

## PRIVATE WATER ENQUIRIES

Re: **Bonadventure, Kimbolton, Leominster, HR6 0EX**

1. Please confirm that there is a fee simple grant to supply both from its source and the pipe leading from any other land to the property.
2. Is the supply shared with others? If so, please provide full details of all properties using the supply, and the details of any organisation overseeing the arrangements.
3. Do any others contribute towards the maintenance of the supply? If so, please provide full details.
4. Is there a good supply of water to the property for all purposes?
5. Has the supply ever failed or has the source ever dried up?
6. Is the supply system in good working order? Please provide all recent tests and service documentation.
7. Is there any ram or any electrical motor in the supply system? If so please give details.
8. Are any pipes laid to the minimum agricultural depth?
9. Please confirm that the quality of the water is fit for human consumption and that its purity complies with the Local Authority Standards. Please provide a recent water test report.
10. Is there a licence to extract water? If so, please supply a copy.
11. Is the water supply registered with the Local Authority/Water Inspectorate? If so, please provide full details.
12. Please supply a plan showing the approximate location of the source, pipework, tanks, reservoirs, treatment plants etc.

23 April 2021

Lloyds Cooper LLP

- 1-3. See Water Easment agreement
4. Ample & sufficient supply
5. The system has never failed to date
6. See attached
7. At source - Docklaw Slade
8. Yes
9. Attached
- 10-11 See water easment agreement
- 12 Attached

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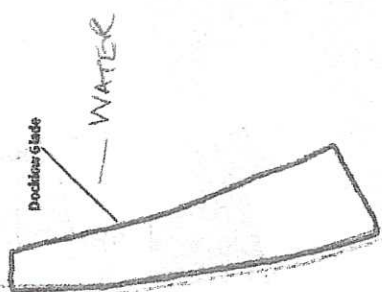
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# Directions

Kimbolton

Worcester Rd

A49 Stockton

Proceed from Ludlow on the A49 south towards Leominster, travel through the village of Ashton and after approximately further a mile take the turning on your left posted Kimbolton and Tenbury Wells, turn immediately right and after approximately 3/4 mile the property will be found on the left hand side.

Ludlow Rd



Mrs Margaret Morris  
Bonadventure  
Kimbolton  
Leominster  
Herefordshire  
HR6 0EX

27<sup>th</sup> April 2021

Dear Mrs Morris,

**Re: Water Analysis Results**

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Please find enclosed the results of the water analysis test carried out on the sample taken by you from Bonadventure on the 15<sup>th</sup> April 2021.

As you can see from the 'Limit' column the chemistry results are satisfactory, however the water has failed the microbiological tests and we would recommend the installation of an Ultra Violet disinfection unit to clean the water prior to use. I have enclosed some information on the Saphir range of UV units which we can supply and install.

The results also indicate that the water is very hard.

If you have any queries please do not hesitate to contact the office.

Yours sincerely,



**Ruth Basten**  
**Administrator**

# Report Summary



**Mr Adrian Dalley  
WB & AD Morgan Ltd  
Presteigne Industrial Estate  
Presteigne  
Powys  
LD8 2UF**

Date of Issue: **23 April 2021**

Report Number: **COV/2119808/2021**

Issue **1**

This issue replaces  
all previous issues

Number of Samples  
included in this report **1**

Job Received: **15 April 2021**

Number of Test Results  
included in this report **30**

Analysis Commenced: **15 April 2021**

Signed:

Name: **B. Paige**

Date: **23 April 2021**

Title: **Microbiology Team Leader**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This test report is not a statement of conformity to any specification or standard.

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**ALS Environmental Ltd**

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# Certificate of Analysis



Report Number: **COV/2119808/2021**

Issue **1**

Laboratory Number **20337673**

Sample **1** of **1**

Sample Source: **WB & AD Morgan Ltd**

Sample Point Description: **WB & AD Morgan**

Sample Description: **WAD217 Morris Bonadventure Kimbolton Borehole**

Sample Matrix: **Drinking Water**

Sample Date: **15 April 2021**

Sample Received

**15 April 2021**

Analysis Complete:

