

# **VEOLIA WATER PROJECTS LIMITED**

## **WATER RESOURCES MANAGEMENT PLAN**

### **APPENDIX 7 – ENVIRONMENT**

#### **INTRODUCTION**

VWP through its actions has an impact on the environment and this needs to be fully documented and understood. One core element of the WRMP is to look for opportunities for environmental improvement, rather than sustainability alone.

Biodiversity and Invasive Non-Native Species (INNS) have been indicated as a concern by Natural England and the Environment Agency. These have been communicated via the Water Industry National Environmental Programme (WINEP).

There are four items of consideration as part of WINEP:

- Impact on Nine Miles River
- Impact on Pilhill Brook
- Invasive Non-Native Species (INNS)
- Biodiversity

As part of general housekeeping a system has been put in place by VWP to constantly review health and safety aspects during site visits. This has been extended to include environmental observations.

Environmental awareness training has been delivered to operational staff.

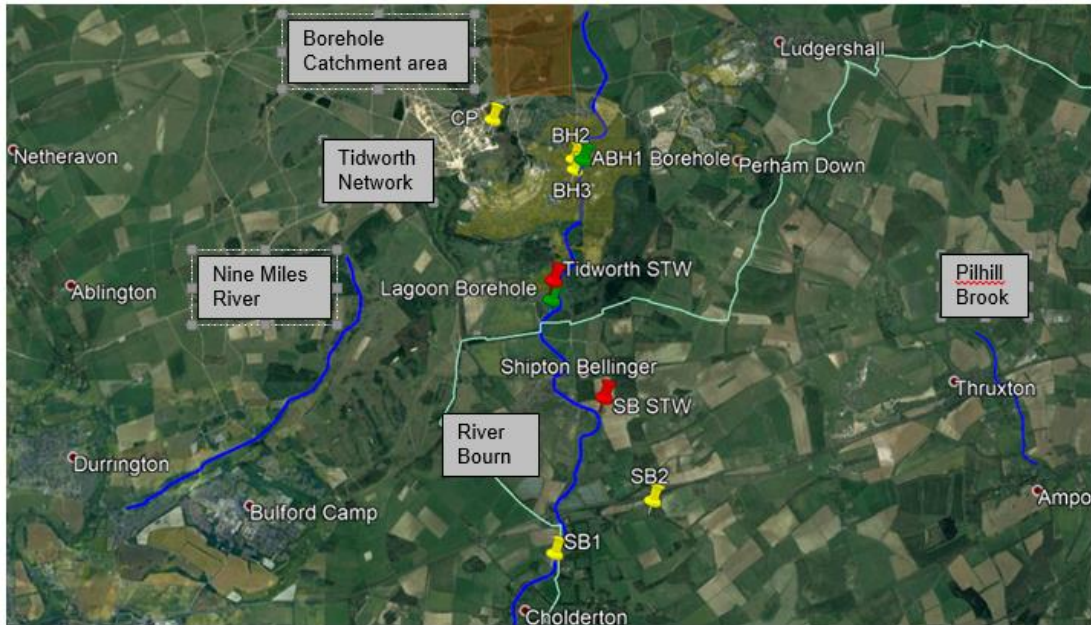
There are no DWI drinking water protected areas local to Tidworth.

VWP have also produced a Water Industry Strategic Environmental Requirement (WISER) report which covers all impacts in relation to the operations of VWP. Consideration is given to the impact on the full water cycle, from collection from the catchment through to discharge at Tidworth STW's.

## 1 WATER INDUSTRY NATIONAL ENVIRONMENTAL PROGRAMME

Ground Water modelling is already proceeding (reference Appendix 2 – Resilience) with VWP providing information for use in the Wessex ground water model which forms part of the Salisbury Hydrology project.

An overview of the layout of VWP activities and the surrounding ground water features is shown below:



### 1.1 Nine Miles River and Pilhill Brook

This work will result in a greater understanding of the impact of the MoD, Wessex Water, Southern Water and VWP on Nine Miles River and Pilhill Brook.

### 1.2 River Bourne

As a side product of the ongoing investigation the analysis of the ground water model will also indicate the impact on the River Bourne. The River Bourne is not included in VWP WINEP projects, but it is good practice to gain an understanding of the overall impact in the Salisbury plain.

The current VWP operational strategy is to minimise the use of Chalpit (CP) and instead use BH2 and BH3. This reduces the impact on Nine Miles river to the west, but does increase the impact on Pilhill Brook situated to the east.

