installation of the borehole.

Public access to footpaths at the car park during construction and sampling and monitoring periods



The only restricted areas will be the construction compounds and later the smaller monitoring compounds. At the end of the 12 month monitoring period, the sites will be completely restored and the compounds entirely removed.

The vehicle turning and delivery area shown in the car park will also have a temporary restriction whilst deliveries are made. Deliveries would typically be made during weekday mornings when the car park has minimal public occupancy. Approximately 3 parking spaces will be hoarded off with heras fencing for a maximum of 8 days during mobilisation and then 8 days for demobilisation. A forklift truck and banksman will be utilised to transport equipment along the Trakmat to the construction compounds. The parking spaces will remain open at all other times.

The site lies adjacent to two public rights of way which traverse the park (see Location Plan 710166-SWS-XX-XX-DR-Z-00201 C02). The Trakmat will be laid across the public rights of way, however these will not be closed to the public and can be safely crossed by all users of the park at all times.

Site and Surroundings

Both sites are located within the public open space associated with the Bedhampton Cricket Ground. There are two football fields within the Cricket Ground. It will be necessary to route the protective Trakmat along the western edge of both pitches, however only one football pitch will be impacted at any time. Following construction, the monitoring compounds would be located away from the football pitches and the Trakmat would be completely removed.

BH101

The borehole and construction compound for BH101 are proposed to be located to the western edge of the playing field to the north of Bidbury Lane. The construction compound appears to partially intersect the southern football pitch to the west. The site is screened from Bidbury Lane by a mature belt of trees.

There is a public bench in close proximity to the west of the borehole. During the 3 week construction period of BH101, this bench will be closed to the public, however will be fully accessible once the compound has been reduced to the monitoring compound.



St Thomas' Church and 2 residential properties lie 30 metres to the west. There is an allotments site adjacent to the south of Bidbury Lane. There are residential properties 140 metres to the east of the playing field, along King's Croft Lane.

BH102

The borehole and construction compound for BH102 is proposed to be located to the northeast corner of the Bedhampton Cricket Ground and will be the first borehole to be drilled. A residential property lies adjacent to the north of the site area and a number of additional residential properties associated with Bedhampton Road and King's Croft Lane to the north and East respectively.

During construction, the Trakmat route leading to the BH102 compound would partially intersect the northern football pitch at the northwest corner. The construction compound would intersect the Cricket Ground, however once drilling has been completed (approximately 3 weeks), the compound can be reduced to a minimal area to enable the Cricket Ground to continue to be used for sport and recreation throughout the monitoring period.

Access

Both BH101 and 102 are accessed via the existing access road from Bidbury Lane. As both sites are located on the playing fields, trakmat will be laid to extend the road access to each site compound to aid access by the two small 4x4 vans and a forklift truck.

A 5m x 5m area of the park's car park would be used during mobilisation and demobilisation for the delivery vehicles, listed in Table 1, to make deliveries and turn. Deliveries would be taken onward by forklift truck to each of the construction compounds using a safety banksman as it traverses the Trakmat. This is marked on the plans within the existing car parking area, approximately 3 car parking spaces will be closed for 2 periods of up to 8 days during mobilisation and demobilisation only.

Biodiversity and Tree Protection

A qualified Southern Water Ecologist has conducted several site walkovers to assess the borehole sites and ensure that no trees or hedges will be affected by the proposed work.



A preliminary arboricultural survey (BS5837 compliant) has also been carried out to identify the root protection areas (RPA) (see the Preliminary Arboricultural Assessment Report, January 2023, the Location and Site Layout plans). The arboricultural survey identified 2no. category B tree RPAs which the temporary construction compound areas would marginally intersect. Trakmat would be used throughout the compound areas to prevent ground compaction and both boreholes are located outside of any RPAs. The Trakmat route leading to BH102 intersects 2no. category A and 1no. category B tree RPAs. The north route has been chosen to minimise the impact on the north playing field and the use of Trakmat would minimise the risk of soil compaction and impact to RPAs.

Environmental and Health considerations

To minimise disruption to nearby residents, the following measures have been implemented:

Working hours will be at the least sensitive times (08:00 to 17:00 Monday to Friday) only.

The boreholes will be micro-sited where possible to maximise distance to nearest residential properties, this has been carefully balanced with minimising impacts on the public open space and ensuring we remain within the narrow corridor of our required ground investigation area.

Temporary screening (ECHO Barrier ECHO H8) will be introduced using panels fixed to site boundary fencing. This is anticipated to fully screen the main noise sources (the pump and rig motor) as these are at relatively low height.

Residents and other stakeholders have been notified in advance of the nature and duration of the proposed works through a letter drop. This includes details of activities that may result in more noticeable periods of noise and vibration and details of the measures being used to minimise disturbance.

We wish to emphasise the small scale and temporary nature of these works. At the end of the 12 month monitoring period, the sites will be completely demobilised and the land will be fully restored to its previous condition.

We trust that this letter is fully explanatory, however, please do not hesitate to contact me if you have any queries or would like to discuss any issues raised in this letter.

Yours sincerely,



Lawrence Blyth

Town and Country Planner