**23 April 2021**

Test Description	Result	Units	Limit	Accreditation	Method
Hydrogen ion (pH)	7.47	pH units	6.5 to 9.5	Y Wak	WPC08/40
Conductivity	547	uS/cm	2500	Y Wak	WPC07/40
Turbidity	<0.13	NTU	4	Y Wak	WPC06/40
Colour	<2.9	mg/l Pt/Co	20	Y Wak	WPC13/40
Ammonium ammonia+ammonium ion	<0.008	mg/l	0.5	Y Wak	WPC64
Nitrite as NO <sub>2</sub>	<0.002	mg/l	0.5	Y Wak	WPC64
Nitrate as NO <sub>3</sub>	19.4	mg/l	50	Y Wak	WPC64
Chloride as Cl	21.9	mg/l	250	Y Wak	WPC64
Aluminium, Total as Al	<14.5	ug/l	200	Y Wak	WPC12/49
Calcium, Total as Ca	86.7	mg/l		Y Wak	WPC12/49
Iron, Total as Fe	<5.23	ug/l	200	Y Wak	WPC12/49
Magnesium, Total as Mg	19.5	mg/l		Y Wak	WPC12/49
Manganese, Total as Mn	<0.85	ug/l	50	Y Wak	WPC12/49
Potassium, Total as K	3.86	mg/l		Y Wak	WPC12/49
Sodium, Total as Na	12.3	mg/l	200	Y Wak	WPC12/49
Arsenic, Total as As	<0.15	ug/l	10	Y Wak	WPC15
Hardness, Total as CaCO <sub>3</sub>	297	mg/l		Y Wak	WPC12/49
Total Oxidised Nitrogen as NO <sub>3</sub>	19.38	mg/l	50	Y Wak	WPC64
Lead, Total as Pb	0.20	ug/l	10	Y Wak	WPC15
Zinc, Total as Zn	3.81	ug/l		Y Wak	WPC15
Copper, Total as Cu	0.0133	mg/l	2	Y Wak	WPC15
Sulphur, Total as SO <sub>4</sub>	9.25	mg/l	250	Y Wak	WPC12/49
Alkalinity as CaCO <sub>3</sub>	262.2	mg/l		Y Wak	WPC64
Alkalinity as HCO <sub>3</sub>	320	mg/l		Y Wak	WPC64
Total Coliforms confirmed	3	cfu/100ml	0	Y Cov	W10
Escherichia coli confirmed	0	cfu/100ml	0	Y Cov	W10
Total Coliform presumpt	3	cfu/100ml	0	Y Cov	W10
E.coli presumptive	0	cfu/100ml	0	Y Cov	W10
TVC 22C 3 day	14	cfu/ml		Y Cov	W1
TVC 37C 2 day	0	cfu/ml		Y Cov	W1

Analyst Comments for 20337673:

Total coliforms identified as Klebsiella oxytoca

**ALS Environmental Ltd**

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This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:



Name: **B. Paige**

Date: **23 April 2021**

Title: **Microbiology Team Leader**

## Water Analysis

C 2119808 WB & AD Morgan Ltd: WAD217 Bonadventure Kimbolton			20337673
Laboratory Number	WAD217 Morris Bonadventure Kimbolton Borehole		
Customer Sample Ref.	15/04/2021 08:30:00		
Sample Date/Time	Drinking Water		
Sample Matrix			
TVC 37C 2 day	W1	cfu/ml	0
TVC 22C 3 day	W1	cfu/ml	14
Total Coliform presumpt	W10	cfu/100ml	3
Total Coliforms confirmed	W10	cfu/100ml	3
E.coli presumptive	W10	cfu/100ml	0
Escherichia coli confirmed	W10	cfu/100ml	0
Aluminium, Total as Al	WPC12/49	ug/l	<14.5
Calcium, Total as Ca	WPC12/49	mg/l	86.7
Iron, Total as Fe	WPC12/49	ug/l	<5.23
Magnesium, Total as Mg	WPC12/49	mg/l	19.5
Arsenic, Total as As	WPC15	ug/l	<0.15
Manganese, Total as Mn	WPC12/49	ug/l	<0.85
Potassium, Total as K	WPC12/49	mg/l	3.86
Copper, Total as Cu	WPC15	mg/l	0.0133
Sodium, Total as Na	WPC12/49	mg/l	12.3
Lead, Total as Pb	WPC15	ug/l	0.2
Zinc, Total as Zn	WPC15	ug/l	3.81
Hydrogen ion (pH)	WPC08/40	pH units	7.47
Conductivity	WPC07/40	uS/cm	547
Turbidity	WPC06/40	NTU	<0.13
Colour	WPC13/40	mg/l Pt/Co	<2.9
Ammonium ammonia+ammonium ion	WPC64	mg/l	<0.008
Nitrite as NO2	WPC64	mg/l	<0.002
Nitrate as NO3	WPC64	mg/l	19.4
Chloride as Cl	WPC64	mg/l	21.9
Total Oxidised Nitrogen as NO3	WPC64	mg/l	19.38
Alkalinity as CaCO3	WPC64	mg/l	262.2
Alkalinity as HCO3	WPC64	mg/l	320
Hardness, Total as CaCO3	WPC12/49	mg/l	297
Sulphur, Total as SO4	WPC12/49	mg/l	9.25