### **1.3 Biodiversity and Invasive Non-Native Species (INNS)**

VWP have an action to complete an Investigate / catchment measures specification form in line with the National Environment and Rural Communities Act 2006 (NERC act).

Veolia Corporate have a dedicated team that audits the environmental impact of Veolia operations. Veolia operate a large number of commercial waste collection, transfer and recycling sites.

Efforts are in hand to organise an environmental audit during which the NERC forms can be completed to assist in moving forward these WINEP items. An audit has been estimated to cost 600 GBP and is delivered by an authorised contractor.

It is proposed to complete this action by end of Quarter 1 of 2019 as part of the planned audit programme. The work will also involve duty of care for the transfer and disposal of waste products.

## **2 WATER INDUSTRY STRATEGIC ENVIRONMENTAL REQUIREMENTS**

WISER considers:

- How company activities map to WISER expectations
- How strategies and investment will eliminate serious pollution and meet compliance in terms of permits and licences
- How VWP will to the best of its ability deliver improvements in to the environment in line with WISER
- How this aligns with the WRMP
- How VWP will improve resilience as a result of its investment
- Innovation and 'partnership working' as the business plan is implemented
- Example of activities that move forward the strategy in line with WISER

A copy of the WISER report will be provided with the WRMP to assist in cross referencing of both documents. The contents of the WISER document are also included in the WRMP content list to further aid with clarity.

### 3. NATIONAL ENVIRONMENT AND RURAL COMMUNITIES ACT

The Investigate / catchment measures specification form provided by the EA and Nature England will assist in meeting the requirements of this act.

The form includes the following sections:

- Details of work to be carried out
- Catchment measure / investigation objective
- Details of short term activities (<2 years)
- Details of long term activities (>2 years)
- Options the company has considered
- Reasons for choosing the preferred option
- Timescales for delivery
- Details of measurement of benefit and outcome
- Success measures
- Other details

The aim is to complete the forms in relation to INNS and Biodiversity by the end of February 2019. This action is included in the WRMP implementation plan (refer to Appendix 8) and Plan of Action at the end of this Appendix.

This assessment includes the following sites (some basic information is included to help with scoping of the environmental audit)

Site	Description of landholding	Area of Site (m2)
<b>Tidworth Office</b>	The grounds around the office including access and car park area.	1,300
<b>Tidworth STW's</b>	STW's site and surrounding grounds. Secure fenced off area	15,600
<b>Tidworth Lagoons</b>	Heavily wooded	25,000
<b>Clarendon</b>	Reservoir with landscaping	3,570
<b>Borehole 2</b>	Borehole building and surrounding grounds	2,400
<b>Borehole 3</b>	Small borehole building with little land	400
<b>Chalkpit</b>	Borehole building and surrounding grounds. Remote area	3,575
<b>Mathew Tank</b>	Above ground tank with some surrounding land.	2,700

## 4 CONCLUSIONS

Ground water modelling is under way to consider the combined impact of MoD, Wessex Water, Southern Water and VWP (refer to Appendix 3 resilience for further details). This will cover the WINEP entries relating to Pilhill Brook and Nine Miles River as well as considering side effect on the River Bourne.

VWP already operate Boreholes 2 and 3 in preference to Chalkpit to minimise the impact on Nine Miles River. The current strategy favours Nine Miles River (the home of crested newts) over Pilhill Brook (which feeds a trout farm near Andover).

The NERC forms in relation to INNS and Biodiversity have yet to be completed (refer to section 3 above for further detail).

A WISER report was completed by VWP and is available with the WRMP documentation for reference.

## 5 RECOMMENDATIONS

The NERC forms in relation to INNS and Biodiversity will be completed by the end of February 2019. This action is included in the WRMP implementation plan (refer to Appendix 8) and Plan of Action at the end of this Appendix. This will involve a Veolia environmental audit costing approximately 600 GBP.

For completeness the plan of action below also includes information on the programme for Ground Water modelling and confirmation that the climate change methodology is appropriate.

## 6 PLAN OF ACTION

S/N	Element of Work	Pre S/N Req	2019				2020				2121				2022				2023			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
6	Ground Water Data to Model	-																				
7	MoD Data added to GW Model	6																				
8	Southern Water GW Analysis	7																				
9	Wessex and MoD Analysis	8																				
10	GW modelling for all complete	9																				
12	Climate Change Methodology	-																				
24	NERC Enviromental Audit	-																				