## Key

N/S - Not Scheduled

I/S - Insufficient Sample

To Follow - analysis incomplete (interim reports only)



**Presenting the new DaRo UV Systems Saphir UV water disinfection system.**

The Saphir system is a compact, economical UV system that is designed with the consumer in mind. The Saphir system utilises commonplace single ended low pressure UV lamp technology, thus making the system not only economical for energy running costs, but also for replacement UV lamps. The single ended UV lamp also makes servicing the equipment very simple.

DaRo UV Systems are specialists in ultraviolet disinfection and have been manufacturing systems for over 25 years.



**STANDARD FEATURES**

- Water Resistant power control module (IP55)
- Long life / High Reliability UV Lamp
- Minimum 10 Bar Working Pressure
- Simple To Install
- Lamp On Indicator
- Simple To Service
- Electropolished Chamber
- Commonplace UV Lamps

**OPTIONS**

- Lamp / Electrical Failure Indicator
- UV Lamp Status Indicator

**PERFORMANCE**

- All systems comply with international UV dose standards.
- All units are designed to meet standards even at end of lamp life.

**ECONOMICAL**

- Very low running costs – less than 5p per 24-hour period.
- Utilising commonplace UV Lamps.
- Designed for ease of installation and maintenance.

**DaRo**  
UV SYSTEMS LTD

**EXPERTISE**

- Decades of experience in design and manufacture of UV disinfection systems
- Wealth of water treatment knowledge
- We are happy to help choose the correct systems to meet your requirements

**QUALITY**

- Products are designed, manufactured and tested in our modern manufacturing facilities in the UK
- Products are manufactured and tested in accordance with BSEN: ISO9001

**APPROVED**

- Our technology is a proven method of disinfection, approved by health specialists



**SAPHIR**



# ULTRA VIOLET WATER DISINFECTION SYSTEMS

## CHOOSING YOUR SYSTEM

The following table gives performance details on the Saphir range. To choose the correct unit simply match the application against the unit required. If in doubt, please contact your local stockist or our head office

Type	Flow rate* 30mJ/cm <sup>2</sup>	Flow rate* 40mJ/cm <sup>2</sup>	Connection	UV lamp	Typical Application	Lamp life	Construction	Power supply	Chamber length
Saphir 1	18 L/min	13.5 L/min	3/4" male bsp thread	GER15SE	Small dwelling	8760 hours (Approx 1 year)	304 SS	240v 50hz single phase	405mm
Saphir 2	25.5 L/min	19 L/min	3/4" male bsp thread	GER25SE	Whole house (family home)	8760 hours (Approx 1 year)	304 SS	240v 50hz single phase	554mm
Saphir 4	60 L/min	45 L/min	1" male bsp thread	GER36SE	Large dwelling	8760 hours (Approx 1 year)	304 SS	240v 50hz single phase	962mm
Saphir 7	90 L/min	66.5 L/min	1" male bsp thread	GER36SEXO	Multiple use (guest house)	8760 hours (Approx 1 year)	304 SS	240v 50hz single phase	962mm

\* Transmission = 98% per 1 cm at end of lamp life

## STAINLESS STEEL

Our stainless steel chambers have over 25 years of proven reliability. Our extensive range of 304 stainless steel chambers are designed to meet the stringent requirements of industry.

All units use high efficiency lamps, requiring only annual replacement.

## FILTRATION

It is important that sediment in the water does not obstruct the UV light. We strongly advise that a 5-micron sediment pre filter is fitted before the chamber to remove contamination. DaRo UV systems have an extensive range of compatible filter units in stock to match the UV chambers capacity. We will be pleased to advise when choosing a unit and propose corrective measures for other water problems

## LARGER UNITS

DaRo UV Systems can offer a range of larger standard units. Our expertise in design and manufacture enables us to tailor systems to specific site situations. The systems that we have manufactured are in regular use in a wide range of applications, from vending machines to municipal drinking water treatment.

## DATA SHEETS

DaRo UV Systems strive to keep abreast of new developments in disinfection. Further datasheet information on specific applications is available, please contact us for further details.



## STOCKIST

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 Fax: 01544 267981  
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